

# Aftermarket Catalog



imagination at work

# Aftermarket Catalog Quick Section Index

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This catalog contains replacement parts, retrofits, accessories, and older generation products. For current generation products, please see the GE BuyLog® or Control Catalog.

For more information please visit:  
[www.geelectrical.com](http://www.geelectrical.com)



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# For more than a century...



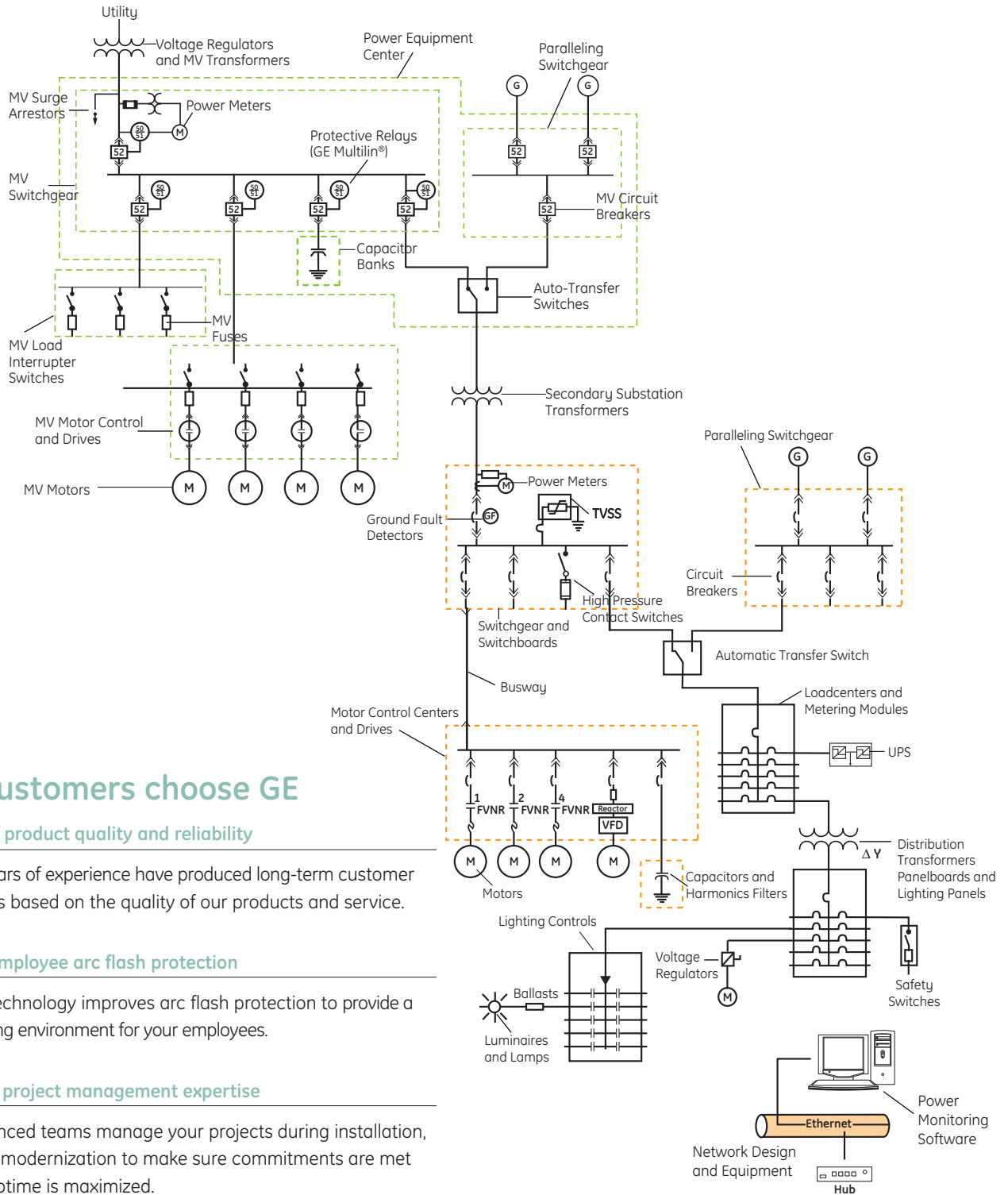
GE has designed, built, installed and serviced the electrical distribution equipment that keeps industrial operations powered and productive.

**Today**, our products reach from the substation to the power panel, including transformers, low and medium voltage switchgear and motor control, bus duct and power backup. They meet the needs of manufacturers, processors and utilities of every kind, and they include the largest installed base of power circuit breakers in North America.

**You'll find innovation** at every stage in our history, and dependability at every step. Expect more advances, even greater reliability and a constantly rising level of service as time goes by.

1882	1886	1894	1915	1918	1929	1933	1950
First arc blast arrester	First commercially practical U.S. transformer	First high voltage, oil immersed switch/circuit breaker	First full voltage magnetic starter	First metal-clad switchgear introduced for outdoor switching stations	First major application of electronic control	First variable speed AC motor control	First variable speed DC drives using magnetics





## Why customers choose GE

### A history of product quality and reliability

Over 100 years of experience have produced long-term customer relationships based on the quality of our products and service.

### Improved employee arc flash protection

Our latest technology improves arc flash protection to provide a better working environment for your employees.

### Full service project management expertise

Our experienced teams manage your projects during installation, service and modernization to make sure commitments are met and plant uptime is maximized.

1968

First 3-phase block style overload starters

1969

First adjustable speed AC drive with solid state inverter technology

1995

First open power management system - PMCS

1998

WavePro breaker and AKD-10 switchgear introduced

1999

First Internet energy monitor - ener.ge 2001

2005

Entellisys low-voltage switchgear introduced

2008

EntelliGuard G power circuit breakers and trip units - selectivity and arc flash performance in one trip unit



## Services and spare parts for industrial facilities



### Spare parts

For a full range of circuit breaker and switchgear spare parts, we have partnered with Parts Super Center to meet your needs. PSC can be contacted by calling:

**1-800-341-1010 or by visiting their web site at [www.partssupercenter.com](http://www.partssupercenter.com).**

### Contractual agreements

Contractual agreements offer benefits that go beyond a simple purchase. Beyond the outage support and engineering services available on a time-spent basis, a contract brings you an Outage Excellence program led by an on-site Contract Performance Manager (CPM) who integrates parts, services and repairs on a real-time basis. You also enjoy the predictable cash flows that come with a stated cost. Ranging from basic to comprehensive, such agreements may include:

#### Maintenance Management Program

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- Pre-determined pricing
- Contract Performance Manager (optional)
- Pre-negotiated escalation rate

#### Contractual Service Agreement

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- Maintenance interval risk
- Parts life risk
- Extended performance guarantees
- Contract Performance Manager
- Unscheduled maintenance
- Pre-negotiated escalation rate

#### Operation & Maintenance Solution

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- Fixed price, including major maintenance
- Cost plus, with fixed price major maintenance on turbines
- Cost plus, with transactional maintenance
- Management oversight services
- Maintenance services including CMMS start-up
- Mobilization, staffing, training, start-up and commissioning services





## Total plant services for all manufacturers

### Power delivery

- Transformers
- Switchgear
- Motor control centers
- Capacitors and harmonic filters
- Iso-phase bus
- Disconnects
- Automatic transfer switches
- Cables
- Ground grids
- Protective relays
- Excitation
- Power system studies

### Mechanical

- Crushers
- Blowers
- Refiners
- Hydro
- Gear boxes
- Centrifuges
- Pumps
- Compressors

### Power utilization

- Motors
- Babbitt bearings
- Drives & controls – parts and repair
- SCADA
- PLCs

### Inspection services

- Non-destructive testing
- Boiler, tank and piping inspections

## Power system studies

To improve maintenance and employee efficiency, GE offers industrial customers a variety of power system studies that improve maintenance effectiveness and employee efficiency. They include:

- Short circuit study
- Coordination study
- Load flow
- Harmonic study
- Transient, motor impact & stability

The benefits are clear and substantial. These studies identify reasons for power outages or failures. They boost availability and enhance protection of personnel. They determine the impact and ratings of new equipment added to existing systems. And they ensure that the power system is operating at the most cost-effective, stable and efficient manner possible.

## Arc flash hazard analysis

An arc flash hazard analysis by GE will calculate NFPA-based level of Personal Protective Equipment (PPE) required in a given environment and communicate PPE and approach distance to exposed energized equipment through a warning label system.



## Electrical training programs

World-class training programs with an emphasis on consistency, quality and a practical experience are a sound investment in your people and equipment. Among the topics GE courses cover are Electrical Safety and NFPA 70E, Lockout / Tagout, and Fundamentals of NFPA 70E. Training is available at GE Energy Learning Centers, your facility and on-line.





## Options for modernizing existing industrial facilities



Aging industrial plants encounter two problems. First, the reliability of their equipment decreases. Second, when they expand and modernize, their equipment no longer meets the required applications.

GE offers custom designed upgrades and retrofits to improve power system reliability and to bring performance into line with emerging and future facility needs.

Your plant's requirements in such areas as aging equipment, reliability and protection, new communication standards, and maintenance budget will determine the best solution for you.

In some cases, full replacement of existing equipment may be the best long-term choice in terms of both performance and economics. In these situations, GE can supply the full range of equipment as summarized earlier in this publication.

In other cases, replacement of key components will be the best choice. GE also has solutions that can address the ongoing reliability, protection and communication needs of your plant's operation.





Spectra RMS® Molded Case Circuit Breakers



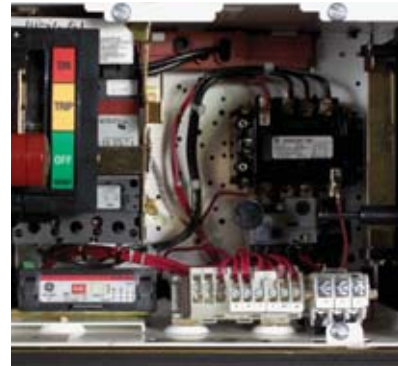
Remote Racking Device



WavePro™ Power Circuit Breaker



EntelliGuard® TU Trip Units



Low Voltage MCC Buckets

### Circuit Breakers

Medium and low-voltage power circuit breakers. Molded case circuit breakers. Current limiting circuit breakers. Industrial circuit breakers. For every circuit protection need, there's a GE breaker ready for duty.

### Conversion Kits with RELT

Reliability and protection are the key functions of any trip unit. The new EntelliGuard TU trip unit raises the standard for both with the flexibility to address many different power distribution and protection needs. Reduced Energy Let-through (RELT) provides improved arc flash hazard mitigation during maintenance.

### Relays

The array of GE relays provide complete and accurate protection for industrial motors and their associated mechanical systems.

### Power Management Control System (PMCS)

GE's Power Management Control System provides system-wide information to help you reduce downtime with basic to complex modules for monitoring, power quality, cost allocation, and control and automation.

### Low Voltage Motor Control Center Buckets

MCC buckets can be provided as individual parts or as complete units, with fused switches or circuit breakers. Ranging from NEMA size 1 to 4, buckets and associated parts are available to fit 7700-Line, 8000-Line and Spectra Series motor control centers.

### Remote Racking Device

Now maintenance personnel can rack low voltage breakers in and out from as far away as 30 feet for greater arc flash protection. GE's electric remote racking device connects easily to WavePro or EntelliGuard breakers in Entellisys, AKD-10 and AKD-20 switchgear.



# Real-time information. Real solid support.

Whether it's on the web or on your own computer, getting product information and technical support from GE is easy and sure.

[www.geelectrical.com/industrial](http://www.geelectrical.com/industrial)

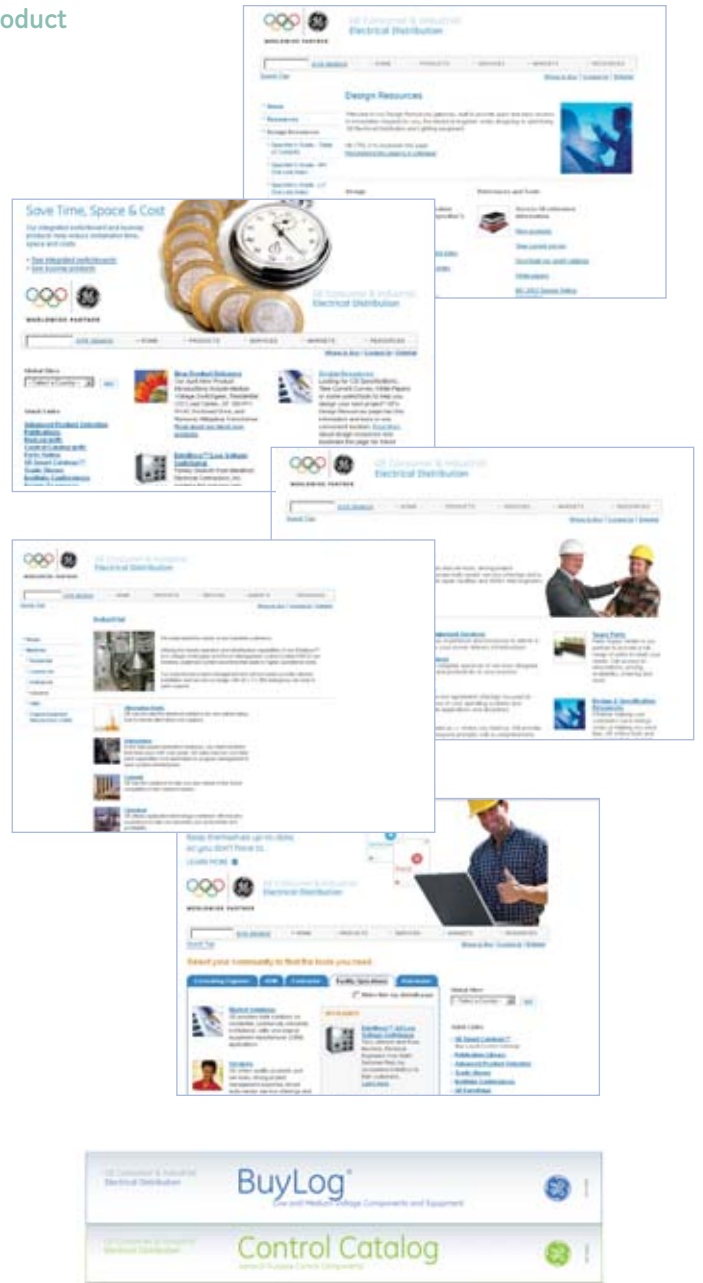
A new customized home page for facility operators provides quick links and tools specific to your needs. It keeps you up to date on our new product launches and allows you to save your home page preferences.

- Search functionality quickly zeroes in on detailed information for specific catalog numbers
- The Publication Library delivers application guides, installation and maintenance instructions, brochures, layouts and dimensions, and time current curves
- A Manufacturer Cross Reference allows you to look up multiple GE equivalent catalog numbers for a variety of competitors' products
- Design and specification resources deliver quick access to information required by electrical engineers
- Links to expanded services include Service Agreements that optimize the performance of your operating systems and equipment across multiple applications and to Emergency Service information for 24/7 help in emergency situations

## GE Smart Catalogs™

In these two catalogs are comprehensive data on all the products available from the Electrical Distribution business of GE. Features and benefits, ratings and catalog numbers, dimensions and weights, operational characteristics, list prices and more. They're available:

- as Smart Catalogs™ that let you learn about and download updates as they become available
- on the web and easily navigable via the Publications Library at [www.geelectrical.com](http://www.geelectrical.com)
- as printed catalogs to keep at your fingertips – the BuyLog® contains complete product specifications and catalog numbers



# What you want. When you want it.

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## 1-888-GE-RESOLve

1-888-GE RESOLve (888-437-3765) is GE's 24/7 service number. It's your connection to fast action on in-warranty service on equipment and components, genuine GE spare parts and GE field service support. Our highly trained and experienced technicians can repair your equipment on-site or in one of our worldwide Service Centers. GE's global network has more than 60 repair facilities and 5,000 field engineers and technicians at your service. For complete Service Solutions visit [www.geelectrical.com/industrial](http://www.geelectrical.com/industrial).

## [www.partssupercenter.com](http://www.partssupercenter.com)

The Parts Super Center is the source for many GE industrial renewal parts and components. A combination of inventory and technical personnel supports a wide range of products, including motors, power delivery, drives and many others. It's also available 24/7 at 1-800-341-1010.

## 1,400 distributor locations

When local contact is the answer, GE's authorized distributors meet your needs. With more than 500 different firms in over 1,400 locations, there's a local distributor near you, and specialist distributors address the needs of your target market segment. Find your nearest distributor easily at [www.geelectrical.com](http://www.geelectrical.com).



# Section 1: Components: Parts

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# Molded Case Circuit Breakers History/Timeline

## GE Molded Case Circuit Breakers History/Timeline

<b>1950s</b>	CORE (Q-Line, TEY, THED, THFK, THJK, THKM) Thermal Magnetic
<b>1970s</b>	CORE (TJLS, TKLS, TJL4V, TKL4V) Electronic Trip (VersaTrip, SelecTrip, RMS9, MVT)
<b>1990s</b>	Spectra® SE, SF, SG, SK Electronic Trip (S1, MVT+, MVTpm)
<b>2005</b>	Record Plus® (FB) Thermal Magnetic
<b>2007</b>	Record Plus® (FE, FG) Electronic Trip (SMR1, SMR2)

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# Molded Case Circuit Breakers Internal Accessories

## Internally Mounted Signaling and Controlling Functions

### Auxiliary Switches

Unless otherwise noted switch is SPDT rated 6 amperes at rated ac voltage, 1/2 amperes at 125 Vdc, 1/4 amperes at 250 Vdc.

Breaker Type	Number of SPDT Switch Elements	Control Voltage 240 Vac, 250 Vdc Maximum UL Listed When Factory Installed Suffix <sup>1</sup>			Control Voltage 600 Vac, 250 Vdc Maximum Not UL Listed Suffix <sup>1</sup>		
		Base Number	Add to Base Product Number for Factory Installation <sup>12</sup>	List Price GO-135LG	Base Number	Add to Base Product Number for Factory Installation <sup>12</sup>	List Price GO-135LG
TQB, THQB, THHQB, TXQB, TQL, THQL, THHQL, TXQL	1 <sup>3</sup>	TQAS2A1 <sup>2,4</sup>	5	\$64.50 <sup>11</sup>	-	-	-
TQC, THQC, THHQC, TXQC	1 <sup>3</sup>	TQCAS2A1 <sup>2,4</sup>	5	\$77.50 <sup>11</sup>	-	-	-
TQD, THQD	1	TQDAS2AB1RS	N/A	\$148.00 <sup>6</sup>	-	-	-
TEB, TEC, TB1	1	TEDAS2AB1R,L <sup>7,8</sup>	S	\$148.00 <sup>11</sup>	TEDAS6AB1R,L <sup>7,8</sup>	S	\$179.00 <sup>11</sup>
TED, THED, THLC1 <sup>8</sup>	2	TEDAS2AB2R,L <sup>7,8</sup>	S	\$295.00 <sup>11</sup>	TEDAS6AB2R,L <sup>7,8</sup>	S	\$360.00 <sup>11</sup>
TFC, TFJ, TFK, THFK, <sup>9</sup>	1	TFKASA2AB1 <sup>10</sup>	RS or LS	\$148.00	TFKASA6AB1 <sup>10</sup>	RS	\$167.00
THLC2, THLC4, TLB2, TLB4	2	TFKASA2AB2 <sup>10</sup>	RS or LS	\$295.00	TFKASA6AB2 <sup>10</sup>	RS	\$360.00
TJC, TJD, TJJ, TJK, THJK	1	TJKASA2AB1R,L	S	\$148.00	TJKASA6AB1R,L	S	\$179.00
	2	TJKASA2AB2R,L	S	\$295.00	TJKASA6AB2R,L	S	\$360.00
	3	TJKASA2AB3R,L	S	\$439.00	TJKASA6AB3R,L	S	\$530.00
	4	TJKASA2AB4R,L	S	\$598.00	TJKASA6AB4R,L	S	\$712.00
TB4, TBC4	1	TB4ASA2AB1R,L	S	\$148.00	TB4ASA6AB1R,L	S	\$179.00
	2	TB4ASA2AB2R,L	S	\$295.00	TB4ASA6AB2R,L	S	\$360.00
	3	TB4ASA2AB3R,L	S	\$439.00	TB4ASA6AB3R,L	S	\$530.00
	4	TB4ASA2AB4R,L	S	\$598.00	TB4ASA6AB4R,L	S	\$712.00
TKM, THKM, TKC, TB6, TB8, TBC6, TBC8	1	TKMAAS2AB1	RS or LS	\$148.00	TKMAAS6AB1	RS or LS	\$179.00
	2	TKMAAS2AB2	RS or LS	\$295.00	TKMAAS6AB2	RS or LS	\$360.00
	3	TKMAAS2AB3	RS or LS	\$439.00	TKMAAS6AB3	RS or LS	\$530.00
	4	TKMAAS2AB4	RS or LS	\$598.00	TKMAAS6AB4	RS or LS	\$712.00

<sup>1</sup>"S" suffix for wires out the side of breaker. For lead exit from back of breaker, replace suffix "S" with "B" and multiply list price by 1.25. "B" suffix not UL listed. Not available with leads out the back for "Q-Line", or 2 element auxiliary switches used on TFG, TFJ, TFK, THFK, THLC2, THLC4, TLB2, and TLB4.

<sup>2</sup>Not available on GFCI (5 ma) or Equipment Ground Fault (30 ma) breakers.

<sup>3</sup>Switch is SPST. Operates like "A" side of an "AB" contact and is rated six amperes at 120 Vac and three amperes at 24 Vac.

<sup>4</sup>Accessories mounted in a one-inch frame and increase overall breaker size by one pole added to left side. May be applied to 1-, 2-, or 3-pole breakers. Must be factory installed. Maximum total breaker width is four poles.

<sup>5</sup>To order, specify both the accessory and breaker product number, e.g. THQL2130, TQASA1 identifies a 30 ampere, 2-pole plug-in breaker with a factory installed SPST auxiliary switch.

<sup>6</sup>GO-135F.

<sup>7</sup>Auxiliary switch mounts in right pole only on two-pole TEB, TED breakers. (Factory installed only.)

<sup>8</sup>Not available with "B" suffix—leads out back.

<sup>9</sup>Changes circuit breaker interrupting capacity to 10kAIC, 600 Vac; 22 kAIC, 240 and 480 Vac.

<sup>10</sup>UL listed for field installation.

<sup>11</sup>GO-135B.

<sup>12</sup>For factory installation, contact Customer Service Center.



# Molded Case Circuit Breakers Internal Accessories

## Internally Mounted Signaling and Controlling Functions

### How to Order

For field replacement, order base number only. For factory installation, contact Customer Service Center and order base number plus appropriate suffix. For a nonautomatic breaker (molded case switch) a dummy trip is required when installing either a shunt trip or UVR.

### Shunt Trip

Remote Tripping – Trips breaker by remote control. Trip coil de-energized when breaker opens. Device meets UL requirements for service to ground fault system.

### Undervoltage Release

Undervoltage release automatically trips breaker when applied coil voltage drops to 30 to 70 percent of rated value. Time-delay unit prevent nuisance tripping due to momentary loss of voltage. Separate externally mounted unit has 120 Vac input and 125 Vdc output. Used in conjunction with 125 Vdc undervoltage release which must be ordered separately. Product number SPUVTD for adjustable delay .1 to 1.0 seconds. List Price \$430.00 GO-245B.

### Shunt Trip

Breaker Type	Accessory Voltage		Product Number <sup>1,2</sup> – UL Listed When Factory Installed		List Price GO-135B
	Vac	Vdc	Base Number for Field Replacement	Suffix Number <sup>3</sup>	
				Add to Base Product Number for Factory Installation	
TQB, THQB, THHQB, TXQB, TQL, THQL, THHQL, TXQL	120-240	12	TQSTA1 <sup>4,5,6</sup>	9	\$95.50
			TQSTA7 <sup>4,5,6</sup>	9	\$95.50
	24-48	TQSTA8 <sup>4,5,6</sup>	9	\$95.50	
TQD, THQD	120	12	TQDST1 <sup>7,8</sup>	9	\$178.00 <sup>12</sup>
			TQDST2 <sup>8</sup>	9	\$178.00 <sup>12</sup>
	240	12	TQDST7 <sup>8</sup>	9	\$178.00 <sup>12</sup>
			TQDST8 <sup>8</sup>	9	\$178.00 <sup>12</sup>
	TEB, TEC, TB1-B, <sup>10</sup> TED, THED, THLC1	120	24	TEDST12	RS or LS <sup>7,11</sup>
TEDST12				RS or LS <sup>7,11</sup>	\$363.00
TEDST13				RS or LS <sup>7,11</sup>	\$363.00
240		12	TEDST13	RS or LS <sup>7,11</sup>	\$363.00
			TEDST7	RS or LS <sup>7,11</sup>	\$363.00
480		24	TEDST8	RS or LS <sup>7,11</sup>	\$363.00
			TEDST9	RS or LS <sup>7,11</sup>	\$363.00
600		125	TEDST12	RS or LS <sup>7,11</sup>	\$363.00
			TEDST11	RS or LS <sup>7,11</sup>	\$363.00
TFC, TFJ, TFK, THFK, THLC2, THLC4, TLB2, TLB4		120	24	TFKSTA12 <sup>1</sup>	RS or LS
	TFKSTA12 <sup>1</sup>			RS or LS	\$363.00 <sup>13</sup>
	TFKSTA13 <sup>1</sup>			RS or LS	\$363.00 <sup>13</sup>
	240	12	TFKSTA13 <sup>1</sup>	RS or LS	\$363.00 <sup>13</sup>
			TFKSTA7 <sup>1</sup>	RS or LS	\$363.00 <sup>13</sup>
	480	24	TFKSTA8 <sup>1</sup>	RS or LS	\$363.00 <sup>13</sup>
			TFKSTA9 <sup>1</sup>	RS or LS	\$363.00 <sup>13</sup>
	600	125	TFKSTA12 <sup>1</sup>	RS or LS	\$363.00 <sup>13</sup>
			TFKSTA11 <sup>1</sup>	RS or LS	\$363.00 <sup>13</sup>

<sup>1</sup>UL listed for field installation on TFC, TFJ, TFK, and THFK model 4 frames and trips (mfg. Code date J101 or later) and on THLC2, THLC4, TLB4.  
<sup>2</sup>For replacement voltage suppressor on 120 Vac UVRs for F225 line, order Product Number 286A8062G1. for 120 Vac UVRs on all other breaker lines, order Product Number 192A8300G1.  
<sup>3</sup>"S" suffix for wires out the side of the breaker. For lead exit from back of breaker, replace suffix "S" with "B", and multiply "S" accessory List Price by 1.25. "B" suffix not UL listed. Not available with leads out the back on "Q-Line." For factory installation, contact Customer Service Center.  
<sup>4</sup>Mounts on a one-inch frame and increases overall breaker size by one pole added to left side. May be applied to 1-, 2-, or 3-pole breakers. Maximum total breaker width is 4-pole. Must be factory installed.  
<sup>5</sup>Not available on GFCI (5 ma) or Equipment Ground Fault (30 ma) breakers.  
<sup>6</sup>TQST shunt trips not available on breakers over 100 A.  
<sup>7</sup>Not available with "B" suffix-leads out back.  
<sup>8</sup>Must be factory installed, right pole only.  
<sup>9</sup>To order, specify both the accessory and breaker product number =, e.g. THQL2130, TQST1 identifies a 30 A, 2-pole plug-in breaker with a factory installed 120 Vac shunt trip.  
<sup>10</sup>For TB1 with bolt-on limiters.  
<sup>11</sup>Mounts in the right pole only on 2-pole TEB, TED breakers.  
<sup>12</sup>GO-135F.  
<sup>13</sup>GO-135LG.





# Molded Case Circuit Breakers Internal Accessories

## Internally Mounted Signaling and Controlling Functions

### Shunt Trip (continued)

Breaker Type	Accessory Voltage		Product Number <sup>1,2</sup> – UL Listed When Factory Installed		List Price GO-135LG
	Vac	Vdc	Base Number for Field Replacement	Suffix Number <sup>3</sup> Add to Base Product Number for Factory Installation	
TJC, TJD, TJJ, TJK, THJK	120		TJKSTA12R,L	S	\$363.00
	240		TJKSTA12R,L	S	\$363.00
	480		TJKSTA13R,L	S	\$363.00
	600		TJKSTA13R,L	S	\$363.00
		12	TJKSTA7R,L	S	\$363.00
		24	TJKSTA8R,L	S	\$363.00
		48	TJKSTA9R,L	S	\$363.00
		125	TJKSTA12R,L	S	\$363.00
		250	TJKSTA11R,L	S	\$363.00
	TB4, TBC4	120		TB4STA12R,L <sup>5</sup>	
240			TB4STA12R,L <sup>5</sup>		\$363.00
480			TB4STA13R,L <sup>5</sup>		\$363.00
600			TB4STA13R,L <sup>5</sup>		\$363.00
		12	TB4STA7R,L <sup>5</sup>		\$363.00
		24	TB4STA8R,L <sup>5</sup>		\$363.00
		48	TB4STA9R,L <sup>5</sup>		\$363.00
		125	TB4STA12R,L <sup>5</sup>		\$363.00
		250	TB4STA11R,L <sup>5</sup>		\$363.00
TKC, TKM, THKM, TB6, TB8, TBC6, TBC8 <sup>4</sup>		120		TKMASTA12R,L	S
	240		TKMASTA12R,L	S	\$363.00
	480		TKMASTA13R,L	S	\$363.00
	600		TKMASTA13R,L	S	\$363.00
		12	TKMASTA7R,L	S	\$363.00
		24	TKMASTA8R,L	S	\$363.00
		48	TKMASTA9R,L	S	\$363.00
		125	TKMASTA12R,L	S	\$363.00
		250	TKMASTA11R,L	S	\$363.00

<sup>1</sup>UL listed for field installation on TFC, TFJ, TFK, and THFK model 4 frames and trips (mfg. Code date J101 or later) and on THLC2, THLC4, TLB4.

<sup>2</sup>For replacement voltage suppressor on 120 Vac UVRs for F225 line, order Product Number 286A8062G1. for 120 Vac UVRs on all other breaker lines, order Product Number 192A8300G1.

<sup>3</sup>"S" suffix for wires out the side of the breaker. For lead exit from back of breaker, replace suffix "S" with "B", and multiply "S" accessory List Price by 1.25. "B" suffix not UL listed. Not available with leads out the back on "Q-Line." For factory installation, contact Customer Service Center.

<sup>4</sup>Not UL listed.

<sup>5</sup>Not available for factory installation.



# Molded Case Circuit Breakers Internal Accessories

## Internally Mounted Signaling and Controlling Functions

### Undervoltage Release

Breaker Type	Accessory Voltage		Product Number <sup>1,2</sup> – UL Listed When Factory Installed		List Price GO-135LG	
	Vac	Vdc	Base Number for Field Replacement	Suffix Number <sup>3</sup> Add to Base Product Number for Factory Installation		
TEB, TEC, TB1-B <sup>5</sup> TED, THED, THLC1	120		TEDUV1	RS <sup>8</sup>	\$363.00 <sup>7</sup>	
	240		TEDUV2	RS <sup>8</sup>	\$363.00 <sup>7</sup>	
	480		TEDUV4	RS <sup>8</sup>	\$363.00 <sup>7</sup>	
	600		TEDUV6	RS <sup>8</sup>	\$363.00 <sup>7</sup>	
		12	TEDUV7	RS <sup>8</sup>	\$363.00 <sup>7</sup>	
		24	TEDUV8	RS <sup>8</sup>	\$363.00 <sup>7</sup>	
		48	TEDUV9	RS <sup>8</sup>	\$363.00 <sup>7</sup>	
		125	TEDUV10	RS <sup>8</sup>	\$363.00 <sup>7</sup>	
		250	TEDUV11	RS <sup>8</sup>	\$363.00 <sup>7</sup>	
	TFC, TFJ, TFK, THFK, THLC2, THLC4, TLB2, TLB4	120		TFKJVA1 <sup>1</sup>	RS or LS	\$363.00
		240		TFKJVA2	RS or LS	\$363.00
480			TFKJVA4	RS or LS	\$363.00	
600			TFKJVA6	RS or LS	\$363.00	
		12	TFKJVA7	RS or LS	\$363.00	
		24	TFKJVA8	RS or LS	\$363.00	
		48	TFKJVA9	RS or LS	\$363.00	
		125	TFKJVA10	RS or LS	\$363.00	
		250	TDKJVA11	RS or LS	\$363.00	
TJC, TJD, TJJ, TJK, THJK		120		TJUV1R	S	\$363.00
		240		TJUV2R	S	\$363.00
	480		TJUV4R	S	\$363.00	
	600		TJUV6R	S	\$363.00	
		12	TJUV7R	S	\$363.00	
		24	TJUV8R	S	\$363.00	
		48	TJUV9R	S	\$363.00	
		125	TJUV10R	S	\$363.00	
		250	TJUV11R	S	\$363.00	
	TKC, TKM, THKM, TB6, TB8, TBC6, TBC6 <sup>6</sup>	120		TKUV1R	S	\$363.00
		240		TKUV2R	S	\$363.00
480			TKUV4R	S	\$363.00	
600			TKUV6R	S	\$363.00	
		12	TKUV7R	S	\$363.00	
		24	TKUV8R	S	\$363.00	
		48	TKUV9R	S	\$363.00	
		125	TKUV10R	S	\$363.00	
		250	TKUV11R	S	\$363.00	

<sup>1</sup>UL listed for field installation on TFC, TFJ, TFK, and THFK model 4 frames and trips (mfg. Code date J101 or later) and on THLC2, THLC4, TLB4.

<sup>2</sup>For replacement voltage suppressor on 120 Vac UVRs for F225 line, order Product Number 286A8062G1 for 120 Vac UVRs on all other breaker lines, order Product Number 192A8300G1.

<sup>3</sup>"S" suffix for wires out the side of the breaker. For lead exit from back of breaker, replace suffix "S" with "B", and multiply "S" accessory List Price by 1.25. "B" suffix not UL listed. Not available with leads out the back on "Q-Line." For factory installation, contact Customer Service Center.

<sup>4</sup>For TB1 with bolt-on limiters.

<sup>5</sup>Not available with "B" suffix – leads out back.

<sup>6</sup>Not UL listed.

<sup>7</sup>GO-135B.



# Molded Case Circuit Breakers Internal Accessories

## Internally Mounted Signaling and Controlling Functions

### Bell Alarm Switches

Breaker Type	Product Number <sup>2</sup> UL Listed When Factory Installed		List Price GO-135LG
	Base No.	Suffix	
TEB, TEC, TB1	TEDBAR or	S	<b>\$154.00<sup>8</sup></b>
TED, THED, THLC1	TEDBAL <sup>3,4</sup>		
TFC, TFJ, TFK, THFK, THLC2, THLC4, TLB4	TFKBAAR <sup>5,6</sup>	S	<b>\$154.00</b>
TJC, TJJ, TJK, THJK TB4, TBC4, TJD	TJKBAAL <sup>7</sup>	S	<b>\$156.00</b>
TKC, TKM, THKM, TB6, TBC6, TBC8, TB8	TKMABAAL <sup>7</sup>	S	<b>\$141.00</b>

### Blown Fuse Detector-Three-Coil Shunt Trip

Breaker Type	Product Number <sup>2</sup> UL Listed When Factory Installed		List Price GO-135LG
	Base No.	Suffix	
TED, THED, TEC <sup>3</sup>	TEDST316	RS	<b>\$672.00<sup>8</sup></b>
TFJ, TJK, THFK, TFC	TFKbfd316	LS or RS	<b>\$672.00</b>
TJJ, TJK, THJK, TJD, TJC	TJKST316	LS	<b>\$672.00</b>
TKM, THKM, TKC	TKMAST316	LS	<b>\$672.00</b>

### Dummy Trip<sup>1</sup>

Breaker Type	Product Number	List Price GO-135LG
E150	Internal accessories for these noninterchangeable breakers require factory-installed dummy trips. Automatically supplied when accessories are ordered.	No
FJ225		Charge
JJ400		
FK225	TFKYT2 (two-pole)	<b>\$148.00</b>
FK225	TFKYT3 (three-pole)	<b>\$208.00</b>
JK400	TJKYT3 (two-pole, three-pole)	<b>\$212.00</b>
JK600	TJKYT36 (two-pole, three-pole)	<b>\$212.00</b>
KM800	TKMAYT3 (two-pole, three-pole)	<b>\$261.00</b>
KM1200	TKMA3YT12 (two-pole, three-pole)	<b>\$424.00</b>

<sup>1</sup>Not UL listed when field installed.

<sup>2</sup>Add "B" suffix for leads exit from back of breaker; for price, multiply List Price by 1.25. For factory installation, contact Customer Service Center.

<sup>3</sup>Not available with "B" suffix - leads out back.

<sup>4</sup>Not available for two-pole TEB, TED. Order TEDBAR.

<sup>5</sup>Changes circuit breaker interrupting capacity to: 10kA @ 600 Vac, 22kA @ 480 Vac, 22kA @ 240 Vac, for TFC, TFJ, TFK and THFK only.

<sup>6</sup>UL listed for field installation.

<sup>7</sup>Mounts in center pole with leads out left side.

<sup>8</sup>GO-135B

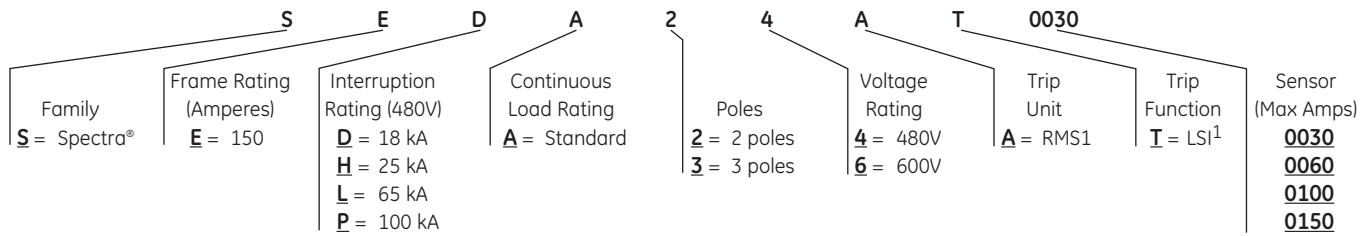


# Molded Case Circuit Breakers

## Industrial Circuit Breaker Accessories

### 15-150A Circuit Breakers, Electronic Trip, Spectra® RMS, SE150 Line Circuit Breakers

#### Product Number Structure



<sup>1</sup>Adjustable Instantaneous with Tracking Short Time (Long Time established via Interchangeable Rating Plugs).  
 Note: This information is provided for interpreting product numbers (it should not be used to build product numbers).

#### SE150 Line, Suitable for Reverse Feed, UL File E-11592, CSA LR 40350

#### SED, SEH; 2-Pole, UL/CSA: 150A, 480 Vac Max., IEC 947-2: 160A, 415 Vac Max.

Rating Plug					Frame				Terminal Lugs for Front Connection (Cu/Al)			
Ampere Rating	Adj. Inst. Trip Range Amps		Product Number	List Price GO-135S	UL 489 IC @480 Vac		UL 489 IC @480 Vac		Product Number	List Price GO-135S	Wire Range	
	Low	High			18kA	25kA						
15	43	182	SRPE30A15	\$106.00	30	SEDA24AT0030	\$214.00	SEHA24AT0030	\$530.00	TCAL18	\$3.00	12-3/0 Cu 12-3/0 Al
20	58	254	SRPE30A20	\$106.00								
25	73	332	SRPE30A25	\$106.00								
30	87	415	SRPE30A30	\$106.00								
40	118	501	SRPE60A40	\$106.00	60	SEDA24AT0060	\$214.00	SEHA24AT0060	\$530.00			
50	148	637	SRPE60A50	\$106.00								
60	178	777	SRPE60A60	\$106.00								
70	206	863	SRPE100A70	\$106.00								
80	236	999	SRPE100A80	\$106.00	100	SEDA24AT0100	\$312.00	SEHA24AT0100	\$634.00			
90	267	1138	SRPE100A90	\$106.00								
100	297	1280	SRPE100A100	\$106.00								
110	328	1426	SRPE150A110	\$106.00								
125	374	1640	SRPE150A125	\$106.00	150	SEDA24AT0150	\$837.00	SEHA24AT0150	\$1427.00			
150	450	1991	SRPE150A150	\$106.00								

#### SE150 Line, Suitable for Reverse Feed, UL File E-11592, CSA LR 40350

#### SEL, SEP<sup>2</sup>; 2-Pole, UL/CSA: 150A, 480 Vac Max., IEC 947-2: 160A, 415 Vac Max.

Rating Plug					Frame				Terminal Lugs for Front Connection (Cu/Al)			
Ampere Rating	Adj. Inst. Trip Range Amps		Product Number	List Price GO-135S	UL 489 IC @480 Vac		UL 489 IC @480 Vac		Product Number	List Price GO-135S	Wire Range	
	Low	High			65kA	100kA						
15	43	182	SRPE30A15	\$106.00	30	SELA24AT0030	\$549.00	SEPA24AT0030	\$895.00	TCAL18	\$3.00	12-3/0 Cu 12-3/0 Al
20	58	254	SRPE30A20	\$106.00								
25	73	332	SRPE30A25	\$106.00								
30	87	415	SRPE30A30	\$106.00								
40	118	501	SRPE60A40	\$106.00	60	SELA24AT0060	\$549.00	SEPA24AT0060	\$895.00			
50	148	637	SRPE60A50	\$106.00								
60	178	777	SRPE60A60	\$106.00								
70	206	863	SRPE100A70	\$106.00								
80	236	999	SRPE100A80	\$106.00	100	SELA24AT0100	\$744.00	SEPA24AT0100	\$1179.00			
90	267	1138	SRPE100A90	\$106.00								
100	297	1280	SRPE100A100	\$106.00								
110	328	1426	SRPE150A110	\$106.00								
125	374	1640	SRPE150A125	\$106.00	150	SELA24AT0150	\$1808.00	SEPA24AT0150	\$2777.00			
150	450	1991	SRPE150A150	\$106.00								

<sup>2</sup>SEL, SEP UL current limiting.  
 Note: All Spectra® breakers UL listed as HACR type.  
 All Spectra® breakers marked CE.

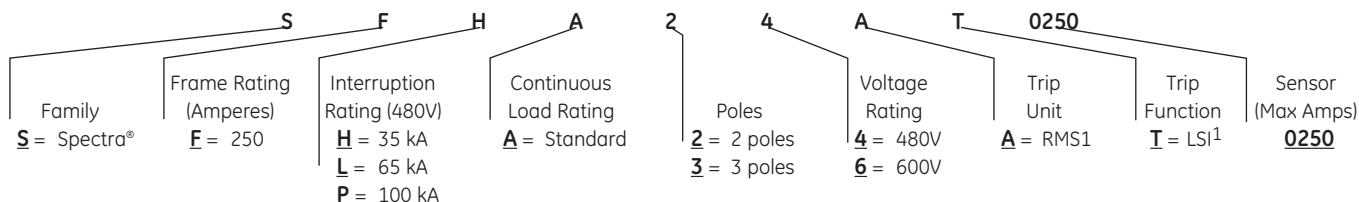


# Molded Case Circuit Breakers

## Industrial Circuit Breaker Accessories

### 70-250A Circuit Breakers, Electronic Trip, Spectra® RMS, SF250 Line Circuit Breakers

#### Product Number Structure



<sup>1</sup>Adjustable Instantaneous with Tracking Short Time (Long Time established via Interchangeable Rating Plugs).  
 Note: This information is provided for interpreting product numbers (it should not be used to build product numbers).

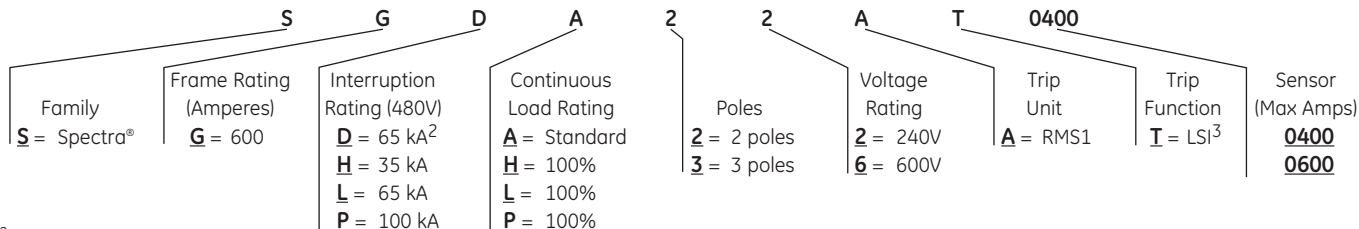
#### SF250 Line, Suitable for Reverse Feed, UL File E-11592, CSA LR 40350

#### SFH; 2-Pole, UL/CSA: 250A, 480 Vac Max., IEC 947-2: 250A, 415 Vac Max.

Rating Plug					Frame			Terminal Lugs for Front Connection (Cu/Al)		
Adjustable Instantaneous Trip Ampere Range					UL 489 IC @480 Vac			Product Number	List Price GO-135S	Wire Range
Ampere Rating	Low	High	Product Number	List Price GO-135S	Current Sensor	Product Number	List Price GO-135S			
70	205	700	SRPF250A70	\$106.00	250	SFHA24AT0250	\$1134.00	TCAL29	\$8.00	8-350 Cu
90	265	900	SRPF250A90	\$106.00						8-350 Al
100	295	1000	SRPF250A100	\$106.00						
110	325	1100	SRPF250A110	\$106.00						
125	370	1250	SRPF250A125	\$106.00						
150	440	1500	SRPF250A150	\$106.00						
175	515	1750	SRPF250A175	\$106.00						
200	590	2000	SRPF250A200	\$106.00						
225	665	2250	SRPF250A225	\$106.00						
250	736	2500	SRPF250A250	\$106.00						

### 125-600A Circuit Breakers, Electronic Trip, Spectra® RMS, SG600 Digital, Solid-State Spectra® RMS Breakers

#### Product Number Structure



<sup>2</sup>SGD rated 65kA at 240V.  
<sup>3</sup>Adjustable Instantaneous with Tracking Short Time (Long Time established via Interchangeable Rating Plugs).  
 Note: This information is provided for interpreting product numbers (it should not be used to build product numbers).

#### SG600 Line, Suitable for Reverse Feed, UL File E-11592, CSA LR 40350

#### SGD, SGH; UL/CSA: 400A, 600 Vac Max., IEC 947-2: 400A, 690 Vac Max.

Rating Plug					Frame				Terminal Lugs for Front Connection (Cu/Al)					
Adjustable Instantaneous Trip Ampere Range					UL 489 IC @480 Vac		UL 489 IC @480 Vac		Product Number	List Price GO-135S	Wire Range			
Ampere Rating	Low	High	Product Number	List Price GO-135S	Current Sensor	Poles	Product Number	List Price GO-135S						
125	380	1275	SRPG400A125	\$106.00	400	2	SGDA22AT0400 <sup>4</sup>	\$1540.00	SGHA26AT0400	\$1959.00	2-pole lug kit	TCLK265 <sup>5</sup>	\$28.00	(2) 2/0-500 Cu or (1) 8-600 Cu
150	455	1530	SRPG400A150	\$106.00										
175	530	1785	SRPG400A175	\$106.00										
200	605	2040	SRPG400A200	\$106.00										
225	680	2295	SRPG400A225	\$106.00										
250	755	2550	SRPG400A250	\$106.00							3-pole lug kit	TCLK365 <sup>5</sup>	\$42.00	(2) 2/0-500 Al or (1) 8-600 Al
300	905	3060	SRPG400A300	\$106.00										
350	1060	3570	SRPG400A350	\$106.00										
400	1210	4080	SRPG400A400	\$106.00										

<sup>4</sup>Rated 240 Vac max.  
<sup>5</sup>Order one kit for either line or load end; two kits required for both.  
 Note: All Spectra® breakers UL listed as HACR type. All Spectra® breakers marked CE.

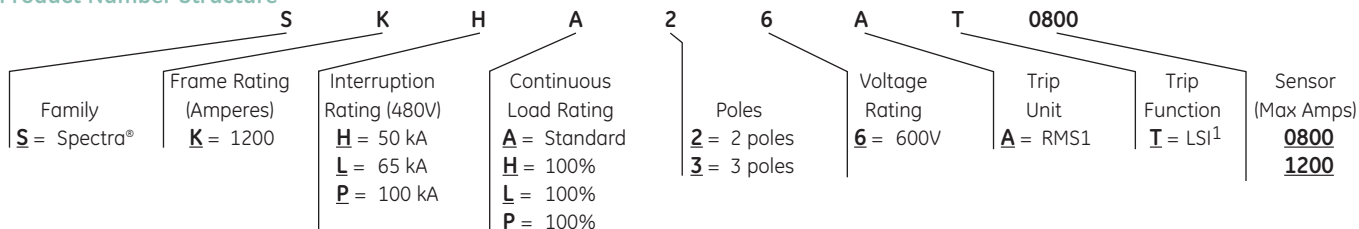


# Molded Case Circuit Breakers

## Industrial Circuit Breaker Accessories

### 300-1200A Circuit Breakers, Electronic Trip, Spectra® RMS

#### Product Number Structure



<sup>1</sup>Adjustable Instantaneous with Tracking Short Time (Long Time established via Interchangeable Rating Plugs).  
Note: This information is provided for interpreting product numbers (it should not be used to build product numbers).

#### SK1200 Line, Suitable for Reverse Feed, UL File E-11592, CSA LR 40350, UL/CSA: 800A, 600 Vac Max., IEC 947-2:800A 690 Vac Max.

Rating Plug					Frame					Terminal Lugs for Front Connection (Cu/Al)					
Ampere Rating	Adjustable Instantaneous Trip Ampere Range		Product Number	List Price GO-135S	UL 489 IC @480 Vac					Product Number	List Price GO-135S	Wire Range			
	Low	High			50kA		65kA								
	Current Sensor	Poles			Product Number	List Price GO-135S	Product Number	List Price GO-135S							
300	940	3015	SRPK800A300	\$106.00	800	2	SKHA26AT0800	\$3377.00	SKLA26AT0800	\$4301.00	TCAL81	\$47.00	(3) 3/0-500 Cu		
400	1255	4015	SRPK800A400	\$106.00			SKHA36AT0800	\$4323.00	SKLA36AT0800	\$5234.00					
500	1570	5020	SRPK800A500	\$106.00		3	2	SKHA26AT1200	\$7057.00	SKLA26AT1200	\$7958.00	TCAL125	\$76.00	(4) 250-500 Cu	
600	1875	6195	SRPK800A600	\$106.00				SKHA36AT1200	\$7679.00	SKLA36AT1200	\$8586.00				
700	2155	7420	SRPK800A700	\$106.00			3	2	SKHA26AT1200	\$7057.00	SKLA26AT1200	\$7958.00	TCAL125	\$76.00	(4) 250-500 Al
800	2440	8705	SRPK800A800	\$106.00					SKHA36AT1200	\$7679.00	SKLA36AT1200	\$8586.00			

#### SK1200 Line, Suitable for Reverse Feed, UL File E-11592, CSA LR 40350, UL/CSA: 1200A, 600 Vac Max., IEC 947-2: 1250A, 690 Vac Max.

Rating Plug					Frame					Terminal Lugs for Front Connection (Cu/Al)					
Ampere Rating	Adjustable Instantaneous Trip Ampere Range		Product Number	List Price GO-135S	UL 489 IC @480 Vac					Product Number	List Price GO-135S	Wire Range			
	Low	High			50kA		65kA								
	Current Sensor	Poles			Product Number	List Price GO-135S	Product Number	List Price GO-135S							
600	1825	6110	SRPK1200A600	\$106.00	1200	2	SKHA26AT1200	\$7057.00	SKLA26AT1200	\$7958.00	TCAL125	\$76.00	(4) 250-500 Cu		
700	2125	7125	SRPK1200A700	\$106.00			SKHA36AT1200	\$7679.00	SKLA36AT1200	\$8586.00					
800	2430	8145	SRPK1200A800	\$106.00		3	2	SKHA26AT1200	\$7057.00	SKLA26AT1200	\$7958.00	TCAL125	\$76.00	(4) 250-500 Al	
900	2735	9160	SRPK1200A900	\$106.00				SKHA36AT1200	\$7679.00	SKLA36AT1200	\$8586.00				
1000	3040	10180	SRPK1200A1000	\$106.00			3	2	SKHA26AT1200	\$7057.00	SKLA26AT1200	\$7958.00	TCAL125	\$76.00	(4) 250-500 Al
1200	3650	12215	SRPK1200A1200	\$106.00					SKHA36AT1200	\$7679.00	SKLA36AT1200	\$8586.00			

Note: All Spectra® breakers UL listed as HACR type.  
All Spectra® breakers marked CE.



# Molded Case Circuit Breakers Industrial Circuit Breaker Accessories

## Rating Plugs

### 60-600A Circuit Breakers, Electronic Trip, Spectra® RMS , with MicroVersaTrip® PM Trip Unit<sup>1</sup>

#### MicroVersaTrip® Plus and PM Rating Plug Selection –

All Plugs List Price \$106.00, GO-135S

Circuit Breaker Frame	Sensor Rating	Rating Plug Rating (Amperes)	Rating Plug Product No.		
SGHB, SGHH, SGLB, SGLL, SGPB, SGPP	150	60	SRPG150B60		
		80	SRPG150B80		
		100	SRPG150B100		
		125	SRPG150B125		
		150	SRPG150B150		
		400	SRPG400B150		
	400	200	200	SRPG400B200	
			225	SRPG400B225	
			250	SRPG400B250	
			300	SRPG400B300	
			350	SRPG400B350	
			400	SRPG400B400	
		600	300	300	SRPG600B300
				400	SRPG600B400
				450	SRPG600B450
			500	500	SRPG600B500
				600	SRPG600B600
				600	SRPG600B600

<sup>1</sup>MicroVersaTrip® PM Trip Units require 24 Vdc control power and voltage sensing signals. Refer to pages 1-12 to 1-14.

Note: All Spectra® breakers UL listed as HACR type.

All Spectra® breakers marked CE.

### 300-1200A Circuit Breakers, Electronic Trip, Spectra® RMS, SK1200 with MicroVersaTrip® Plus and PM<sup>1</sup>

#### Microversatrip® Plus and PM Rating Plug Selection –

All Plugs List Price \$106.00, GO-135S

Circuit Breaker Frame	Sensor Rating	Rating Plug Rating (Amperes)	Rating Plug Product No.		
SKHB, SKHH, SKLB, SKLL, SKPB, SKPP	800	300	SRPK800B300		
		400	SRPK800B400		
		500	SRPK800B500		
		600	SRPK800B600		
		700	SRPK800B700		
		800	SRPK800B800		
		1200	600	600	SRPK1200B600
				700	SRPK1200B700
	800			SRPK1200B800	
	1000		1000	SRPK1200B1000	
			1200	SRPK1200B1200 <sup>2</sup>	

<sup>1</sup>Microversatrip® PM Trip Units require 24 Vdc control power and voltage sensing signals. Refer to pages 1-12 to 1-14.

<sup>2</sup>Not suitable for use with 100% rated, 1000A breaker frame.

Note: All Spectra® breakers UL listed as HACR type.

All Spectra® breakers marked CE.



# Molded Case Circuit Breakers Power Management System Accessories

Spectra® RMS Circuit Breakers with MicroVersaTrip® Plus and MicroVersaTrip® PM Trip Units  
All Devices UL Listed for Factory or Field Installation (UL File No. E-57253)

## Required Accessories

	Type	Accessories
MicroVersaTrip® Plus Trip Unit	Standard	-
	Ground Fault Option with 3-phase, 4-wire or 1-phase, 3-wire service	Neutral Current Sensor and Terminal Block or Neutral Current Sensor and Junction Box
	Control Power Option	Power Supply Plate or Voltage Module <sup>1</sup> or Power Supply Assembly <sup>2</sup>
MicroVersaTrip® PM Trip Unit	Standard or with Protective Relaying	Power Supply Plate and Voltage Conditioner Plate or Voltage Module <sup>1</sup> or Power Supply Assembly <sup>2</sup> and Voltage Conditioner Assembly <sup>2</sup>
	Ground Fault Option with 3-phase, 4-wire or 1-phase, 3-wire service	Junction Box, Cable Harness and Auxiliary Switch
		Neutral Current Sensor

<sup>1</sup>For installation into GE Spectra® Series Switchboards only.

<sup>2</sup>Requires fuse protection and other components; refer to accessory detail for additional information.

## Power Supply Plate

The Power Supply Plate is used to provide +24 Vdc control power to Spectra® RMS Molded Case Circuit Breakers with MicroVersaTrip® PM or MicroVersaTrip® Plus trip systems via the Distribution Cable System. The Power Supply Plate includes the Power Supply Assembly (product number SPSAA) as an integral component and also includes fuse protection for AC source input. Supplemental +24 Vdc input terminals are provided for backup control power applications. Five versions are available. Not suitable for 400 Hz.

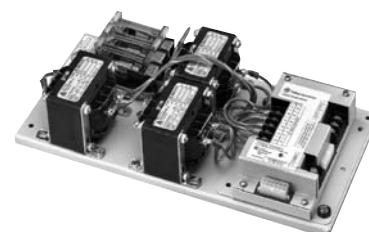


Power Supply Plate

Description	Voltage Rating	Product Number	List Price GO-135PM
The Power Supply Plate is rated 24 watts (+24 Vdc at 1.0 amperes) and has the maximum capacity to power a distribution Cable System consisting of 20 breakers and has a maximum system cable length of 40 feet.	120 Vac	SPSA120	\$1215.00
	208 Vac	SPSA208	\$1215.00
	240 Vac	SPSA240	\$1215.00
	480 Vac	SPSA480	\$1215.00
	600 Vac	SPSA600	\$1215.00

## Voltage Conditioner Plate

The Voltage Conditioner Plate is used to provide voltage sensing signals to Spectra® RMS Molded Case Circuit Breakers with MicroVersaTrip® PM Trip Units via the Distribution Cable System. The Voltage Conditioner Plate includes the Voltage Conditioner Assembly (product number SVCAA) as an integral component and also includes fuse protection for the AC source input terminals and three 1-VA high accuracy potential transformers. The Voltage Conditioner Plate requires a control power source of +24 Vdc to operate properly (the Power Supply Assembly or Power Supply Plate can provide this required input). The unit also requires AC direct voltage inputs from the AC source. A GE POWER LEADER® network (commnet) connection is provided. Seven versions are available. Not suitable for 400 Hz.



Voltage Conditioner Plate

Voltage Rating and Service Type	Comments	Product Number	List Price GO-135PM
120 Vac Wye system	Phase to Neutral potential	SVCA120Y	\$1000.00
208 Vac Wye system	Phase to Phase potential	SVCA208Y	\$1000.00
240 Vac Delta system	Phase to Phase potential	SVCA240D	\$1000.00
277 Vac Wye system	Phase to Neutral potential	SVCA277Y	\$1000.00
480 Vac Wye system	Phase to Phase potential	SVCA480Y	\$1000.00
480 Vac Delta system	Phase to Phase potential	SVCA480D	\$1000.00
600 Vac Delta system	Phase to Phase potential	SVCA600D	\$1000.00

Note: The Voltage Conditioner Plate has the maximum capacity to power a Distribution Cable System consisting of 20 breakers and has a maximum system cable length of 40 feet.

## Distribution Cable Junction Box

The Distribution Cable Junction Box is a modular connector used to provide quick, easy and reliable attachment of Spectra® RMS Molded Case Circuit Breakers with MicroVersaTrip® Plus trip systems or MicroVersaTrip® PM trip systems to the Distribution Cable System. The Junction Box contains two Distribution Cable Harness plugs, one breaker plug and a terminal block for the connection of a neutral current sensor and an auxiliary switch. Product number SDCJBA is for general purpose OEM applications. Product number SDCJBB is designed for mounting in Spectra® Series Panelboards.

Description	Product Number	List Price GO-135PM
Distribution Cable Junction Box	SDCJBA <sup>3</sup>	\$155.00
Distribution Cable Junction Box	SDCJBB	\$155.00

<sup>3</sup>Limited availability—obsolete when inventory depleted.





# Molded Case Circuit Breakers Power Management System Accessories

Spectra® RMS Circuit Breakers with MicroVersaTrip® Plus and MicroVersaTrip® PM Trip Units  
All Devices UL Listed for Factory or Field Installation (UL File No. E-57253)

## Required Accessories

	Type	Accessories
MicroVersaTrip® Plus Trip Unit	Standard	-
	Ground Fault Option with 3-phase, 4-wire or 1-phase, 3-wire service	Neutral Current Sensor and Terminal Block or Neutral Current Sensor and Junction Box
	Control Power Option	Power Supply Plate or Voltage Module <sup>1</sup> or Power Supply Assembly <sup>2</sup>
MicroVersaTrip® PM Trip Unit	Standard or with Protective Relaying	Power Supply Plate and Voltage Conditioner Plate or Voltage Module <sup>1</sup> or Power Supply Assembly <sup>2</sup> and Voltage Conditioner Assembly <sup>2</sup>
	Ground Fault Option with 3-phase, 4-wire or 1-phase, 3-wire service	Junction Box, Cable Harness and Auxiliary Switch
		Neutral Current Sensor

<sup>1</sup>For installation into GE Spectra® Series Switchboards only.

<sup>2</sup>Requires fuse protection and other components; refer to accessory detail for additional information.

## Distribution Cable Harness<sup>3</sup>

The Distribution Cable Harness is a modular connector used to carry electronic signals and/or control power between Spectra® RMS Molded Case Circuit Breakers with MicroVersaTrip® Plus or MicroVersaTrip® PM Trip Units and Distribution Cable accessories. The harnesses come in three lengths.

Description	Harness Length	Product Number	List Price GO-135PM
Distribution Cable Harness	11 inches	SDCHA11	\$70.00
Distribution Cable Harness	30 inches	SDCHA30	\$80.00
Distribution Cable Harness	60 inches	SDCHA60	\$100.00

<sup>3</sup>Cannot be connected together. Use 30 inch Distribution Cable Extension (SDCEA30) to extend.



Distribution Cable Harness

## Distribution Cable Extension

The Distribution Cable Extension is used to provide modular expansion of the Distribution Cable System.

Description	Harness Length	Product Number	List Price GO-135PM
Distribution Cable Extension	30 inches	SDCEA30	\$80.00



Distribution Cable Extension

## Distribution Cable Terminal Block

The Distribution Cable Terminal Block is a modular attachment primarily used to provide an alternate means of input to Spectra® RMS Molded Case Circuit Breakers with MicroVersaTrip® Plus or MicroVersaTrip® PM Trip Units. The Terminal Block plugs into the breaker distribution cable receptacle allowing the direct connection of breaker signals via screw terminals. This allows point-to-point wiring of breakers instead of using the Distribution Cable System.

Description	Product Number	List Price GO-135PM
Distribution Cable Terminal Block	SDCTBA11	\$110.00



Distribution Cable Terminal Block

## Power Supply Assembly

The Power Supply Assembly is used to provide +24 Vdc Control Power to Spectra® RMS Molded Case Circuit Breakers with MicroVersaTrip® Plus or MicroVersaTrip® PM trip systems via the Distribution Cable System. The assembly requires a minimum input voltage of 85 Vac to operate properly (the maximum voltage rating is 240 Vac). Supplemental +24 Vdc input terminals are provided for backup control power applications. The input must be fused with 1/2 ampere class CC fuses (not included). Not suitable for 400 Hz.

Description	Voltage Rating	Product Number	List Price GO-135PM
The Power Supply Assembly is rated 24 watts (+24 Vdc @ 1.0 ampere) and has the maximum capacity to power a Distribution Cable System consisting of 20 breakers and has a maximum system cable length of 40 feet.	85 - 240 Vac	SPSAA	\$1000.00



Power Supply Assembly



# Molded Case Circuit Breakers Power Management System Accessories

Spectra® RMS Circuit Breakers with MicroVersaTrip® Plus and MicroVersaTrip® PM Trip Units  
All Devices UL Listed for Factory or Field Installation (UL File No. E-57253)

## Voltage Conditioner Assembly

The Voltage Conditioner Assembly is used to provide voltage sensing signals to Spectra® RMS Molded Case Circuit Breakers with MicroVersaTrip® PM Trip Units via the Distribution Cable System. The Voltage Conditioner Assembly requires a control power source of +24 Vdc to operate properly (the Power Supply Assembly or Power Supply Plate can provide this required input). The unit also requires 120 Vac voltage inputs from the secondary of three 1-VA high accuracy potential transformers (not included). The primary side of the potential transformers must be fused with three, 1/2 ampere class CC fuses (not included). A GE POWER LEADER® network (commnet) connection is provided. Not suitable for 400 Hz.



Voltage Conditioner Assembly

Description	Voltage Rating	Product Number	List Price GO-135PM
Requires 120 Vac voltage inputs from the secondary of three 1.0 VA high accuracy potential transformers	120 Vac	SVCAA	\$680.00

Note: the Voltage Conditioner Assembly has the maximum capacity to power a Distribution Cable System consisting of 20 breakers and has a maximum system cable length of 40 feet.

## Voltage Modules

The Voltage Module is used primarily as a Spectra® Series Switchboard component to provide +24 Vdc Control Power to Spectra® RMS Molded Case Circuit Breakers with MicroVersaTrip® Plus or MicroVersaTrip® PM Trip Units via the Distribution Cable System. The Module also provides voltage sensing signals to Spectra® RMS Molded Case Circuit Breakers with MicroVersaTrip® PM Trip Units on the same Distribution Cable System. The Module contains both a Power Supply Plate and a Voltage Conditioner as integral components. It also includes fuse protection for the AC source input terminals (the modules pressure connectors which mate with the switchboard interior bus bars). A GE POWER LEADER® Network (commnet) connection is provided as well as supplemental 24 Vdc input terminals for backup control power applications. Seven versions are available. Not suitable for 400 Hz.

Voltage Rating and Service Type	Comments	Product Number	List Price GO-135PM
120 Vac Wye system	Phase to Neutral potential	ADSVMA120Y	\$2350.00
208 Vac Wye system	Phase to Phase potential	ADSVMA208Y	\$2350.00
240 Vac Delta system	Phase to Phase potential	ADSVMA240D	\$2350.00
277 Vac Wye system	Phase to Neutral potential	ADSVMA277Y	\$2350.00
480 Vac Wye system	Phase to Phase potential	ADSVMA480Y	\$2350.00
480 Vac Delta system	Phase to Phase potential	ADSVMA480D	\$2350.00
600 Vac Delta system	Phase to Phase potential	ADSVMA600D	\$2350.00

Note: The Voltage Module has the maximum capacity to power a Distribution Cable System consisting of 20 breakers and has a maximum system cable length of 40 feet.



Voltage Module Exterior View



Voltage Module Interior View



# Molded Case Circuit Breakers Accessories—Other

Spectra® RMS Circuit Breakers with MicroVersaTrip® Plus and MicroVersaTrip® PM Trip Units  
All Devices UL Listed for Factory or Field Installation Except Where Noted

## Neutral Current Sensor

The neutral current sensor is used in conjunction with breakers that have a MicroVersaTrip® Plus or MicroVersaTrip® PM Trip Unit with the optional ground fault function and the breaker is connected to a grounded neutral service (3-phase, 4-wire or 1-phase, 3-wire). The neutral current sensor provides an input signal to the breaker trip unit. Breakers connected to a service without a neutral (3-phase, 3-wire) require no external connection or shorting of the breaker cable connector for ground fault to function properly.

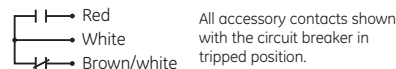
Breaker Type	Sensor Rating (S)	Product Number	List Price GO-1355
SG	150	TSRG201	\$532.00
SG	400	TSRG204	\$532.00
SG	600	TSRG206	\$532.00
SK	800	TSKG408	\$532.00
SK	1200	TSKG412	\$532.00

## Internal Accessories, Spectra® RMS Circuit Breakers

### Auxiliary Switch

Auxiliary switches provide remote indication of whether the circuit breaker main contacts are opened or closed via open or closed SPDT switch elements.

Switch Rating	Number of Switch Elements	Auxiliary Switch Product Number	List Price GO-1355
5A @240 Vac/ 0.5A @ 125 Vdc	1 form C	SAUXPAB1	\$149.00
	2 form C	SAUXPAB2	\$295.00
Gold-Plated Contacts	1 form C	SAUXGAB1	\$149.00
0.5A @ 30V One each of above types	2 form C	SAUXGAB2	\$295.00
	2 form C	SAUXGPAB2	\$295.00



Auxiliary Switch

### Shunt Trip

For remote tripping of breaker, use with momentary close contact. Not recommended for use with latching relay contact since electronics in shunt trip will pulse power to the coil if continuously energized, and breaker shunt tripping upon reclosure will be delayed 1-2 seconds at rated control voltage. (A short-circuit trip would be instantaneous.)

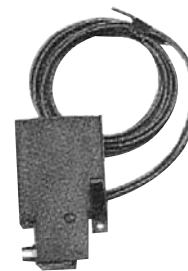
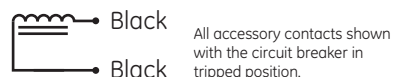
If maintained (latching relay) contact must be used and delayed shunt tripping is not acceptable, use small bell alarm in series with control power for SE150 and SF250 frames and auxiliary switch for SG600 and SK1200 breakers.

These devices are suitable for use with ground fault sensing and relaying equipment. Maximum VA is 75. AC devices are UL listed for 50-60 Hz.

Voltage		Current (mA)		Product Number	List Price GO-1355
ac	dc	Inrush	Cont		
120	125	500	6.0	SAST1	\$363.00
240	250	400	5.0	SAST2	\$363.00
—	12	1000	800	SAST5 <sup>1</sup>	\$363.00
24	24	300	10.0	SAST3	\$363.00
48	48	300	10.0	SAST4	\$363.00

<sup>1</sup>Not suitable for use with ground fault sensing and relaying equipment.

Note: UL listed at 200,000 AIC without internal accessories, 100,000 AIC with internally mounted accessories.



Shunt Trip



# Molded Case Circuit Breakers

## Internal Accessories

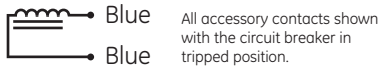
### Spectra® RMS Circuit Breakers

#### Undervoltage Release

The undervoltage release provides automatic circuit breaker tripping when there is a power loss or major dip (to 35%-70% of rated voltage) in accessory control voltage. AC devices are UL listed for 50-60 Hz. Product number SAUV1 may be used with time delay unit SPUVTD (List Price \$430.00, GO-245B) (delay 0.1 to 1.0 seconds), 120 Vac input, 125 Vdc output.

Voltage		Peak Current (mA)	Product Number	List Price GO-135S
ac	dc			
120	125	200	SAUV1	\$363.00
240	250	200	SAUV2	\$363.00
24	24	100	SAUV3	\$363.00
48	48	100	SAUV4	\$363.00
120	125		SPUVTD	\$430.00 <sup>1</sup>

<sup>1</sup>GO-245B.

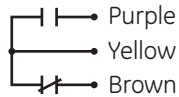


#### Bell Alarm Switch

The bell alarm switch provides remote indication of whether the circuit breaker has been tripped via open or closed SPDT switch elements, but remains unchanged during "On/Off" circuit breaker operation and during operation by the "Push-to-Trip" button.

Switch Rating	Number of Switch Elements	Product Number	List Price GO-135S
5A @ 240 Vac/ 0.5A @ 125 Vdc	1 form C	SABAP1	\$154.00
Gold-Plated Contacts 0.5A @30V	1 form C	SABAG1	\$154.00

Note: UL listed at 200,000 AIC without internal accessories, 100,000 AIC with internally mounted accessories.



All accessory contacts shown with the circuit breaker in tripped position.

#### Actuator

All Spectra® circuit breakers are supplied with an actuator installed in the left-side pouch. The actuator is removed when installing either a shunt trip or undervoltage release.

Description	Product Number	List Price GO-148C
Replacement Actuator	SACTUATOR	\$250.00



Undervoltage Release



Bell Alarm Switch

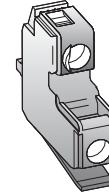


# Molded Case Circuit Breakers Accessories

Record Plus® FC 100

## Contacts – Auxiliary and Bell Alarm (Rated 5A @240VAC, 0.5A @125VDC)

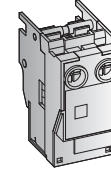
Accessory	Normally Open		Normally Closed	
	Product No.	List Price GO-135H	Product No.	List Price GO-135H
Aux. Switch Right Mounted	FAS10RW	\$149.00	FAS01RW	\$149.00
Aux. Switch Left Mounted	FAS10LW	\$149.00	FAS01LW	\$149.00
Bell Alarm Mechanism	FABAM10W	\$154.00	FABAM01W	\$154.00



Auxiliary Switch/Bell Alarm Mechanism

## Releases – Shunt Trip and Undervoltage

Voltage	Shunt Trip			Undervoltage Release		
	Rating (Inrush Power Consumption)	Product No.	List Price GO-135H	Rating (Inrush Power Consumption)	Product No.	List Price GO-135H
12 VDC	200 mA / 2.4W	FASHTBW	\$363.00	—	—	—
24 VAC/DC	100 mA / 3.6W	FASHTDW	\$363.00	50 mA / 1.2W	FAUVRDW	\$363.00
48 VAC/DC	60 mA / 2.88W	FASHTFW	\$363.00	20 mA / 0.96W	FAUVRFW	\$363.00
120 VAC	40 mA / 4.8W	FASHTKW	\$363.00	—	—	—
110/130 VAC/DC	40 mA / 4.8W	FASHTJW	\$363.00	15 mA / 1.8W	FAUVRJW	\$363.00
220/240 VAC, 250 VDC	20 mA / 4.6W	FASHTNW	\$363.00	15 mA / 3.45W	FAUVRNW	\$363.00
277 VAC	11 mA / 3.0W	FASHT7W	\$363.00	15 mA / 4.0W	FAUVR7W	\$363.00
400/480 VAC	20 mA / 8.4W	FASHTUW	\$363.00	15 mA / 6.3W	FAUVRUW	\$363.00



Shunt Trip/Undervoltage Release

## External Accessories

### Lugs and Lug Kits

Amp Range	Wire Range	Strip Length	Single Lug Product No.	List Price GO-135H	Lug Kit Product No. (Set of 3)	List Price GO-135H
15-20A	14-10 Cu/Al	.40-.50"	FCAL12	\$3.25	FCALK12	\$9.00
25-60A	10-4 Cu/Al	.40-.50"	FCAL13	\$3.25	FCALK13	\$9.00
70-100A	4-1/0 Cu/Al	.40-.50"	FCAL14	\$3.25	FCALK14	\$9.00



# Molded Case Circuit Breakers Accessories

## Record Plus® FE 250

### Breaker Frames & Ratings Plugs

#### FE Rating Plugs

Trip Curve	CT Rating	Rated Current	Product No.	List Price GO-135H	
DES-200	25A	20 A	FERP3B0020	\$106.00	
		25 A	FERP3B0025	\$106.00	
		30 A	FERP3D0030	\$106.00	
	60A	40 A	FERP3D0040	\$106.00	
		50 A	FERP3D0050	\$106.00	
		60 A	FERP3D0060	\$106.00	
		70 A	FERP3G0070	\$106.00	
		80 A	FERP3G0080	\$106.00	
	125A	90 A	FERP3G0090	\$106.00	
		100 A	FERP3G0100	\$106.00	
		110 A	FERP3G0110	\$106.00	
		125 A	FERP3G0125	\$106.00	
		150A	150 A	FERP3H0150	\$106.00
			175 A	FERP3K0150	\$106.00
			200 A	FERP3K0200	\$106.00
250A	225 A	FERP3K0225	\$106.00		
	250 A	FERP3K0250	\$106.00		

### Internal and External Accessories

#### Bell Alarm

Contact Configuration	Contact Rating	Wire leads	Product No.	List Price GO-135H
1 NO (Form A)	5A @ 277 VAC, 0.3A @ 125 VDC	#16 AWG	FABAM10W	\$154.00
1 NC (Form B)	5A @ 277 VAC, 0.3A @ 125 VDC	#16 AWG	FABAM01W	\$154.00

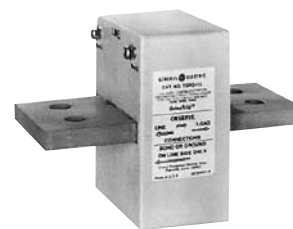
UL Listed for field installation. Accessories are prewired from the factory with 36 inch long leads. Reference instruction sheet DEH-40324 for wire lead colors.

### Neutral Grounds and Sensors

#### Neutral Current Sensors

For grounded neutral system ground fault applications

Breaker Type	Ampere Rating	Product Number	List Price GO-135S
J	150	TSRG201	\$532.00
	200	TSRG202	\$532.00
	300	TSRG203	\$532.00
	400	TSRG204	\$532.00
	500	TSRG205	\$532.00
	600	TSRG206	\$532.00
K	800	TSKG408	\$532.00
	1000	TSKG410	\$532.00
	1200	TSKG412	\$532.00



Neutral Current Sensor



# Insulated Case Circuit Breakers

## Circuit Breakers History/Timeline

### GE Insulated Case Circuit Breakers History/Timeline

<b>1965</b>	GE pioneered the design of insulated case circuit breakers when it introduced the original Power Break® circuit breaker.
<b>1995</b>	GE introduced Power Break® II insulated case circuit breakers, the vanguard of a new age in reliable, flexible and easy-to-use circuit protection.

### Evolution of the GE Trip Unit

<b>1965</b>	Dual Magnetic Trip
<b>1975</b>	VersaTrip Solid State Trip
<b>1979</b>	VersaTrip Mod 2 Solid State Trip
<b>1979</b>	Magnetrip-Dual Mag
<b>1979</b>	SelecTrip
<b>1982</b>	MicroVersaTrip®
<b>1988</b>	MicroVersaTrip® RMS 9
<b>1989</b>	MicroVersaTrip® RMS 9 / Epic
<b>1994</b>	MicroVersaTrip® Plus/PM
<b>1995</b>	Enhanced MicroVersaTrip® Plus/PM
<b>1996</b>	Power Break® II MicroVersaTrip® Plus/PM
<b>1997</b>	Power Break® II Powerplus
<b>2009</b>	EntelliGuard® TU

This catalog contains replacement parts, retrofits, accessories, and older generation products. For current generation products, please see the GE BuyLog® or Control Catalog.



# Insulated Case Circuit Breakers Power Break® II Circuit Breaker Price Accessories

Enhanced MicroVersaTrip®, Rating Plug Selection

## Power Break® II Rating Plug Selection

Frame Size (Amperes)	Sensor Rating (Amperes)	Current Rating (Amperes)	Power+ Trip Unit Standard	Power+ Trip Unit Ground	Enhanced MicroVersaTrip® Plus and Enhanced MicroVersaTrip® PM Trip Unit	
			Rating Plugs List Price \$89.00 GO-245A	Fault Rating Plugs List Price \$747.00 GO-245A	Rating Plugs List Price \$89.00 GO-245A	
800	200	100	TR2C100	TR2C100GF	TR2B100	
		150	TR2C150	TR2C150GF	TR2B150	
		200	TR2C200	TR2C200GF	TR2B200	
	400	150	-	-	TR4B150	
		200	TR4C200	TR4C200GF	TR4B200	
		225	TR4C225	TR4C225GF	TR4B225	
800-1600	400	250	TR4C250	TR4C250GF	TR4B250	
		300	TR4C300	TR4C300GF	TR4B300	
		400	TR4C400	TR4C400GF	TR4B400	
		300	-	-	TR8B300	
	800	400	TR8C400	TR8C400GF	TR8B400	
		450	TR8C450	TR8C450GF	TR8B450	
		500	TR8C500	TR8C500GF	TR8B500	
		600	TR8C600	TR8C600GF	TR8B600	
1600	1000	700	TR8C700	TR8C700GF	TR8B700	
		800	TR8C800	TR8C800GF	TR8B800	
	1000	400	-	-	TR10B400	
		600	TR10C600	TR10C600GF	TR10B600	
	1600	800	TR10C800	TR10C800GF	TR10B800	
		1000	TR10C1000	TR10C1000GF	TR10B1000	
		600	-	-	TR16B600	
		800	TR16C800	TR16C800GF	TR16B800	
		1000	TR16C1000	TR16C1000GF	TR16B1000	
		1100	TR16C1100	TR16C1100GF	TR16B1100	
2000	1600	1200	TR16C1200	TR16C1200GF	TR16B1200	
		1600	TR16C1600	TR16C1600GF	TR16B1600	
	2000	750	-	-	TR20B750	
		800	-	-	TR20B800	
	2500	2000	1000	TR20C1000	TR20C1000GF	TR20B1000
			1200	TR20C1200	TR20C1200GF	TR20B1200
		1000	1500	TR20C1500	TR20C1500GF	TR20B1500
			1600	TR20C1600	TR20C1600GF	TR20B1600
			2000	TR20C2000	TR20C2000GF	TR20B2000
			400	-	-	TR10B400
3000	2000	600	TR10C600	TR10C600GF	TR10B600	
		800	TR10C800	TR10C800GF	TR10B800	
	2500	1000	TR10C1000	TR10C1000GF	TR10B1000	
		750	-	-	TR20B750	
	4000	2000	800	-	-	TR20B800
			1000	TR20C1000	TR20C1000GF	TR20B1000
		2500	1200	TR20C1200	TR20C1200GF	TR20B1200
			1500	TR20C1500	TR20C1500GF	TR20B1500
			1600	TR20C1600	TR20C1600GF	TR20B1600
			2000	TR20C2000	TR20C2000GF	TR20B2000
4000	2500	1600	TR25C1600	TR25C1600GF	TR25B1600	
		2000	TR25C2000	TR25C2000GF	TR25B2000	
	3000	2500	TR25C2500	TR25C2500GF	TR25B2500	
		1200	-	-	TR30B1200	
		1600	-	-	TR30B1600	
		2000	TR30C2000	TR30C2000GF	TR30B2000	
4000	3000	2500	TR30C2500	TR30C2500GF	TR30B2500	
		3000	TR30C3000	TR30C3000GF	TR30B3000	
	4000	1600	TR40C1600	TR40C1600GF	TR40B1600	
		2000	TR40C2000	TR40C2000GF	TR40B2000	
		2500	TR40C2500	TR40C2500GF	TR40B2500	
		3000	TR40C3000	TR40C3000GF	TR40B3000	
4000	3600	TR40C3600	TR40C3600GF	TR40B3600		
	4000	TR40C4000	TR40C4000GF	TR40B4000		

## Power+ Target Module

Power+ trip units are designed to accept an optional field-installable target module. The target module indicates long-time pickup, battery status, trip unit health status, and whether a breaker trip was caused by an overload, a short circuit or a ground fault. Target modules are available with or without ground fault indication.

Trip Indicator		Product Number	List Price
L/ST/1	Ground Fault		
-	-	TARGET00	\$60.00
•	-	TARGET01	\$140.00
•	•	TARGET02	\$160.00



MicroVersaTrip® and MicroVersaTrip® PM Rating Plug



Power+ Trip Target Module





# Insulated Case Circuit Breakers Power Break® II Circuit Breaker Accessories

## Stationary and Draw-out Breaker Accessories

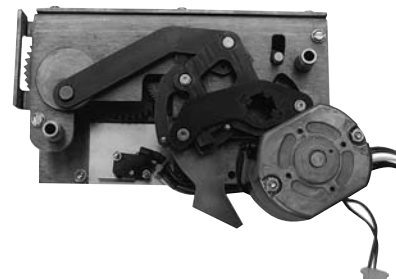
All devices UL Listed for factory or field installation except where noted.

### Accessories—Stationary and Draw-out Breakers

The complete line of Power Break® II breaker accessories may be either factory or field installed to meet user needs. The electronic shunt trip, the bell alarm, the bell alarm with mechanical lockout, and the undervoltage release modules are drop-in from the front of the breaker, interchangeable across all frames, and require no field internal wiring or breaker disassembly. Auxiliary switch modules are available in groups of 4, 8 or 12, NO/NC single-pole, double-throw (SPDT) switches. Their installation simply involves removal of breaker cover, installation of the switch module, routing of wiring and installation of the pre-wired terminal block and re-installation of the cover. Auxiliary switches are also interchangeable across all Power Break® II breaker frames.

### Electrical Operator

The electrical operator mounts inside the front cover of the manually operated breaker. This accessory can be added to any Power Break® II breaker in the factory or the field to provide electrical spring charging and charge indication. **For remote closing, the remote close solenoid must be priced and ordered separately.** All breakers are prewired to dedicated secondary terminals for easy field installation. When electrical operation is used, either a shunt trip or an undervoltage release must be ordered and priced separately.

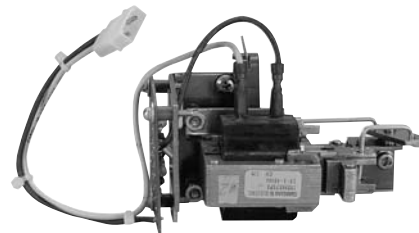


Electrical Operator

Ratings Vac	Ratings Vdc	Field Installable Product Number	List Price GO-245B	Factory Installed Product Number	List Price GO-245B
120	-	SPE120R	\$1671.00	SPE120	\$1838.00
240	-	SPE240R	\$1869.00	SPE240	\$2056.00
-	24	SPE024R	\$1869.00	SPE024	\$2056.00
-	48	SPE048R	\$1869.00	SPE048	\$2056.00
-	72	SPE072R	\$1869.00	SPE072	\$2056.00
-	125	SPE125R	\$1869.00	SPE125	\$2056.00

### Remote Close Solenoid

This accessory provides an electrically operated solenoid which, when energized, closes the breaker. It is suitable for control interlock schemes in which manual closing capability would not be convenient or desirable. The breaker is provided with a manual close button, which can be replaced by the Hidden "ON" Button accessory and/or sealed using the Limited Access Pushbutton Cover accessory. The remote close accessory is continuously rated and has an anti-pump feature, which prevents a motor operated breaker from repeatedly closing into a fault. Closing control voltage must be removed and re-applied for each breaker closure.



Remote Close Solenoid

Ratings Vac	Ratings Vdc	Field Installable Product Number	List Price GO-245B	Factory Installed Product Number	List Price GO-245B
120	-	SPRCS120R	\$286.00	SPRCS120	\$315.00
240	-	SPRCS240R	\$286.00	SPRCS240	\$315.00
-	24	SPRCS024R	\$286.00	SPRCS024	\$315.00
-	48	SPRCS048R	\$286.00	SPRCS048	\$315.00
-	72	SPRCS072R	\$286.00	SPRCS072	\$315.00
-	125	SPRCS125R	\$286.00	SPRCS125	\$315.00



# Insulated Case Circuit Breakers Power Break® II Circuit Breaker Accessories

## Stationary and Draw-out Breaker Accessories

All devices UL Listed for factory or field installation except where noted.

### Shunt Trip

The shunt trip accessory is an electronic module, which provides remote control capability to open the circuit breaker. When activated, the shunt trip module sends a signal to the trip unit to open the breaker. This allows the trip unit to record, display, distinguish and communicate (in MicroVersaTrip® PM trip units) that the opening event was initiated by the shunt trip device. The shunt trip is continuously rated and requires no cut-off switch. When energized, the shunt trip supplies +24Vdc power to the trip unit to power the display.



Shunt Trip Module

Ratings Vac	Ratings Vdc	Field Installable Product Number	List Price GO-245B	Factory Installed Product Number	List Price GO-245B
-	12	SPST012R	\$301.00	SPST012	\$328.00
24	24	SPST024R	\$301.00	SPST024	\$328.00
48	48	SPST048R	\$301.00	SPST048	\$328.00
120	125	SPST120R	\$301.00	SPST120	\$328.00
208	-	SPST208R	\$301.00	SPST208	\$328.00
240	250	SPST240R	\$301.00	SPST240	\$328.00
480	-	SPST480R <sup>1</sup>	\$301.00	SPST480 <sup>1</sup>	\$328.00
600	-	SPST600R <sup>1</sup>	\$301.00	SPST600 <sup>1</sup>	\$328.00

<sup>1</sup>Kit contains externally mounted transformer.

### Shunt Trip with Lockout Module

The shunt trip with lockout is identical to the regular shunt trip, but when energized, it will also prevent closure of an "open" breaker by mechanically blocking both manual and electrical closing. When energized, the closing springs will not discharge, the movable contacts will not move; the contacts are "kiss free."

Ratings Vac	Ratings Vdc	Field Installable Product Number	List Price GO-245B	Factory Installed Product Number	List Price GO-245B
-	12	SPSTL012R	\$401.00	SPSTL012	\$428.00
24	24	SPSTL024R	\$401.00	SPSTL024	\$428.00
48	48	SPSTL048R	\$401.00	SPSTL048	\$428.00
120	125	SPSTL120R	\$401.00	SPSTL120	\$428.00
208	-	SPSTL208R	\$401.00	SPSTL208	\$428.00
240	250	SPSTL240R	\$401.00	SPSTL240	\$428.00
480	-	SPSTL480R <sup>1</sup>	\$401.00	SPSTL480	\$428.00
600	-	SPSTL600R <sup>1</sup>	\$401.00	SPSTL600	\$428.00

<sup>1</sup>Kit contains externally mounted transformer.



# Insulated Case Circuit Breakers Power Break® II Circuit Breaker Accessories

## Stationary and Draw-out Breaker Accessories

All devices UL Listed for factory or field installation except where noted.

### Undervoltage Release Module

The undervoltage release is an electronic module used to open the circuit breaker when the monitored voltage drops below 35-60% of its rated value. The undervoltage release "resets" when the monitored voltage is re-established allowing the circuit breaker to re-close (the sealing voltage of the UVR is 60-85% of its rated voltage).

An undervoltage release trip operation is produced by the MicroVersaTrip® Plus unit in response to a signal from the undervoltage release module. This allows the trip unit to record, display, distinguish and communicate (in MicroVersaTrip® PM trip units) that the breaker opening event was due to undervoltage release. Operation of the undervoltage release module will prevent breaker contact closure, i.e. "kiss-free" operation. When energized, the undervoltage release supplies +24 Vdc power to the trip unit to power the display.



Undervoltage Release Module

Ratings Vac	Ratings Vdc	Field Installable Product Number	List Price GO-245B	Factory Installed Product Number	List Price GO-245B
24	-	SPUV024ACR	\$301.00	SPUV024AC	\$328.00
48	-	SPUV048ACR	\$301.00	SPUV048AC	\$328.00
120	-	SPUV120ACR	\$301.00	SPUV120AC	\$328.00
208	-	SPUV208ACR	\$301.00	SPUV208AC	\$328.00
240	-	SPUV240ACR	\$301.00	SPUV240AC	\$328.00
480	-	SPUV480ACR <sup>1</sup>	\$301.00	SPUV480AC <sup>1</sup>	\$328.00
600	-	SPUV600ACR <sup>1</sup>	\$301.00	SPUV600AC <sup>1</sup>	\$328.00
-	12	SPUV012DCR	\$301.00	SPUV012DC	\$328.00
-	24	SPUV024DCR	\$301.00	SPUV024DC	\$328.00
-	48	SPUV048DCR	\$301.00	SPUV048DC	\$328.00
-	125	SPUV125DCR	\$301.00	SPUV125DC	\$328.00
-	250	SPUV250DCR	\$301.00	SPUV250DC	\$328.00

<sup>1</sup>Kit contains externally mounted transformer.

### Time Delay Module for UVR

The time delay module prevents nuisance tripping due to momentary loss of voltage. The module has 120 Vac input and 125 Vdc output and must be used with the 125 Vdc UVR.

Description	Product Number	List Price GO-245B
Time Delay Module (0.1 to 1.0 second delay)	SPUVTD	\$430.00

### Bell Alarm (Alarm Only)

The bell alarm module is used to signal breaker "tripped" status to other accessories (e.g., external alarm devices, indicating lights, relays, or logic circuits) for remote indication and interlocking functions. The bell alarm response is configurable by means of rear-mounted DIP switches on the trip unit. The bell alarm can be made to operate in response to an overcurrent (including ground fault) or protective relay trip and/or a shunt trip operation, and/or operation of the undervoltage release module. It is not actuated as a result of normal breaker "ON/OFF" operation.

This module provides a visual, mechanical pop-out target, which protrudes through the face of the circuit breaker door when it operates. The bell alarm may be reset manually by depressing the mechanical target, or automatically by closing the breaker.

The bell alarm is provided with one SPDT switch with control power duty contacts as shown in the auxiliary switch accessories.



Bell (Alarm Only)

Ratings Vac	Ratings Vdc	Field Installable Product Number	List Price GO-245B	Factory Installed Product Number	List Price GO-245B
240	125-250	SPBAA240R	\$124.00	SPBAA240	\$135.00
600	125-250	SPBAA600R <sup>1</sup>	\$124.00	SPBAA600 <sup>2</sup>	\$135.00

<sup>2</sup>600 Vac module not UL Listed.



# Insulated Case Circuit Breakers Power Break® II Circuit Breaker Accessories

## Stationary and Draw-out Breaker Accessories

All devices UL Listed for factory or field installation except where noted.

### Bell Alarm With Lockout

The bell alarm with lockout module combines both the bell alarm and a manual lockout function. The bell alarm switch operates identically to the standard bell alarm module, except that the mechanical pop-out target must be manually reset before the breaker can be closed.

Operation of the bell alarm with lockout module can be independently set by means of setting the DIP switches at the rear of the trip unit. Current rating of the single SPDT switch is identical to the auxiliary switch accessories.



Bell Alarm with Mechanical Reset Lockout

Ratings Vac	Ratings Vdc	Field Installable Product Number	List Price GO-245B	Factory Installed Product Number	List Price GO-245B
240	125-250	SPBAL240R	\$124.00	SPBAL240	\$135.00
600	125-250	SPBAL600R <sup>1</sup>	\$124.00	SPBAL600 <sup>1</sup>	\$135.00

<sup>1</sup>600 Vac module not UL Listed.

### Auxiliary Switch

An auxiliary switch signals the circuit breaker's primary contact position (i.e., OPEN or CLOSED) to other devices, such as indicating lights, relays or logic circuits. This enables the user to provide remote indication, interlocking or control operations as a function of breaker primary contact position. The auxiliary switch operation is independent of the method by which the breaker is opened or closed. The auxiliary switch does not distinguish between a "tripped" or "open" condition. The auxiliary switch contacts follow the main breaker contacts on opening and precede them on closing.

Auxiliary switch modules are available with 4, 8 or 12 NO/NC (SPDT) switches for control power duty ac/dc ratings. When ordered for field installation, an auxiliary switch module comes pre-wired to its own terminal board, which mounts with one screw to the left of the breaker. A special accessory, available for draw out breakers, comes pre-wired to the breaker secondary disconnect. All switch ratings are 6A at 120V-600 Vac, 1/2A at 125 Vdc and 1/4A at 250 Vdc.



Auxiliary Switch with Pre-wired Secondary Terminals for Stationary Breaker

### Auxiliary Switches for Stationary Breakers

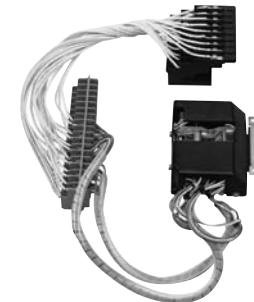
Ratings Vac	Ratings Vdc	No. of SPDT Switch Elements (Contacts)	Field Installable Product Number	List Price GO-245B	Factory Installed Product Number	List Price GO-245B
240	125-250	4	SPAS240AB4R	\$268.00	SPAS240AB4	\$293.00
240	125-250	8	SPAS240AB8R	\$564.00	SPAS240AB8	\$616.00
240	125-250	12	SPAS240AB12R	\$651.00	SPAS240AB12	\$710.00
600	125-250	4	SPAS600AB4R <sup>1</sup>	\$268.00	SPAS600AB4 <sup>1</sup>	\$293.00
600	125-250	8	SPAS600AB8R <sup>1</sup>	\$564.00	SPAS600AB8 <sup>1</sup>	\$616.00

<sup>1</sup>600 Vac module not UL Listed.

### Auxiliary Switches for Draw-out Breakers

Ratings Vac	Ratings Vdc	No. of SPDT Switch Elements (Contacts)	Field Installable Product Number	List Price GO-245B	Factory Installed Product Number	List Price GO-245B
240	125-250	4	SPAS240AB4DR	\$551.00	SPAS240AB4D	\$576.00
240	125-250	8	SPAS240AB8DR	\$847.00	SPAS240AB8D	\$899.00
240	125-250	12	SPAS240AB12DR	\$934.00	SPAS240AB12D	\$993.00
600	125-250	4	SPAS600AB4DR <sup>1</sup>	\$551.00	SPAS600AB4D <sup>1</sup>	\$576.00
600	125-250	8	SPAS600AB8DR <sup>1</sup>	\$847.00	SPAS600AB8D <sup>1</sup>	\$899.00

<sup>1</sup>600 Vac module not UL Listed.



Auxiliary Switch with Pre-wired Secondary Terminals for Draw-out Breaker



# Insulated Case Circuit Breakers Power Break® II Circuit Breaker Accessories

## Stationary and Draw-out Breaker Accessories

All devices UL Listed for factory or field installation except where noted.

### Mechanical Operations Counter

The mechanical operations counter is mounted behind the front cover of the breaker. It is viewable through a rectangular knockout window opening in the breaker cover. It is a five-digit, non-resettable counter, which is actuated each time the breaker is opened by any means.

Field Installed Product Number	List Price GO-245B	Factory Installed Product Number	List Price GO-245B
SPCOUNTER	\$100.00	SPCOUNTER	\$125.00



Mechanical Operations Counter

### Limited Access Pushbutton Cover

This accessory limits access to "ON/OFF" control of a breaker to authorized personnel. The pushbutton cover accessory consists of transparent hinged covers that can be individually sealed to the limited access assembly. Both the "ON" and "OFF" buttons can be pilot drilled to allow use of a 1/8" rod to operate either one or both pushbuttons.

Field Installed Product Number	List Price GO-245B	Factory Installed Product Number	List Price GO-245B
SPPBCOVER	\$80.00	SPPBCOVER	\$90.00



Breaker with limited access pushbutton cover assembly installed

### Hidden "ON" Button

The hidden "ON" button is assembled to the mechanism behind an unlabeled, false pushbutton. Manual closing of the breaker can only be performed by means of a small diameter rod. This accessory is used to limit access to the manual "ON" control to authorized personnel.

Field Installed Product Number	List Price GO-245B	Factory Installed Product Number	List Price GO-245B
SPPBNONR	\$64.00	SPPBNON	\$64.00



Activating the breaker closing mechanism through the hole in the Hidden "ON" Button

### Maintenance/Repair Parts

Description	Product Number	List Price	GO Schedule
Top Cover and Rating Labels	SPBII-REPLACE_COVER <sup>1</sup>	\$600.00	148C
Replacement MVT Door	10054335P1	\$20.00	148G
Replacement Powerplus Door	10054335P2	\$16.00	148G
Stop Block Kit w/Installation Tool	SPBUMPKIT	\$175.00	148C
Stop Block Kit (no tools)	SPBUMPNTKIT	\$90.00	148C

<sup>1</sup>Special handling and order entry required to preserve UL Listing of breaker. Contact Post Sale Service for additional details of special process.



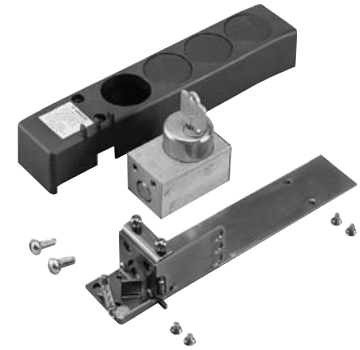
# Insulated Case Circuit Breakers Power Break® II Circuit Breaker Accessories

## Stationary and Draw-out Breaker Accessories

All devices UL Listed for factory or field installation except where noted.

### Key Interlock Provisions

The key interlock provision enables the user to mount a one- to four-cylinder, narrow-faced, Kirk-type FN or Superior customer-supplied lock on the face of the breaker. This accessory provides mounting for key interlocks that are furnished by the customer. The key interlock provision works in conjunction with the padlock provision. The key interlock extends a lever through the padlock hasp when the key is turned to the key removal or bolt extended position. Additionally, the accessory provides a hasp for mounting three padlocks with 1/4" to 3/8" diameter shanks.



Key Interlock Kit (lock not included)

### Product Numbers, Key Interlock Provisions

Circuit Breaker Envelope Size (Amps)	Number of Key Locks	Field Installed Product Number	List Price GO-245B	Factory Installed Product Number	List Price GO-245B
All	1 to 4	SPK4R	\$355.00	SPK4	\$426.00

### Door Interlock

The door interlock provides interlocking of the circuit breaker compartment's hinged door so that the breaker must be in the "OFF" position before the door can be opened. The door interlock is defeatable with a small tool to allow authorized access.

Field Installed Product Number	List Price GO-245B	Factory Installed Product Number	List Price GO-245B
SPDILR	\$173.00	SPDIL	\$208.00



Door Interlock

### Padlock Provisions (Standard)

Padlocking provisions are standard on all Power Break® II circuit breakers. When the breaker is in the open position, and the padlock hasp is raised at least 1/4", the breaker cannot be closed mechanically or electrically. The hasp accepts up to three padlocks with 1/4" to 3/8" diameter shanks.

### Walking Beam Interlocks—Stationary Breakers Only

Walking beam interlocks are mechanical devices used to prevent two adjacent circuit breakers from both being in the "ON" or closed position at the same time. However, both breakers can be in the "OFF" or open position.

Circuit Breaker Envelope Size (Amperes)	Product Number	List Price GO-245B
800, 1600 and 2000	SPWB20	\$1228.00
3000	SPWB30	\$1228.00
4000	SPWB40	\$1228.00



# Insulated Case Circuit Breakers Power Break® II Circuit Breaker Accessories

## Stationary Breaker Mounting Kits

All devices UL Listed for factory or field installation except where noted.

### Lug Adapter Kits

Kits pre-mount to bus structure allowing cabling or bussing to be completed prior to breaker mounting. Accepts either lugs or crimp-type connector terminals. Kit includes adapter and hardware for either a three-pole line-side, or a three-pole load-side connection. (Lugs not included).

Frame Rating (Amperes)	Product Number	Suitable for use with up to:	List Price GO-245B
800	TPLUGA08	3 TPLUG108 Lugs or 3 crimp Lugs <sup>1</sup> per pole	\$78.50
1600	TPLUGA16 <sup>2</sup>	6 TPLUG108 lugs or 6 crimp Lugs <sup>1</sup> per pole	\$389.00
2000	SPLUGA20 <sup>3</sup>	6 TPLUG108 Lugs or 6 crimp Lugs <sup>1</sup> per pole	\$487.00

<sup>1</sup>Anderson No. VCEL-075-12H1 or equivalent

<sup>2</sup>T-Studs - TP16FCA - included with adapter

<sup>3</sup>T-Studs - SP20FCA - included with adapter

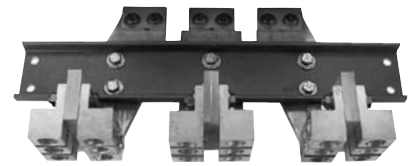
### Lug Kits

Kits accept Cu/Al wire and are suitable for direct mounting to the breaker. When ordering Type TPLUG kits, order one kit per line or load pole. Example: A complete set of lugs for the line side of an 800A frame, 400A trip breaker would be Qty 3-TPLUG106 lugs.

When ordering TSLUG kits order one kit per line or load side; TSLUG kits require use of T-studs. Example: A complete set of lugs for a 3000A frame, 2500A trip breaker would be Qty 1-TSLUG25. T-Studs would also be required.

Circuit Breaker Envelope Size (Amperes)	Max Rating (Amperes)	Product Number	Lug Per Kit	Max. Cables Per Pole	Wire Range kcmil Cu/Al	List Price GO-245B
800	400	TPLUG106	1	1	(2) #2 2-600	\$18.50
	600	TPLUG206	1	2	(2) #2 2-600	\$27.50
	800	TPLUG308	1	3	(3) 300-750	\$32.00
	800	TPLUG108 <sup>4</sup>	1	3	3/0-800	\$23.00
1600	800	TPLUG108 <sup>4</sup>	1	6	3/0-800	\$23.00
	1600	TPLUG408	1	4	500-800	\$39.00
	2000	TPLUG108 <sup>4</sup>	1	6	3/0-800	\$23.00
2000	800	TSLUG08	9	3	3/0-800	\$274.00
	1200	TSLUG12	12	4	3/0-800	\$296.00
	1600	TSLUG16	15	5	3/0-800	\$345.00
3000	2000	TSLUG20	18	6	3/0-800	\$383.00
	2500	TSLUG25	21	7	3/0-800	\$418.00
	3000	TSLUG30	27	9	3/0-800	\$630.00
4000	4000	TSLUG40	27	9	3/0-800	\$1045.00

<sup>4</sup>For use with adapter kit only. See table above.



2000 Ampere Power Break® II breaker with SPLUGA20 lug adapter kit and 18 lugs (TPLUG108)



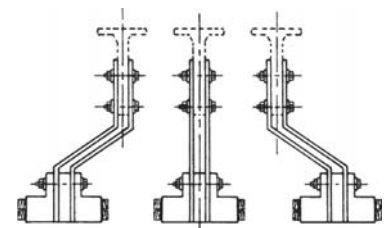
Type TPLUG206



Type TPLUG408



Type TPLUG308



Type TSLUG20



# Insulated Case Circuit Breakers Power Break® II Circuit Breaker Accessories

## Stationary Breaker Mounting Kits, Wall Mounted Enclosures, Floor Mounted Enclosures

All devices UL Listed for factory or field installation except where noted.

### T-Studs

T-studs mount directly to the breaker, and can be rotated for either vertical or horizontal bus connection. 4000 ampere T-studs are for vertical bus bars only. Product number includes one stud. Both copper and aluminum T-studs are tin-plated.

#### T-Studs—Front Connected Breaker

Circuit Breaker Frame Size (Amperes)	Max. Rating (Amperes)	Product Number	List Price GO-245B
800	800	SP08FCA <sup>1</sup>	\$36.00
800	800	SP08FCC <sup>2</sup>	\$36.00
2000	800-2000	SP20FCA <sup>1</sup>	\$49.00
2000	800-2000	SP20FCC <sup>2</sup>	\$49.00
2500	2000	SPS20FCA <sup>1</sup>	\$48.75
2500	2500	SPS25FCC <sup>2</sup>	\$51.50
3000	3000	SPS30FCC <sup>2</sup>	\$181.50
4000	4000	SPS40FCC <sup>2</sup>	\$240.50
4000	4000	SPS40LFCC <sup>2,3</sup>	\$395.00

#### T-Studs—Back Connected Breaker

Circuit Breaker Frame Size (Amperes)	Max. Rating (Amperes)	Product Number	List Price GO-245B
2500	2000	SPS20BCA <sup>1,4</sup>	\$48.75
2500	2500	SPS25BCC <sup>2,4</sup>	\$51.50
3000	3000	<sup>2,5</sup>	\$181.50

<sup>1</sup>Aluminum

<sup>2</sup>Copper

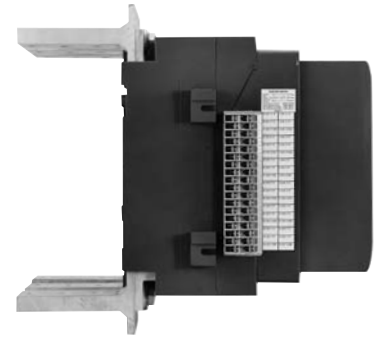
<sup>3</sup>Extra long stud. Alternate with SPS40FCC for ease of installation.

<sup>4</sup>Six T-studs at no charge when ordered with breaker

<sup>5</sup>Supplied with integral T-stud

### Trimplate

Factory Installed Product Number	Field Installable Product Number	List Price GO-245B
SPTRIMPLATE	SPTRIMPLATER	\$64.00



2000A Breaker with "T" Studs Mounted





# Insulated Case Circuit Breakers Power Break® II Circuit Breaker Accessories

## Neutral Current Sensors and POWER LEADER Accessories

### Neutral Current Sensors<sup>1</sup>

Breaker Frame (Amperes)	Circuit Breaker Sensor Rating (Amperes)	Neutral Sensor Rating or Tap Settings (Amperes)	Product Number	List Price GO-245B
800	200	200	TSVG302	\$266.00
	400	400/200	TSVG304A	\$266.00
	400	600/300 <sup>2</sup>	TSVG306A	\$266.00
800-1600	800	800/400	TSVG308A	\$266.00
	1000	800/400 <sup>2</sup>	TSVG808A	\$266.00
	1000	1000/500	TSVG810A	\$266.00
1600	1600	1200/600 <sup>2</sup>	TSVG812A	\$266.00
	1600	1600/1000	TSVG816A	\$266.00
	2000	2000/1000	TSVG820A	\$266.00
2000	1000	800/400 <sup>2</sup>	TSVG808A	\$266.00
	1000	1000/500	TSVG810A	\$266.00
	1000	1200/600 <sup>2</sup>	TSVG812A	\$266.00
	1000	1600/1000 <sup>2</sup>	TSVG816A	\$266.00
	2000	2000/1200	TSVG820A	\$266.00
	2500	2500/1800	TSVG825A	\$266.00
3000	3000	3000/2400	TSVG830A	\$266.00
	4000	4000/3000	TSVG940A	\$266.00

<sup>1</sup>Match neutral current sensor rating (or tap setting) to circuit breaker sensor rating.

<sup>2</sup>For use with multiple source ground fault protection schemes. Rating does not match MicroVersaTrip® Plus or PM frame sensor.



Neutral Current Sensor

### MicroVersaTrip® Portable Test Kit

The test kit product number TVRMS2 is a portable, battery-powered, test kit which provides for trip unit health checks and functional trip and no-trip tests. It also provides defeat of the ground-fault function and can be used in conjunction with high-current test equipment. The test kit can be used to provide +24V power to the trip unit for cold set-up and viewing of trip targets. This test kit is for use with RMS-9, Epic, MicroVersaTrip® Plus and MicroVersaTrip® PM trip units. The kit uses six rechargeable ni-cad or standard alkaline "D" cells supplied by the customer. Kit can also be powered by 120 Vac source.

Description	Product Number	List Price GO-245B
Portable Test Kit	TVRMS2	\$3000.00

### MicroVersaTrip® Portable Power Pack

The handheld MicroVersaTrip® portable battery pack provides an independent power source for Enhanced MicroVersaTrip® Plus and MicroVersaTrip® PM trip units as an alternative to the TVRMS2 test set. The power pack is used to power up the trip unit to set or adjust trip set points when the breaker is on the bench or otherwise not powered up. It connects to the trip unit through the rating plug test jack. It requires three (3) standard 9 Vdc alkaline batteries (not included).

Description	Product Number	List Price GO-245B
MicroVersaTrip® Plus and PM Portable Power Pack	TVPBP	\$75.00

### POWER LEADER® Power Supplies

Power supply for furnishing 24Vdc control power for MicroVersaTrip® Plus and PM trip units.

Description	System Requirements (price separately)	Product Number	List Price GO-104A
1.5 ampere power supply Price one PLPS4G01 for each line-up. 45 trip units and 100 ft. maximum.	Input power, 100VA (85-265Vac or 100-370Vdc)	PLPS4G01	\$1250.00

### Reference

Instructions	GEH-6492
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### POWER LEADER® Voltage Conditioner

Conditions and scales 120Vac to 1.76 Vac for use by the trip unit for voltage sensing. Provides transient protection. Voltage conditioners require isolation PTs.

Description	System Requirements (price separately)	Product Number	List Price GO-104A
Supplies isolated bus voltage signal to MicroVersaTrip® PM trip units.	One set of 3 voltage conditioners required for each voltage sensing location. PTs also required.	PLVC1G01	\$200.00 per set

### Reference

Instructions	GEH-5946
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### Rating Plug Removal Tool

Product Number	List Price GO-135S
TRTOOL	\$12.00



# Insulated Case Circuit Breakers Power Break® II Circuit Breaker Accessories

## Draw-out Breaker Accessories

### Features

- Draw-outs through 4000 amperes are UL Listed, 100% rated
- Modular design for simplified installation—6 basic sizes—800, 1600, 2000, 2500, 3000, 4000—5 inch pole centers
- Screw racking mechanism provides positive racking motion
- Self aligning primary and secondary disconnects
- Four position draw-out—engaged, test, disengaged, fully withdrawn—simplifies system testing and inspection
- Breaker position indicator clearly shows breaker position
- Provisions for padlocking breaker in test or disengaged position
- Mechanical interlock logic prevents movement of a closed breaker
- Suitable for reverse feeding

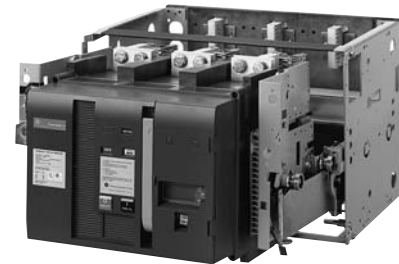
### Description

The draw-out assembly consists of a substructure housing unit designed as a compact self-supporting unit and a draw-out breaker which must be ordered separately. The substructure contains mounting holes, self-supporting male plugs and extendable rails, and can be ordered separately for installation in your switchboard or enclosure.

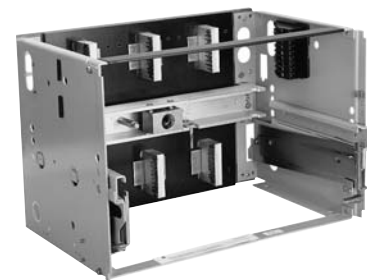
The Power Break® II draw-out breaker is a self-contained, heavy-duty assembly designed to offer simplified breaker inspection without de-energizing the main bus structure.

The draw-out breaker comes complete with racking mechanism drive, wheels, primary and secondary disconnects and cooperating interlock systems.

Accessories such as dead-front shutters, by-pass switches (position switches), and padlock devices are available and field installable.



Draw-out Breaker in Substructure



1600-ampere substructure for standard break breaker

### OEM Substructures

Substructures are available for both standard and Hi-Break Power Break® II breakers. Holes are provided for bolting on a shelf or supports. Holes are also provided in the primary stabs for bolting to busbars or terminal lugs. Substructure secondary disconnects are ordered and priced separately. Order Hi-Break substructures for use with Power Break® II switches.

Frame Rating (Amperes)	Standard Break Product Number	List Price GO-245B	Hi-Break Product Number	List Price GO-245B
800	SPSDOS08	\$671.00	SPHDOS08	\$724.00
1600	SPSDOS16	\$1300.00	SPHDOS16	\$1403.00
2000	SPSDOS20	\$1892.00	SPHDOS20	\$2040.00
2500	SPSDOS25	\$2048.00	SPHDOS25	\$2207.00
3000	SPSDOS30	\$2739.00	SPHDOS30	\$2951.00
4000	SPSDOS40	\$6916.00	SPHDOS40	\$7455.00

### Secondary Disconnect for Draw-out Breakers

Control wiring is connected through draw-out secondary disconnects in the "TEST" and "CONNECTED" positions only. Up to 72 control circuits are possible through 36 position plug-style secondary disconnect blocks factory mounted to each side of draw-out breakers. One substructure disconnect (SPDOSD36S) must be ordered for each breaker when accessories or communications are used. When auxiliary switches are used along with any other electrical accessory or communications, two disconnects must be ordered.

Location	Product Number	List Price GO-245B
Substructure	SPDOSD36S	\$283.00
Breaker <sup>1</sup>	SPDOSD36B	\$283.00

<sup>1</sup>Order for replacement only. Included and factory wired with draw-out breaker.



# Insulated Case Circuit Breakers Power Break® II Circuit Breaker Accessories

## Draw-out Breakers and Accessories

All devices UL Listed for factory or field installation except where noted.

### Shutter Kit

This field installable kit provides shutters used to prevent unintentional contact with potentially live primary disconnect stabs when a breaker is racked out of an energized switchboard compartment.

Frame Rating	Product Number	List Price GO-245B
800-2000A	SPDSS20	\$501.00
3000A	SPDSS30	\$501.00
4000A	SPDSS40	\$501.00

### By-Pass Switch

Provides positive indication that the draw-out breaker or switch primary contact fingers are fully connected to the main bus in the substructure. Switch contacts change states only after the primary fingers are fully connected when the breaker is being moved from the DISCONNECTED position through the TEST position and into the CONNECTED position.

May be used to provide control circuit continuity or downstream signaling that the draw-out breaker is connected in addition to the visual position indicator on the draw-out substructure. The By-pass switch accessory does not indicate either the TEST or DISCONNECTED position. The switch assembly mounts on the stationary frame and the actuator mounts to the carriage. Switch contacts are rated at 10A at 600 Vac, 0.75A at 125 Vdc, and 0.25A at 250 Vdc.

Number of Switch Elements	Product Number	List Price GO-245B
2 NO/2 NC	TDOB2L	\$177.00
4 NO/4 NC	TDOB4L	\$256.00
6 NO/6 NC	TDOB6L	\$336.00

### Racking Padlock Provision

The racking padlock provides a means for the user to prevent racking tool engagement, thereby preventing movement of the breaker between the DISCONNECTED, TEST and CONNECTED positions.

Frame Rating	Product Number	List Price GO-245B
All	TDOPC	\$46.00

### Lifting Bar

The lifting bar provides a means of safely lifting a draw-out circuit breaker. A chain hook can be attached to the central hole in the lifting bar or a 1" diameter black iron pipe can be put through the two holes above the hooks, allowing two people to carry the breaker below waist level from either side of the breaker.

**One lifting bar is supplied with every five draw-out breakers at no charge.**

Frame Rating	Product Number	List Price GO-245B
All	TDOLB	\$104.00

### Racking Tool

The racking tool is a drive wrench with a square 1/2" socket that engages the racking mechanism of the draw-out breaker. One racking tool is supplied with every five draw-out breakers at no charge.

Frame Rating	Product Number	List Price GO-245B
All	TDORT	\$70.00

### Mechanical Interlocks

Mechanical interlocks provide the same function as the walking beam accessory for stationary breakers, except they are used with two draw-out breakers: mounted on common compartment centerline, in either the same vertical section or adjacent vertical sections.

Envelope Size	Product Number	List Price GO-245B
800-2000	SPDOWB20	\$1310.00
2500-4000	SPDOWB40	\$1310.00

### Rail Kit

This field installable rail kit may be used to shorten the two standard OEM substructure rails by 3-1/2 inches.

Product Number	List Price GO-245B
SPRAILS	\$310.00

### Position Switch

Provides positive indication when the draw-out breaker or switch primary contact fingers have been fully withdrawn from the main bus connections. Switch contacts change state only after the primary fingers are fully disconnected when the breaker is being moved from the CONNECTED position through the TEST position and into the DISCONNECTED position.

May be used as part of a safety interlocking system in addition to the visual indicator on the draw-out substructure. The Position Switch accessory does not indicate either the TEST or CONNECTED position. The switch assembly mounts on the stationary frame and the actuator mounts to the carriage. Switch contacts are rated at 10A at 600 Vac, 0.75A at 125 Vdc, and 0.25A at 250 Vdc.

Number of Switch Elements	Product Number	List Price GO-245B
2 NO/2 NC	SDOPS2L	\$177.00
4 NO/4 NC	SDOPS4L	\$256.00
6 NO/6 NC	SDOPS6L	\$336.00



# Disconnect Switches and Operating Mechanisms

## High-Pressure Contact Switch

With Integral Ground Fault Devices, 800-4000 Amperes, 600 Vac Max., UL File. No. E-51827

### Neutral Current (800: 1 ratio) Sensors

Inside Dimensions	Core Construction	Thermal Rating (Amperes)	Weight (Lbs.)	Product Number	List Price GO-142
2.5" Dia.	Solid	1600	3	TGS0002	<b>\$460.00</b>
5" Dia.	Solid	2500	4	TGS0005	<b>\$731.00</b>
8" Dia.	Solid	3000	7	TGS0008	<b>\$856.00</b>
4" x 8"	Split	4000	15	TGS0408	<b>\$1439.00</b>
8" x 8"	Split	4000	25	TGS0808	<b>\$1482.00</b>



Neutral Current Sensor - Solid



Neutral Current Sensor - Split



# Disconnect Switches and Operating Mechanisms High-Pressure Contact Switch

Accessories, UL Listed

## Field Installed Lugs Kits 800-1600 Ampere Switches-Direct Mounting

Field installed only. Kits consist of lugs and hardware for direct mounting to switch terminal straps (multiple-hole tang lugs) or lugs for mounting to 800 ampere terminal adapter kit. Order three kits for three-pole line or load end. For 1600-ampere, copper conductors must be used.

Ampere Rating	Accessory Type	Wire Range Cu/Al	Product Number	List Price GO-145A
800A	Lug Kit Line & Lug Kit Load	(3) 300-750	THPCLUG308	<b>\$63.50</b>
1200A, 1600A	Lug Kit Line	(4) 500-800 kcmil	TPLUG408	<b>\$39.00<sup>1</sup></b>
1200A, 1600A	Lug Kit Load	(4) 500-800 kcmil	THPCLUG408	<b>\$77.50</b>

<sup>1</sup>GO-245B

## Field Installed Lugs Kits 2000-4000 Ampere Switches-Direct Mounting

Field installed only. To terminate line and load cables, must be used in conjunction with bus-connection adapter on page 7-20 (T Studs). Each lug kit includes lugs, straps and hardware for three-phase line or load connections. Each cable lug accommodates 1-3/0 Cu or 250 kcmil Al to 800 kcmil Cu-Al. Accepts Anderson VersaCrimp when lugs are removed from straps.

Ampere Rating	No. of Lugs per Pole Line or Load End	Product Number	List Price GO-245B
2000A	6	TSLUG20	<b>\$383.00</b>
2500A	7	TSLUG25	<b>\$418.00</b>
3000A	9	TSLUG30	<b>\$630.00</b>
4000A	11	TSLUG40	<b>\$1045.00</b>

## Field Installed T Studs

Field installed only. May be used to adapt line and load terminals of switch to vertical or horizontal bus arrangements. Three required for line or load connections on three-phase bus. Accepts either lugs, bolts, or Anderson VCEL VersaCrimp.

Basic Switch Rating (Amperes)	Product Number	List Price GO-145A
800	THPC08FCA <sup>2</sup>	<b>\$71.00</b>
1200-1600	TP16FCA	<b>\$113.00</b>
2000	TS20FCA	<b>\$113.00</b>
2500	TS25FCA	<b>\$119.00</b>
3000	TS30FCA	<b>\$418.00</b>
4000	(5)TS40FCA	<b>\$562.00</b>
4000	(1)TS40LFCA <sup>3</sup>	<b>\$789.00</b>

<sup>2</sup>For vertical bussing only.

<sup>3</sup>For center pole, line terminal.



# Section 2: Switchgear

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This catalog contains replacement parts, retrofits, accessories, and older generation products. For current generation products, please see the GE BuyLog® or Control Catalog.



# Low Voltage Power and DC Circuit Breakers

## Low Voltage Switchgear History/Timeline

### GE Low Voltage Switchgear History/Timeline

1930's-50	<b>AE/AL</b> Manufactured from 1930's(?) to the early 1950's
1951-75	<p><b>AKD</b>  <b>AK = Power Circuit Breaker Equipment</b>  <b>D = Drawout circuit breaker construction</b></p> <p>Manufactured 1951 - 1975, all bolted copper bus design, all breakers drawout, AK-1, 2, 3 - 15 / 25 / 50 / 75 / 100. 4000A max bus rating, 4 levels of bus, ring bus used in all feeder sections, main bus has provisions for future extension, sections in outdoor construction did not line up in the front, indoor construction has extended frames to allow the fronts of the sections to align. Indoor depths 49" (225 / 600A breakers), 59" (1600A breakers), 63" (3200 / 4000A breakers). Breakers had ratcheting drawout mechanism - open door drawout. Painted ANSI 61 light gray, manufactured in Philadelphia 1951 - mid-60's, Burlington mid-60's - 1975. Breaker compartment was a welded assembly, equipment frame was bolted. Breaker boxes were stacked to make a vertical section with equipment frame around the breaker boxes. No bus compartment barriers, open bus design. Ring silver plating on bolted connections.</p>
1951-60's	<b>AKS</b> Stationary version of AKD, manufactured 1951 - 60's
1960-77	<b>AKD-5</b> Manufactured 1960 - 1977, aluminum bus with "flash-butt welded" copper to aluminum at bolted connections. AK-2A, 3A -25 / 50 / T50 / 75 / 100 ("A" signifies AKD-5 drawout). Pull-lanyard drawout mechanism on early design, replaced by single jackscrew mechanism and then replaced by double jack-screw mechanism. Closed-door drawout with inner house breaker compartment. 60" deep frame with 18" extension option. Outdoor protected aisle uses 60" deep indoor frame. Two bus levels available, ring bus used at 4000A. Welded / riveted frame, bus compartment barriers, line/load separation barriers on mains and ties, isolation barriers on transformer transitions, copper runbacks on feeder breakers, ring silver plating on copper, aluminum bus unplated (welded connections). Painted sand gray (beige), some instrument doors painted blue. AKR-30/50 in 22" wide sections introduced in AKD-5 construction in early -70's.
1977-81	<b>AKD-6</b> Manufactured in Salisbury, NC 1977 - 1981. Some AKD-5 construction built in Salisbury '75 - '77 and nameplated as AKD-6. No flash-butt welded aluminum to copper. Aluminum bus is tin plated and bolted at shipping splits (welded everywhere else). Copper bus design has ring silver plating at bolted joints. Introduced AKR-75 / 100. Stab-and-finger connections on 3200 and 4000A breakers versus round primary disconnect on AKD-5. Uses inner-house drawout breaker compartment. Tuning fork primary disconnect (extrusion) on 800 - 2000A breaker compartments. Copper feeder breaker runbacks. 60" deep frames with 18" optional rear extension. Painted ANSI 61 light gray. Breakers have ECS or SST trip units.
1981-present	<b>AKD-8</b> Manufactured 1981 to present. Model 1 & 2 has extruded vertical bus. Model 2 introduced in 1983 to accommodate automated wiring programs and harness routing. Model 3 introduced in 1991 using flat bar vertical bus. Breakers use MicroVersa Trip 9, RMS9, EPIC, MVT Plus, MVT PM trip units. Aluminum bus removed from design in 1996 in favor of standard tin-plated copper bus (silver plating optional). Field convertible space compartment design added to allow empty compartments to be modified to functioning breaker compartment without modifications to vertical bus.
1998-present	<b>AKD-10</b> Introduced March 1998 as the successor to AKD-8. Manufactured along with AKD-8 for 1998 and 1999. Uses only WavePro low voltage power circuit breakers. Same dimensions as AKD-8. Only changes from AKD-8 are in the front breaker compartment - new drawout rails, breaker door, secondary disconnects instrument panel. No need for Remote Display for trip unit since WavePro breaker has trip unit in the escutcheon. AKD-10 can match & line-up with AKD-8 without a transition (for indoor and outdoor construction). Same bus structure, frame, options, layouts and breaker stacking as AKD-8.
2005-present	<p><b>Entellisys</b> Introduced October 2005 as a new platform for low voltage switchgear. Uses non-automatic EntelliGuard breakers (similar to WavePro except no current sensors, no trip unit, and limited accessories). Entellisys uses redundant components for highest reliability and maximum up-time. Redundant CPU's perform all protection, metering, control, and monitoring functions. Other redundant components of the system include 2 UPS's, 2 network communication switches for internal communication, 2 control power throwover relays, 2 control power sources (120vAC). Each breaker cubicle is provided with an EntelliGuard Messenger, which is the interface between the CPU's and the circuit breaker operating mechanisms. The Messenger performs A/D and D/A conversions plus provides back-up overcurrent protection for the breaker if all control power and communications are lost.</p> <p>Equipment construction is the same as AKD-10 switchgear (frame, bussing, drawout cubicles, etc). Entellisys does not replace AKD-10. Both product lines are currently being produced.</p>







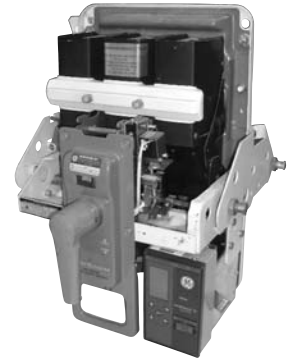
# Low Voltage Power and DC Circuit Breakers

## AK and AKR Low Voltage Power Circuit Breakers

New AK and AKR low voltage power circuit breakers are available for replacement and retrofill needs. The following circuit breakers are available:

### AK Circuit Breaker

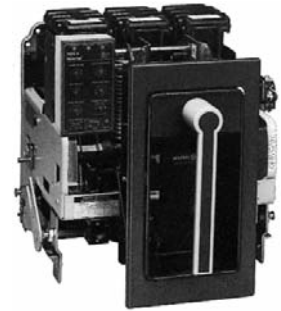
AC Voltage Rating 60 Hertz	Breaker Type	Frame Size (Amps)	Short-circuit Ratings — RMS Symmetrical KA	
			With Instantaneous Trip	Without Instantaneous Trip
600	AK-25	600	22	22
	AK-50	1600	42	42
	AK-50H	1600	65	65
480	AK-25	600	30	22
	AK-50	1600	50	50
	AK-50H	1600	65	65
240	AK-25	600	42	22
	AK-50	1600	65	50
	AK-50H	1600	85	65



AK-25 Breaker

### AKR Circuit Breaker

AC Voltage Rating 50/60 Hertz	Breaker Type	Frame Size (Amps)	Short-circuit Ratings — RMS Symmetrical KA	
			With Instantaneous Trip	Without Instantaneous Trip
600	AKR-30	800	30	30
	AKR-30H	800	42	42
	AKR-50	1600	42	42
	AKR-50H	1600	65	65
	AKRT-50H	2000	65	65
	AKR-75	3200	65	65
	AKR-100	4000	85	85
480	AKR-30	800	30	30
	AKR-30H	800	42	42
	AKR-50	1600	50	50
	AKR-50H	1600	65	65
	AKRT-50H	2000	65	65
	AKR-75	3200	65	65
	AKR-100	4000	85	85
240	AKR-30	800	42	30
	AKR-30H	800	50	42
	AKR-50	1600	65	50
	AKR-50H	1600	65	65
	AKRT-50H	2000	65	65
	AKR-75	3200	85	65
	AKR-100	4000	130	85



AKR-30H Breaker

Contact your local GE sales representative for price and delivery. Be prepared to provide full nameplate data from your existing low voltage switchgear lineup.



# Low Voltage Power and DC Circuit Breakers Trip Unit Conversion Kits

GE offers a complete line of trip unit upgrade kits for low voltage power circuit breakers manufactured by GE, as well as by Westinghouse, I-T-E, and Allis-Chalmers. These conversion kits contain everything necessary to convert an old-style electro-mechanical or solid-state trip unit to today's latest electronic, digital technology—including the addition of metering, protective relay, waveform capture, RELT, and communication functions. All conversion kits designed by GE are tested to ANSI C37.59 standards for each breaker type so customers have the assurance of safe, reliable operation.

## Features and Benefits—All Kits

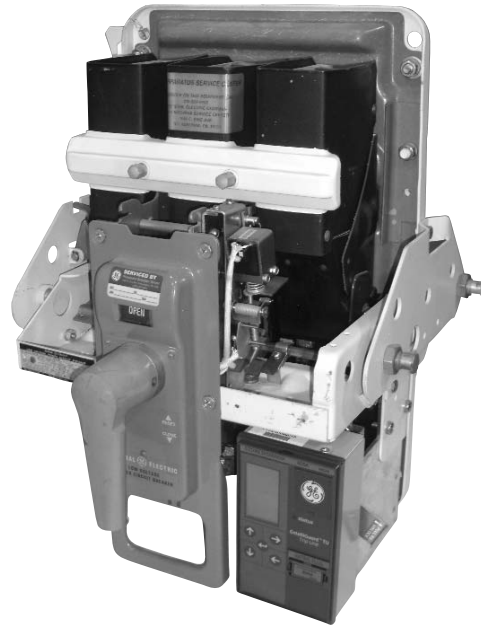
- Kit includes everything needed in one compact package
- Full-range of interchangeable rating plugs
- Trip targets for quick identification of overload, short circuit, and ground fault trips
- Sealable, see-through cover to prevent unauthorized access to trip unit settings
- Portable Trip Unit Test Kits; GTUTK20 and TVRMS2
- Eliminate costly downtime due to nuisance tripping
- Improved power system coordination and protection
- Extend life and function of existing breakers and low voltage equipment

## EntelliGuard® TU Conversion Kits

- True RMS sensing with a sampling rate of 48 samples per cycle with the ability to Waveform capture 4 cycles prior and 4 cycles after an event
- Long Time, Short Time, and Instantaneous Standard on all trip units. S and I switchable on ANSI breakers
- Large backlit LCD screen, view all currents on one screen
- Trip settings and trip target information stored in non-volatile memory
- On-board lithium battery (field replaceable) for cold set-up and reading trip targets
- Status and Event Log, view the last 10 events
- Health Status LED and Thermal Memory
- Comm port for interface with set-up software and to download Waveform
- Optional metering, relaying, communications, ZSI - I, ground fault (trip & alarm), and fused shaped curves
- Plug and Play with previous generation of RMS9, EPIC, MVT and Enhanced MVT Trip Units

## ProTrip™ Conversion Kits

- Cost-effective upgrade with standard adjustable long time, short time, instantaneous, and defeatable ground fault functions
- Simple-to-use rotary switches for selecting the trip unit pickup and delay settings
- True RMS sensing with sampling rate of 48 times per cycle per phase - accurate waveform measurements through the 11th harmonic
- Standard target module with individual LEDs for overload pickup, overload trip, short circuit trip, ground fault trip, and target module battery monitor



AK-25 Breaker with EntelliGuard® TU Trip Unit



EntelliGuard® TU Conversion Kits

## Everything You Need in One Package

ProTrip™ and EntelliGuard® TU conversion kits for the breakers listed in the following pages are shipped complete with detailed installation instructions and everything needed for fast and easy trip unit conversions.

- Digital solid-state trip with quick disconnect
- Direct-acting flux shift trip actuator with automatic reset
- Epoxy encapsulated high-accuracy current sensors
- Interchangeable rating plug (order separately)
- Specially designed mounting hardware and wire harnesses for each breaker frame



# Low Voltage Power and DC Circuit Breakers Trip Unit Conversion Kits

## EntelliGuard® TU Conversion Kits— Upgrade your low-voltage equipment with electronic trip unit technology.

Normal wear and tear of aging electro-mechanical trip devices on low-voltage circuit breakers increases susceptibility to loss of calibration that can subsequently jeopardize electrical power system coordination, protection and reliability.

GE has channeled its decades of circuit breaker trip system experience into the development of the EntelliGuard® TU Trip Unit. The EntelliGuard® TU builds on the past trip units by incorporating advance algorithms that enable Arc Flash protection and Selectivity at the same time.

ANSI C37.59 design verification tested to ensure safe, reliable operation, these kits are designed to extend the life of your mechanically sound breaker and...

- Eliminate costly downtime due to nuisance tripping. Improves on past trip units with a Waveform Recognition Instantaneous Algorithm
- Improve electrical power system coordination and protection
- Permit easy upgrades to communicating Power Management Control Systems (PMCS), open Modbus RTU protocol
- Enable the implementation of RELT and Zone Selective Interlock Instantaneous to reduce Arc Flash Energy Levels.

### Standard Features

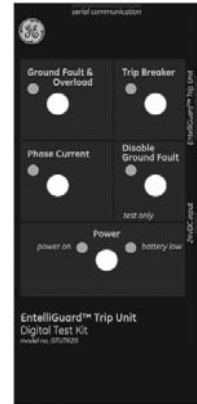
- Flexible Time Current Settings
- I<sup>2</sup>T Long Time, Long Time Delay
- Short Time, Short Time Delay, 3 Short Time I<sup>2</sup>T Slopes
- Waveform Recognition Instantaneous
- Ammeter
- Large Backlit LCD Screen<sup>1</sup>
- Date and Time<sup>1</sup>
- Breaker Status Indication
- Universal Rating Plugs
- Status and Event Log (10 Events)
- LED Health Status Indicator<sup>1</sup>
- Set-up Software
- I/O - 1 Input and 1 Output<sup>1</sup>
- Thermal Memory, Battery Back-up
- Common Interface across all versions

### Optional

- Internal/External Ground Fault Trip or Alarm with 4 curves to select from (I<sup>2</sup>T, I<sup>4</sup>T, SGF, Definite Time Slope)<sup>1</sup>
- Switchable Ground Fault Trip / Alarm (not UL Listed)
- Fused Long Time Curves (I<sup>4</sup>T)
- Modbus Open RTU Communications<sup>1</sup>
- Waveform Capture - Enables Harmonic analysis
- Full-function Metering<sup>1</sup>
- Protective Relaying<sup>1</sup>
- Zone Selective Interlock - GF, S, I<sup>1</sup>
- RELT - Reduce Energy Let Through<sup>1</sup>
- RELT and Ground Fault Alarm Harness Kits
- Test Set GTUTK20



EntelliGuard® TU Trip Unit



Test Kit - GTUTK20

### Arc Flash and Selectivity at the same time

The EntelliGuard® TU Trip Unit offers optimum circuit protection and optimum system reliability simultaneously with little or no compromise to either of these critical functions. Reliability and arc flash protection, in one package, at the same time, all the time.

### Algorithms enabling arc flash protection and selectivity

- RELT - Reduced Energy Let Through
- Zone Selective Interlocking - Instantaneous (ZSI-I)
- Waveform Recognition Instantaneous - Coordinate with Current Limiting Devices and reduces Nuisance Trips
- Flexible Time Current Curves - Create the shape you need

### Reliability - Health Status

- Non-volatile memory with continuous self-testing microprocessor
- Health Status LED indicates Normal Operation, Errors, Pick-up, Trip
- External Power Not Required with Long Life Lithium Battery
- Positive setpoint recognition, values flash until saved

### Plug and Play

- Same Form, Fit, Function as the popular MicroVersaTrip® Trip Unit. Easily upgrade an existing converted breaker<sup>1</sup>

### Optional Full-function metering including

- current (Amps, kAmps)
- voltage (Ph-Ph, Ph-N)
- energy (kWh, MWh, GWh)
- real power (kW, MW)
- total power (kVA, MVA)
- frequency (Hz)
- demand (avg. kW, MW) and peak demand

### Optional protective relaying functions include

- undervoltage
- overvoltage
- voltage unbalance
- current unbalance
- power reversal
- power direction setup

<sup>1</sup>Note: Some options require 24VDC, additional hardware to enable Metering, Relaying, RELT, ZSI, Modbus to be added to the Breaker, Equipment Cubicle, and Equipment Sections.



# Low Voltage Power and DC Circuit Breakers ProTrip™ Trip Unit Conversion Kit Selection Guide

For GE Circuit Breakers

## Product Number Structure

		<b>PK115</b>	<b>D</b>	<b>3</b>	<b>F</b>	<b>01</b>	<b>08</b>		
<b>Breaker</b>								<b>Trip Functions</b>	
AK-1-15	<b>PK115</b>							LSIGX- 08	
AK-15	<b>PKO15<sup>1</sup></b>								
AK-1-25	<b>PK125</b>								
AK-25	<b>PKO25<sup>1</sup></b>								
AKU-25									
AK-1-50	<b>PK150</b>								
AK-50									
AKU-50 <sup>2</sup>									
AKT-50	<b>PKO50<sup>1</sup></b>								
AKS-50									
AKSU-50 <sup>2</sup>									
AKST-50									
AK-75 <sup>3</sup>	<b>PKO75<sup>3</sup></b>								
AK-100 <sup>3</sup>	<b>PKO10<sup>3</sup></b>								
<b>Model</b>									
Generation-D									
<b>Wiring</b>									
3 Wire-3									
4 Wire-4									
<b>Sensor Type</b>									
Fixed CTs-F									

<b>Sensor Rating</b>	
150A- 01	
225A- 02	
600A- 06	
800A- 08	
1600A- 16	
2000A- 20	
3000A- 30	
4000A- 40	

<b>Trip Unit Functions</b>	
LSIGX- 08	
<b>Trip Unit Functions</b>	
LSIGX- Long Time, Short Time/INST.	
and Switchable Ground Fault (off)	
<b>Not Approved for a UL Listed Breaker</b>	

<b>Sensor Rating Selection</b>	
<b>Frame Breaker Product Numbers Sensors</b>	
225 AK-1-15, AK-15 150A, 225A	
600 AK-1-25, AK-25, AKU-25 150A, 225A, 600A	
1600 AK-1-50, AK-50, AKU-50, AKS-50, AKSU-50 800A, 1600A	
2000 AKT-50, AKST-50 2000A	
3000 AK-75 3000A	
4000 AK-100 4000A	

<sup>1</sup>For converting AK-2 version breakers and newer, not applicable for AK-1 or AKR

<sup>2</sup>Breakers equipped with older style open fuse lockout devices (OFLO), must be retrofitted with newer style OFLO device prior to conversion process.  
Order replacement OFLO kits as follows: AKU-50 - order OFLO kit #121C287OG2, AK-75 - order OFLO kit #121C287OG3, AK-100 - order OFLO kit #121C287OG4

<sup>3</sup>Contact the factory for stationary breaker applications

## ProTrip™ Conversion Kits

Frame Size (Amps)	Breaker Model	Wiring	Sensor Rating	Product Number	List Price GO-104P
225	AK-1-15	3 Wire	150A	PK115D3F0108	\$2550.00
225	AK-1-15	3 Wire	225A	PK115D3F0208	\$2550.00
225	AK-1-15	4 Wire	150A	PK115D4F0108	\$2775.00
225	AK-1-15	4 Wire	225A	PK115D4F0208	\$2775.00
225	AK-15	3 Wire	150A	PKO15D3F0108	\$2550.00
225	AK-15	3 Wire	225A	PKO15D3F0208	\$2550.00
225	AK-15	4 Wire	150A	PKO15D4F0108	\$2775.00
225	AK-15	4 Wire	225A	PKO15D4F0208	\$2775.00
600	AK-1-25	3 Wire	150A	PK125D3F0108	\$2550.00
600	AK-1-25	3 Wire	225A	PK125D3F0208	\$2550.00
600	AK-1-25	3 Wire	600A	PK125D3F0608	\$2550.00
600	AK-1-25	4 Wire	150A	PK125D4F0108	\$2775.00
600	AK-1-25	4 Wire	225A	PK125D4F0208	\$2775.00
600	AK-1-25	4 Wire	600A	PK125D4F0608	\$2775.00
600	AK-25, AKU-25	3 Wire	150A	PKO25D3F0108	\$2550.00
600	AK-25, AKU-25	3 Wire	225A	PKO25D3F0208	\$2550.00
600	AK-25, AKU-25	3 Wire	600A	PKO25D3F0608	\$2550.00
600	AK-25, AKU-25	4 Wire	150A	PKO25D4F0108	\$2775.00
600	AK-25, AKU-25	4 Wire	225A	PKO25D4F0208	\$2775.00
600	AK-25, AKU-25	4 Wire	600A	PKO25D4F0608	\$2775.00
1600	AK-1-50	3 Wire	800A	PK150D3F0808	\$2800.00
1600	AK-1-50	3 Wire	1600A	PK150D3F1608	\$2800.00
1600	AK-1-50	4 Wire	800A	PK150D4F0808	\$3025.00
1600	AK-1-50	4 Wire	1600A	PK150D4F1608	\$3025.00
1600	AK-50, AKU-50, AKT-50, AKS-50, AKSU-50, AKST-50	3 Wire	800A	PKO50D3F0808	\$2800.00
1600	AK-50, AKU-50, AKT-50, AKS-50, AKSU-50, AKST-50	3 Wire	1600A	PKO50D3F1608	\$2800.00
1600	AK-50, AKU-50, AKT-50, AKS-50, AKSU-50, AKST-50	3 Wire	2000A	PKO50D3F2008	\$2800.00
1600	AK-50, AKU-50, AKT-50, AKS-50, AKSU-50, AKST-50	4 Wire	800A	PKO50D4F0808	\$3025.00
1600	AK-50, AKU-50, AKT-50, AKS-50, AKSU-50, AKST-50	4 Wire	1600A	PKO50D4F1608	\$3025.00
1600	AK-50, AKU-50, AKT-50, AKS-50, AKSU-50, AKST-50	4 Wire	2000A	PKO50D4F2008	\$3025.00
3000	AK-75	3 Wire	3000A	PKO75D3F3008	\$2800.00
3000	AK-75	4 Wire	3000A	PKO75D4F3008	\$3025.00
4000	AK-100	3 Wire	4000A	PKO100D3F4008	\$3050.00
4000	AK-100	4 Wire	4000A	PKO100D4F4008	\$3275.00

Conversion kits come standard with a rating plug that matches the current sensor. For rating plugs with different values, price and order separately. See page 2-11.



# Low Voltage Power and DC Circuit Breakers ProTrip™ Trip Unit Conversion Kit Selection Guide

For \*I-T-E Circuit Breakers

## Product Number Structure

<b>PIK22</b>		<b>D</b>	<b>3</b>	<b>F</b>	<b>02</b>	<b>08</b>	<b>Trip Functions</b> LSIGX- 08
<b>Breaker</b>					<b>Sensor Rating</b>		<b>Trip Unit Functions</b>
K225	PIK22 <sup>1</sup>				150A- 01		LSIGX- Long Time, Short Time/INST. and Switchable Ground Fault (off)
K600	PIK60 <sup>1</sup>				225A- 02		<b>Not Approved for a UL Listed Breaker</b>
KDON600					400A- 04		
K800	PIK80 <sup>1</sup>				600A- 06		
KDON800					800A- 08		
K1600 (black)	PIK1B <sup>1</sup>				1600A- 16		
KDON1600 (black)							
K1600 (red)	PIK16 <sup>1,2</sup>						
KDON1600 (red)	PIKN <sup>1,3</sup>						
<b>Model</b>							
Generation-D							
<b>Wiring</b>							
3 Wire-3							
4 Wire-4							
<b>Sensor Type</b>							
Fixed CTs-F							

Sensor Rating Selection		
Frame	Breaker Product Numbers	Sensors
225	K225	150A, 225A
600	K600, KDON600	150A, 225A, 600A
800	K800, KDON800	150A, 400A, 800A
1600	K1600 (black), KDON1600 (black), K1600 (red), KDON1600 (red)	800A, 1600A

<sup>1</sup>Applicable to breakers originally equipped with either electro-mechanical trip devices or with solid state trip devices ("S" version breakers).

<sup>2</sup>Only applicable to breakers originally equipped with rectangular shaped primary disconnect assemblies.

<sup>3</sup>Only applicable to breakers originally equipped with circular shaped primary disconnect assemblies.

## ProTrip™ Conversion Kits

Frame Size (Amps)	Breaker Model	Wiring	Sensor Rating	Product Number	List Price GO-104P
225	K225	3 Wire	150A	PIK22D3F0108	\$2450.00
225	K225	3 Wire	225A	PIK22D3F0208	\$2450.00
225	K225	4 Wire	150A	PIK22D4F0108	\$2675.00
225	K225	4 Wire	225A	PIK22D4F0208	\$2675.00
600	K600, KDON600	3 Wire	150A	PIK60D3F0108	\$2350.00
600	K600, KDON600	3 Wire	225A	PIK60D3F0208	\$2350.00
600	K600, KDON600	3 Wire	600A	PIK60D3F0608	\$2350.00
600	K600, KDON600	4 Wire	150A	PIK60D4F0108	\$2575.00
600	K600, KDON600	4 Wire	225A	PIK60D4F0208	\$2575.00
600	K600, KDON600	4 Wire	600A	PIK60D4F0608	\$2575.00
800	K800, KDON800	3 Wire	150A	PIK80D3F0108	\$2350.00
800	K800, KDON800	3 Wire	400A	PIK80D3F0408	\$2350.00
800	K800, KDON800	3 Wire	800A	PIK80D3F0808	\$2350.00
800	K800, KDON800	4 Wire	150A	PIK80D4F0108	\$2575.00
800	K800, KDON800	4 Wire	400A	PIK80D4F0408	\$2575.00
800	K800, KDON800	4 Wire	800A	PIK80D4F0808	\$2575.00
1600	K1600 (black), KDON1600 (black)	3 Wire	800A	PIK16D3F0808	\$2700.00
1600	K1600 (black), KDON1600 (black)	3 Wire	1600A	PIK16D3F1608	\$2700.00
1600	K1600 (black), KDON1600 (black)	4 Wire	800A	PIK16D4F0808	\$2925.00
1600	K1600 (black), KDON1600 (black)	4 Wire	1600A	PIK16D4F1608	\$2925.00
1600	K1600 (red)	3 Wire	800A	PIK16D3F0808	\$2700.00
1600	K1600 (red)	3 Wire	1600A	PIK16D3F1608	\$2700.00
1600	K1600 (red)	4 Wire	800A	PIK16D4F0808	\$2925.00
1600	K1600 (red)	4 Wire	1600A	PIK16D4F1608	\$2925.00
1600	KDON1600 (red)	3 Wire	800A	PIKN1D3F0808	\$2700.00
1600	KDON1600 (red)	3 Wire	1600A	PIKN1D3F1608	\$2700.00
1600	KDON1600 (red)	4 Wire	800A	PIKN1D4F0808	\$2925.00
1600	KDON1600 (red)	4 Wire	1600A	PIKN1D4F1608	\$2925.00

Conversion kits come standard with a rating plug that matches the current sensor. For rating plugs with different values, price and order separately. See page 2-11.

\*I-T-E is a registered trademark of Siemens Energy and Automation, Inc.



# Low Voltage Power and DC Circuit Breakers ProTrip™ Trip Unit Conversion Kit Selection Guide

For \*Allis-Chalmers Circuit Breakers

## Product Number Structure

<b>PSL6B</b>		<b>D</b>	<b>3</b>	<b>F</b>	<b>02</b>	<b>08</b>
<b>Breaker</b>						<b>Trip Functions</b>
LA-600 (blue) LAF-600 (blue)	<b>PSL6B</b>					LSIGX- 08
LA-600 (gold) LAF-600 (gold)	<b>PSL6G</b>					<b>Trip Unit Functions</b>
LA-800 (gold) LAF-800 (gold)	<b>PSL8O</b>					LSIGX- Long Time, Short Time/INST. and Switchable Ground Fault (off)
LA-1600 (blue) LAF-1600 (blue)	<b>PSL1B</b>					<b>Not Approved for a UL Listed Breaker</b>
LA-1600 (gold) LAF-1600 (gold)	<b>PSL1G</b>					
<b>Model</b>						
Generation-D						
<b>Wiring</b>						
3 Wire-3						
4 Wire-4						
<b>Sensor Type</b>						
Fixed CTs-F						
					<b>Sensor Rating</b>	
					150A- 01	
					225A- 02	
					400A- 04	
					600A- 06	
					800A- 08	
					1600A- 16	
						<b>Sensor Rating Selection</b>
						<b>Frame Breaker Product Numbers Sensors</b>
					600	LA-600 (blue), LAF-600 (blue) LA-600 (gold), LAF-600 (gold) 150A, 225A, 600A
					800	LA-800 (gold), LAF-800 (gold) 150A, 400A, 800A
					1600	LA-1600 (blue), LAF-1600 (blue) LA-1600 (gold), LAF-1600 (gold) 800A, 1600A

## ProTrip™ Conversion Kits

Frame Size (Amps)	Breaker Model	Wiring	Sensor Rating	Product Number	List Price GO-104P
600	LA-600 (blue), LAF-600 (blue)	3 Wire	150A	PSL6BD3F0108	\$2350.00
600	LA-600 (blue), LAF-600 (blue)	3 Wire	225A	PSL6BD3F0208	\$2350.00
600	LA-600 (blue), LAF-600 (blue)	3 Wire	600A	PSL6BD3F0608	\$2350.00
600	LA-600 (blue), LAF-600 (blue)	4 Wire	150A	PSL6BD4F0108	\$2575.00
600	LA-600 (blue), LAF-600 (blue)	4 Wire	225A	PSL6BD4F0208	\$2575.00
600	LA-600 (blue), LAF-600 (blue)	4 Wire	600A	PSL6BD4F0608	\$2575.00
600	LA-600 (gold), LAF-600 (gold)	3 Wire	150A	PSL6GD3F0108	\$2350.00
600	LA-600 (gold), LAF-600 (gold)	3 Wire	225A	PSL6GD3F0208	\$2350.00
600	LA-600 (gold), LAF-600 (gold)	3 Wire	600A	PSL6GD3F0608	\$2350.00
600	LA-600 (gold), LAF-600 (gold)	4 Wire	150A	PSL6GD4F0108	\$2575.00
600	LA-600 (gold), LAF-600 (gold)	4 Wire	225A	PSL6GD4F0208	\$2575.00
600	LA-600 (gold), LAF-600 (gold)	4 Wire	600A	PSL6GD4F0608	\$2575.00
800	LA-800 (gold)	3 Wire	150A	PSL80D3F0108	\$2500.00
800	LA-800 (gold)	3 Wire	400A	PSL80D3F0408	\$2500.00
800	LA-800 (gold)	3 Wire	800A	PSL80D3F0808	\$2500.00
800	LA-800 (gold)	4 Wire	150A	PSL80D4F0108	\$2725.00
800	LA-800 (gold)	4 Wire	400A	PSL80D4F0408	\$2725.00
800	LA-800 (gold)	4 Wire	800A	PSL80D4F0808	\$2725.00
1600	LA-1600 (blue), LAF-1600 (blue)	3 Wire	800A	PSL1BD3F0808	\$2700.00
1600	LA-1600 (blue), LAF-1600 (blue)	3 Wire	1600A	PSL1BD3F1608	\$2700.00
1600	LA-1600 (blue), LAF-1600 (blue)	4 Wire	800A	PSL1BD4F0808	\$2925.00
1600	LA-1600 (blue), LAF-1600 (blue)	4 Wire	1600A	PSL1BD4F1608	\$2925.00
1600	LA-1600 (gold), LAF-1600 (gold)	3 Wire	800A	PSL1GD3F0808	\$2700.00
1600	LA-1600 (gold), LAF-1600 (gold)	3 Wire	1600A	PSL1GD3F1608	\$2700.00
1600	LA-1600 (gold), LAF-1600 (gold)	4 Wire	800A	PSL1GD4F0808	\$2925.00
1600	LA-1600 (gold), LAF-1600 (gold)	4 Wire	1600A	PSL1GD4F1608	\$2925.00

Conversion kits come standard with a rating plug that matches the current sensor. For rating plugs with different values, price and order separately. See page 2-11.

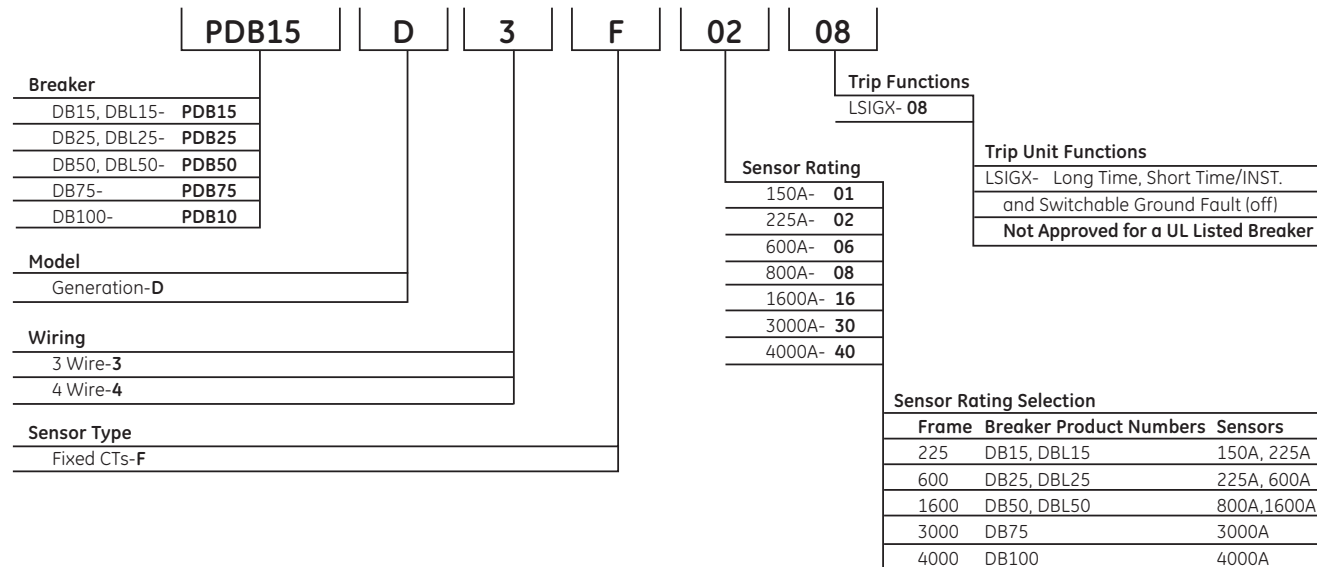
\*Allis-Chalmers is a trademark of Allis-Chalmers Manufacturing Company Corporation.



# Low Voltage Power and DC Circuit Breakers ProTrip™ Trip Unit Conversion Kit Selection Guide

For \*Westinghouse Circuit Breakers

## Product Number Structure



Switchgear 2

## ProTrip™ Conversion Kits

Frame Size (Amps)	Breaker Model	Wiring	Sensor Rating	Product Number	List Price GO-104P
225	DB15, DBL15	3 Wire	150A	PDB15D3F0108	\$2250.00
225	DB15, DBL15	3 Wire	225A	PDB15D3F0208	\$2250.00
225	DB15, DBL15	4 Wire	150A	PDB15D4F0108	\$2475.00
225	DB15, DBL15	4 Wire	225A	PDB15D4F0208	\$2475.00
600	DB25, DBL25	3 Wire	150A	PDB25D3F0108	\$2350.00
600	DB25, DBL25	3 Wire	225A	PDB25D3F0208	\$2350.00
600	DB25, DBL25	3 Wire	600A	PDB25D3F0608	\$2350.00
600	DB25, DBL25	4 Wire	150A	PDB25D4F0108	\$2575.00
600	DB25, DBL25	4 Wire	225A	PDB25D4F0208	\$2575.00
600	DB25, DBL25	4 Wire	600A	PDB25D4F0608	\$2575.00
1600	DB50, DBL50	3 Wire	800A	PDB50D3F0808	\$2350.00
1600	DB50, DBL50	3 Wire	1600A	PDB50D3F1608	\$2350.00
1600	DB50, DBL50	4 Wire	800A	PDB50D4F0808	\$2575.00
1600	DB50, DBL50	4 Wire	1600A	PDB50D4F1608	\$2575.00
3000	DB75	3 Wire	3000A	PDB75D3F3008	\$2600.00
3000	DB75	4 Wire	3000A	PDB75D4F3008	\$2825.00
4000	DB100	3 Wire	4000A	PDB10D3F4008	\$2850.00
4000	DB100	4 Wire	4000A	PDB10D4F4008	\$3075.00

Conversion kits come standard with a rating plug that matches the current sensor. For rating plugs with different values, price and order separately. See page 2-11.

\*Westinghouse is a trademark of Westinghouse Electric Corporation.



# Low Voltage Power and DC Circuit Breakers ProTrip™ Rating Plugs

ProTrip™ conversion kits come standard with a rating plug that matches the current sensor. For rating plugs with different values, price and order separately.



Rating Plug

## Reference Publications

ProTrip™ Trip Unit Conversion Kits for GE Power Circuit Breakers - Fact Sheet	DET-228
ProTrip™ Trip Unit Conversion Kits for *Westinghouse Power Circuit Breakers - Fact Sheet	DET-230
ProTrip™ Trip Unit Conversion Kits for *Allis-Chalmers Power Circuit Breakers - Fact Sheet	DET-231
ProTrip™ Trip Unit Conversion Kits for *I-T-E Power Circuit Breakers - Fact Sheet	DET-229

## Rating Plugs

Frame Size (Amps)	Sensor Rating (Amps)	Current Rating (Amps)	Current Range (Amps)	Product Number	List Price GO-104P
225 600 800	150	80	40-88	PT1C80GFD	\$149.00
225 600 800	150	100	50-110	PT1C100GFD	\$149.00
225 600 800	150	125	63-138	PT1C125GFD	\$149.00
225 600 800	150	150	75-165	PT1C150GFD <sup>1</sup>	\$149.00
225 600 800	225	150	75-165	PT225C150GFD	\$149.00
225 600 800	225	225	113-248	PT225C225GFD <sup>1</sup>	\$149.00
600	600	300	150-330	PT6C300GFD	\$149.00
600	600	400	200-440	PT6C400GFD	\$149.00
600	600	450	225-495	PT6C450GFD	\$149.00
600	600	500	250-550	PT6C500GFD	\$149.00
600	600	600	300-660	PT6C600GFD <sup>1</sup>	\$149.00
800	400	200	100-220	PT4C200GFD	\$149.00
800	400	225	113-248	PT4C225GFD	\$149.00
800	400	250	125-275	PT4C250GFD	\$149.00
800	400	300	150-330	PT4C300GFD	\$149.00
800	400	400	200-440	PT4C400GFD <sup>1</sup>	\$149.00
800 1600	800	400	200-440	PT8C400GFD	\$149.00
800 1600	800	450	225-495	PT8C450GFD	\$149.00
800 1600	800	500	250-550	PT8C500GFD	\$149.00
800 1600	800	600	300-660	PT8C600GFD	\$149.00
800 1600	800	700	350-770	PT8C700GFD	\$149.00
800 1600	800	800	400-880	PT8C800GFD <sup>1</sup>	\$149.00
1600	1600	800	400-880	PT16C800GFD	\$149.00
1600	1600	1000	500-1100	PT16C1000GFD	\$149.00
1600	1600	1100	550-1210	PT16C1100GFD	\$149.00
1600	1600	1200	600-1320	PT16C1200GFD	\$149.00
1600	1600	1600	800-1760	PT16C1600GFD	\$149.00
2000	2000	1000	500-1100	PT20C1000GFD	\$149.00
2000	2000	1200	600-1320	PT20C1200GFD	\$149.00
2000	2000	1500	750-1650	PT20C1500GFD	\$149.00
2000	2000	1600	800-1760	PT20C1600GFD	\$149.00
2000	2000	2000	1000-2200	PT20C2000GFD	\$149.00
3000	3000	1200	600-1320	PT30C1200GFD	\$149.00
3000	3000	1600	800-1760	PT30C1600GFD	\$149.00
3000	3000	2000	1000-2200	PT30C2000GFD	\$149.00
3000	3000	2500	1250-2750	PT30C2500GFD	\$149.00
3000	3000	3000	1500-3300	PT30C3000GFD <sup>1</sup>	\$149.00
4000	4000	1600	800-1760	PT40C1600GFD	\$149.00
4000	4000	2000	1000-2200	PT40C2000GFD	\$149.00
4000	4000	2500	1250-2750	PT40C2500GFD	\$149.00
4000	4000	3000	1500-3300	PT40C3000GFD	\$149.00
4000	4000	3600	1800-3960	PT40C3600GFD	\$149.00
4000	4000	4000	2000-4000	PT40C4000GFD <sup>1</sup>	\$149.00

Rating Plug furnished with conversion kit.

Note: Long Time pickup range is 0.5-1.1 times the rating plug value. 1.1 setting allows the breaker to carry 100% of the rating plug current value, not to exceed the continuous current (frame) rating of the breaker.

\*I-T-E is a registered trademark of Siemens Energy and Automation, Inc.

\*Westinghouse is a trademark of Westinghouse Electric Corporation.

\*Allis-Chalmers is a trademark of Allis-Chalmers Manufacturing Company Corporation.





# Low Voltage Power and DC Circuit Breakers

## EntelliGuard® TU Trip Unit

### Conversion Kits Selection Guide

## AKO25 C 3 F 06 04 A

GE	*Allis-Chalmers <sup>25</sup>	**I-T-E <sup>25</sup>	***Westinghouse <sup>25</sup>																																																																																																										
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<tr><td>DSL-206 = ADS06</td></tr> <tr><td>DA-50 = ADA50<sup>9</sup></td></tr> <tr><td>DB-50</td></tr> <tr><td>DBL-50 = ADB50</td></tr> <tr><td>DS-416 = ADS16</td></tr> <tr><td>DSL-416</td></tr> <tr><td>DS-420 = ADS20</td></tr> <tr><td>DS-532 = ADS53<sup>9</sup></td></tr> <tr><td>DA-75 = ADA75<sup>9</sup></td></tr> <tr><td>DB-75 = ADB75</td></tr> <tr><td>DS-632 = ADS32</td></tr> <tr><td>DA-100 = ADA10<sup>9</sup></td></tr> <tr><td>DB-100 = ADB10</td></tr> <tr><td>DS-840 = ADS40<sup>9</sup></td></tr> </table>	Breaker	DB-15 = ADB15	DK-15 = ADK15 <sup>9</sup>	DB-25	DBL-25 = ADB25	DK-25 = ADK25 <sup>9</sup>	DS-206	DSL-206 = ADS06	DA-50 = ADA50 <sup>9</sup>	DB-50	DBL-50 = ADB50	DS-416 = ADS16	DSL-416	DS-420 = ADS20	DS-532 = ADS53 <sup>9</sup>	DA-75 = ADA75 <sup>9</sup>	DB-75 = ADB75	DS-632 = ADS32	DA-100 = ADA10 <sup>9</sup>	DB-100 = ADB10	DS-840 = ADS40 <sup>9</sup>
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Blue = Blue-gray breaker with plastic escutcheon  
Gold = Gold breaker with metal escutcheon

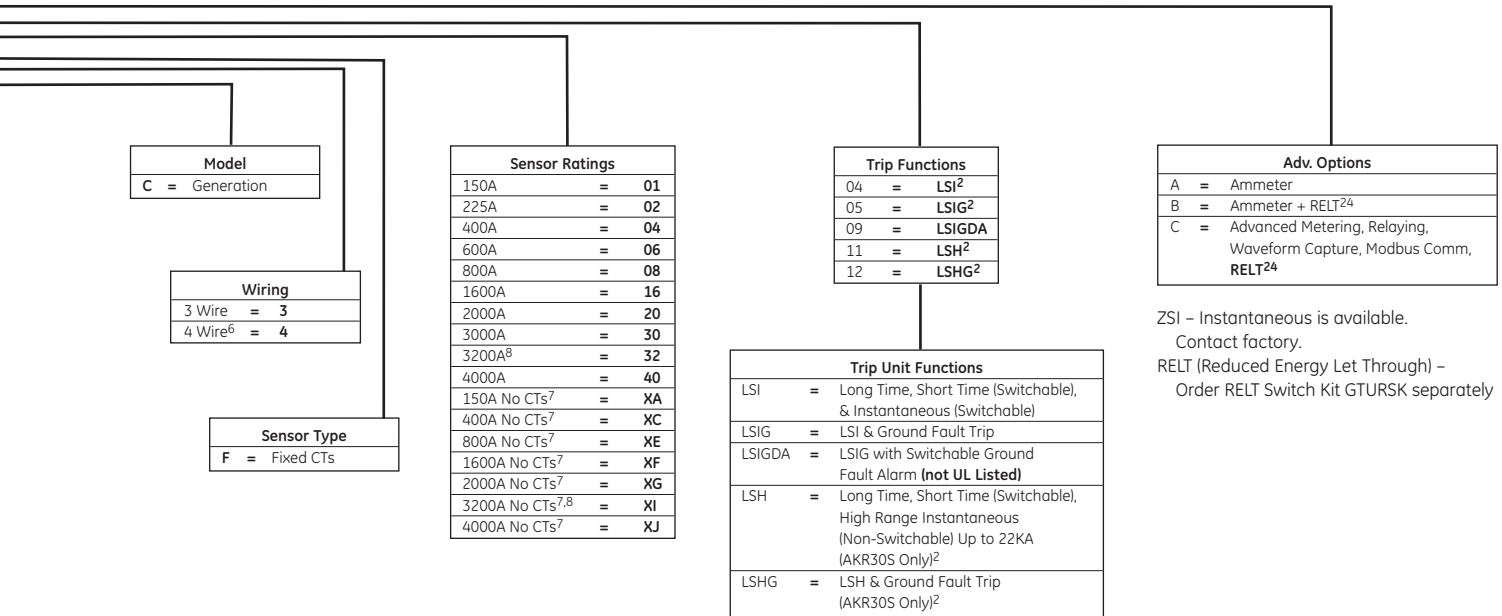
### Sensor Rating Selection

Frame	Sensors	Breaker Catalog Numbers			
		GE	*Allis-Chalmers	**I-T-E	***Westinghouse
225	150	AK-1-15, AK-15	Sensor rating not available.	KA, K-225	DB-15, DK-15
	225				
600	150	AK-1-25, AK-25, AKU-25	LA-25, LA-25A, LA-600, LAF-600	KB, K-600, KDON-600	DB-25, DBL-25, DK-25
	225				
	600				
800	150	AKR-30, AKR-30H, AKRU-30, AKR-30S, AKRU-30S	LA-50 (800A Version), LA-800, LAF-800, RL-800, RLE-800, RLX-800	KC (800A Version), K-800, KDON-800	DS-206, DSL-206
	400				
	800				
1600	800	AK-1-50, AK-50, AKU-50, AKS-50, AKSU-50, AKR-50, AKR-50H, AKRU-50, AKJ-50, AKJ-50H	LA-50 (1600A Version), LA-1600, LAF-1600, RL-1600, RLE-1600, RLX-1600	KC (1600A Version), K-1600, KDON-1600	DA-50, DB-50, DBL-50, DS-416, DSL-416
	1600				
2000	2000	AKT-50, AKST-50, AKRT-50, AKRT-50H, AKJT-50, AKJT-50H	RL-2000	K-2000	DS-420
3000	3000	AK-75	LA-75, LA-3000	KD, K-3000	DA-75, DB-75
3200	3200	AKR-75	LA-3200, RL-3200	—	DS-632
4000	4000	AK-100, AKR-100, AKW-100	LA-4000, RL-4000	KE, LG, K-4000	DA-100, DB-100, DS-840

\*Allis-Chalmers is a trademark of Allis-Chalmers Manufacturing Company Corporation.  
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\*\*\*Westinghouse is a trademark of Westinghouse Electric Corporation.



# Low Voltage Power and DC Circuit Breakers EntelliGuard® TU Trip Unit Conversion Kits Selection Guide



ZSI - Instantaneous is available. Contact factory.  
RELT (Reduced Energy Let Through) - Order RELT Switch Kit GTURSK separately

## Kits Without Sensors

For kits ordered without sensors, **deduct \$200.00** from the **list price** of the kit with sensors. Please refer to the sensor rating column above for the appropriate "X" sensor code.

## Zone Selective Interlock

For Zone Selective Interlock (ZSI) Short Time, Ground Fault and Instantaneous, **add \$550.00** to the list price. (Also requires purchase of ZSI module TIM1 [120 VAC control voltage], **list price \$402.00, GO-245B**.)

## Reference Publications

EntelliGuard® TU Conversion Kit Brochure	DET-722
EntelliGuard® TU Conversion Kit Supplemental Instructions	DEH-3456
EntelliGuard® TU Trip Unit Installation/Instruction Manual	DEH-4567
EntelliGuard® TU Test Set - GTUTK20	DEH-4568A
GE AK-1-15, AK-1-25	GEH-6466
GE AK-1-50	DEH-40027
GE AK-15, AK, AKU-25, AKR-30S, AKRU-30S	GEH-5967
GE AKR-30,30H, AKRU-30, AKR-50, AKJ-50 Series	GEH-5966
GE AK-100, AK,U,T,S,SU,ST-50, AK-75	GEH-5965
GE AKR-100, AKR-75, AKW-100	GEH-5964
Westinghouse DB-15	GEH-6318
Westinghouse DB-25, DBL-25 (225A), DB-50, DBL-50	GEH-6319
Westinghouse DS-206, DSL-206, DS416, DSL-416, DS-420, DS-632	DEH-023
Westinghouse DB-100 (4000A), DB-75 (3000A)	GEH-6320
ITE K-1600 (red), K, KDON-1600 Black, K-2000, K-225, K-600, KDON-600, K-800, KDON-800, KDON-1600 (red)	GEH-6294
ITE KC (1600A), KC (800A)	GEH-6433
ITE KA	GEH-6293
ITE KB (Metal), KB (Slate Drawout), KB (Slate Fixed)	GEH-6295
ITE K-3000, K-4000	DEH-133
ITE KD-3000, KE-4000	DEH-40019
Allis Chalmers LA, LAF - 1600 (BLUE), LA, LAF-600 (BLUE)	DEH-40008
Allis Chalmers LA, LAF - 1600 (GOLD), LA, LAF-600 (GOLD), LA, LAF-800, RL, RLX, RLE-1600 & 800	DEH-40009A

**Note:** Conversion Kit Pricing tables are located on pages 2-14 through 2-16.

<sup>1</sup>For converting AK-2 version breakers and newer, not applicable for AK-1 or AKR.

<sup>2</sup>AKR30S Instantaneous Is Non-Switchable and the Non-Switchable High Range Instantaneous max is 22KA. LSH and LSHG Are Only Available on AKR30S.

<sup>3</sup>Breakers equipped with older style open fuse lockout devices (OFLO), must be retrofitted with newer style OFLO device prior to conversion process. Order replacement OFLO kits as follows: AKU-50 - order OFLO Kit #121C2870G2, AK-75 - order OFLO kit #121C2870G3, AK-100 - order OFLO kit #121C2870G4.

<sup>4</sup>Not applicable for converting breakers equipped with Power Sensor - contact factory.

<sup>5</sup>Contact the factory for stationary breaker applications.

<sup>6</sup>Only applicable to trip units with ground fault.

<sup>7</sup>Available only for MicroVersaTrip RMS-9 type AKR breakers equipped with fixed current sensors.

<sup>8</sup>Not available on AK-75 breaker frames.

<sup>9</sup>Contact factory for availability.

<sup>10</sup>Not applicable for slate version breakers.

<sup>11</sup>Left pole accessories must be removed or relocated.

<sup>12</sup>Right pole accessories must be removed or relocated.

<sup>13</sup>1600-amp version of the KC breaker.

<sup>14</sup>800-amp version of the KC breaker.

<sup>15</sup>Order for red or black insulator as applicable.

<sup>16</sup>Not applicable to fixed mounted breakers.

<sup>17</sup>Only applicable for blue-gray color version breakers.

<sup>18</sup>Applicable to both "A" and "B" version breakers.

<sup>19</sup>Applicable to both nameplated versions of integral fused breakers (i.e., LA-600F and LAF-600).

<sup>20</sup>Only applicable for gold color version breakers.

<sup>21</sup>800-amp version of the LA-50 breaker.

<sup>22</sup>Only applicable for the 1600-amp, 6-pole primary disconnect version of the LA-50 breaker.

<sup>23</sup>Only applicable for 1600-amp, 12 pole primary disconnect version of the LA-50 breaker.

<sup>24</sup>Requires 24VDC control power.

<sup>25</sup>Existing Allis-Chalmers, I-T-E and Westinghouse bell alarms will not work with EntelliGuard TU..



# Low Voltage Power and DC Circuit Breakers

## EntelliGuard® TU Trip Unit Conversion Kits Selection Guide

Pricing for EntelliGuard® TU are determined by the Frame Rating, Breaker Model, 3 or 4 wire, Trip Functions, and Advanced Features. (Example: Items highlighted in bold **AKO25 C 3 F 06 04 A**)

### For GE Power Circuit Breakers

#### EntelliGuard® TU Trip Unit Conversion Kits for 3-Phase, 3-Wire, List Price, GO-104G

Frame Amps	Breaker Model	LSI <sup>1</sup> (04)			LSIG <sup>1</sup> (05)			LSIGDA (09)		
		Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)	Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)	Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)
225	AK115	<b>\$2520.00</b>	<b>\$2820.00</b>	<b>\$4920.00</b>	<b>\$3000.00</b>	<b>\$3300.00</b>	<b>\$5400.00</b>	<b>\$3620.00</b>	<b>\$3920.00</b>	<b>\$6020.00</b>
	AKO15									
600	AK125	<b>\$2620.00</b>	<b>\$2920.00</b>	<b>\$5040.00</b>	<b>\$3100.00</b>	<b>\$3400.00</b>	<b>\$5520.00</b>	<b>\$3720.00</b>	<b>\$4020.00</b>	<b>\$6140.00</b>
	AKO25									
800	AKR30	<b>\$2620.00</b>	<b>\$2920.00</b>	<b>\$5040.00</b>	<b>\$3100.00</b>	<b>\$3400.00</b>	<b>\$5520.00</b>	<b>\$3720.00</b>	<b>\$4020.00</b>	<b>\$6140.00</b>
	AKR3S <sup>1</sup>									
1600	AK150	<b>\$2620.00</b>	<b>\$2920.00</b>	<b>\$5040.00</b>	<b>\$3100.00</b>	<b>\$3400.00</b>	<b>\$5520.00</b>	<b>\$3720.00</b>	<b>\$4020.00</b>	<b>\$6140.00</b>
	AKO50									
	AKR50									
2000	AK150	<b>\$2720.00</b>	<b>\$3020.00</b>	<b>\$5140.00</b>	<b>\$3200.00</b>	<b>\$3500.00</b>	<b>\$5620.00</b>	<b>\$3820.00</b>	<b>\$4120.00</b>	<b>\$6240.00</b>
	AKO50									
	AKR50									
3000	AKO75	<b>\$2720.00</b>	<b>\$3020.00</b>	<b>\$5140.00</b>	<b>\$3200.00</b>	<b>\$3500.00</b>	<b>\$5620.00</b>	<b>\$3820.00</b>	<b>\$4120.00</b>	<b>\$6240.00</b>
3200	AKR75									
4000	AKO10	<b>\$2720.00</b>	<b>\$3020.00</b>	<b>\$5140.00</b>	<b>\$3200.00</b>	<b>\$3500.00</b>	<b>\$5620.00</b>	<b>\$3820.00</b>	<b>\$4120.00</b>	<b>\$6240.00</b>
	AKR10									
	AKW10									

<sup>1</sup>For AK30S breakers (AKR3S), LSH and LSHG List Pricing is the same as LSI and LSIG, respectively.

### For GE Power Circuit Breakers

#### EntelliGuard® TU Trip Unit Conversion Kits for 3-Phase, 4-Wire, List Price, GO-104G

Frame Amps	Breaker Model	LSI			LSIG <sup>1</sup> (04)			LSIGDA (09)		
		Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)	Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)	Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)
225	AK115	-	-	-	<b>\$3275.00</b>	<b>\$3575.00</b>	<b>\$5675.00</b>	<b>\$3895.00</b>	<b>\$4195.00</b>	<b>\$6295.00</b>
	AKO15									
600	AK125	-	-	-	<b>\$3375.00</b>	<b>\$3675.00</b>	<b>\$5795.00</b>	<b>\$3995.00</b>	<b>\$4295.00</b>	<b>\$6415.00</b>
	AKO25									
800	AKR30	-	-	-	<b>\$3375.00</b>	<b>\$3675.00</b>	<b>\$5795.00</b>	<b>\$3995.00</b>	<b>\$4295.00</b>	<b>\$6415.00</b>
	AKR3S <sup>1</sup>									
1600	AK150	-	-	-	<b>\$3375.00</b>	<b>\$3675.00</b>	<b>\$5795.00</b>	<b>\$3995.00</b>	<b>\$4295.00</b>	<b>\$6415.00</b>
	AKO50									
	AKR50									
2000	AK150	-	-	-	<b>\$3475.00</b>	<b>\$3775.00</b>	<b>\$5895.00</b>	<b>\$4095.00</b>	<b>\$4395.00</b>	<b>\$6515.00</b>
	AKO50									
	AKR50									
3000	AKO75	-	-	-	<b>\$3475.00</b>	<b>\$3775.00</b>	<b>\$5895.00</b>	<b>\$4095.00</b>	<b>\$4395.00</b>	<b>\$6515.00</b>
3200	AKR75									
4000	AKO10	-	-	-	<b>\$3475.00</b>	<b>\$3775.00</b>	<b>\$5895.00</b>	<b>\$4095.00</b>	<b>\$4395.00</b>	<b>\$6515.00</b>
	AKR10									
	AKW10									

<sup>1</sup>For AK30S breakers (AKR3S), LSH and LSHG List Pricing is the same as LSI and LSIG, respectively.

### For \*Allis-Chalmers Power Circuit Breakers

#### EntelliGuard® TU Trip Unit Conversion Kits for 3-Phase, 3-Wire, List Price, GO-104G

Frame Amps	Breaker <sup>2</sup> Model	LSI (04)			LSIG (05)			LSIGDA (09)		
		Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)	Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)	Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)
600	ASL6B	<b>\$2960.00</b>	<b>\$3260.00</b>	<b>\$5360.00</b>	<b>\$3440.00</b>	<b>\$3740.00</b>	<b>\$5840.00</b>	<b>\$4060.00</b>	<b>\$4360.00</b>	<b>\$6460.00</b>
	ASL6G									
800	ASL80	<b>\$3060.00</b>	<b>\$3360.00</b>	<b>\$5460.00</b>	<b>\$3540.00</b>	<b>\$3840.00</b>	<b>\$5940.00</b>	<b>\$4160.00</b>	<b>\$4460.00</b>	<b>\$6560.00</b>
	ASR80									
1600	ASL1B	<b>\$3060.00</b>	<b>\$3360.00</b>	<b>\$5460.00</b>	<b>\$3540.00</b>	<b>\$3840.00</b>	<b>\$5940.00</b>	<b>\$4160.00</b>	<b>\$4460.00</b>	<b>\$6560.00</b>
	ASL1G									
	ASR16									

<sup>2</sup>Contact Factory for Pricing and Availability on Breaker Models not listed.

\*Allis-Chalmers is a trademark of Allis-Chalmers Manufacturing Company Corporation.



# Low Voltage Power and DC Circuit Breakers

## EntelliGuard® TU Trip Unit Conversion Kits Selection Guide

For \*Allis-Chalmers Power Circuit Breakers

EntelliGuard® TU Trip Unit Conversion Kits for 3-Phase, 4-Wire, List Price, GO-104G

Frame Amps	Breaker <sup>2</sup> Model	LSI			LSIG (05)			LSIGDA (09)		
		Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)	Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)	Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)
600	ASL6B	—	—	—	\$3715.00	\$4015.00	\$6115.00	\$4335.00	\$4635.00	\$6735.00
	ASL6G									
800	ASL80									
	ASR80									
1600	ASL1B	—	—	—	\$3815.00	\$4115.00	\$6215.00	\$4435.00	\$4735.00	\$6835.00
	ASL1G									
	ASR16									

For \*\*I-T-E Power Circuit Breakers

EntelliGuard® TU Trip Unit Conversion Kits for 3-Phase, 3-Wire, List Price, GO-104G

Frame Amps	Breaker <sup>2</sup> Model	LSI (04)			LSIG (05)			LSIGDA (09)		
		Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)	Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)	Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)
225	AIKA2									
	AIK22									
600	AIKBM	\$2720.00	\$3020.00	\$5140.00	\$3200.00	\$3500.00	\$5620.00	\$3820.00	\$4120.00	\$6240.00
	AIKBS									
	AIKBX									
	AIK60									
800	AIKC8									
	AIK80									
1600	AIKC1	\$2820.00	\$3120.00	\$5240.00	\$3300.00	\$3600.00	\$5720.00	\$3920.00	\$4220.00	\$6340.00
	AIK16									
	AIK1B									
	AIKN1									
2000	AIK20	\$2920.00	\$3220.00	\$5340.00	\$3400.00	\$3700.00	\$5820.00	\$4020.00	\$4320.00	\$6440.00
3000	AIK30	\$4120.00	\$4420.00	\$6540.00	\$4600.00	\$5100.00	\$7020.00	\$5220.00	\$5520.00	\$7640.00
4000	AIK40									

For \*\*I-T-E Power Circuit Breakers

EntelliGuard® TU Trip Unit Conversion Kits for 3-Phase, 4-Wire, List Price, GO-104G

Frame Amps	Breaker <sup>2</sup> Model	LSI			LSIG (05)			LSIGDA (09)		
		Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)	Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)	Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)
225	AIKA2									
	AIK22									
600	AIKBM	—	—	—	\$3475.00	\$3775.00	\$5895.00	\$4095.00	\$4395.00	\$6515.00
	AIKBS									
	AIKBX									
	AIK60									
800	AIKC8									
	AIK80									
1600	AIKC1	—	—	—	\$3575.00	\$3875.00	\$5995.00	\$4195.00	\$4495.00	\$6615.00
	AIK16									
	AIK1B									
	AIKN1									
2000	AIK20	—	—	—	\$3675.00	\$3975.00	\$6095.00	\$4295.00	\$4595.00	\$6715.00
3000	AIK30									
4000	AIKE4	—	—	—	\$4875.00	\$5375.00	\$7295.00	\$5495.00	\$5795.00	\$7915.00
	AIK40									

<sup>2</sup>Contact Factory for Pricing and Availability on Breaker Models not listed.

\*Allis-Chalmers is a trademark of Allis-Chalmers Manufacturing Company Corporation.

\*\*I-T-E is a registered trademark of Siemens Energy and Automation, Inc.



# Low Voltage Power and DC Circuit Breakers

## EntelliGuard® TU Trip Unit

### Conversion Kits Selection Guide

Switchgear 2

For \*Westinghouse Power Circuit Breakers

#### EntelliGuard® TU Trip Unit Conversion Kits for 3-Phase, 3-Wire, List Price, GO-104

Frame Amps	Breaker <sup>1</sup> Model	LSI (04)			LSIG (05)			LSIGDA (09)		
		Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)	Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)	Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)
225	ADB15	\$2520.00	\$2820.00	\$4920.00	\$3000.00	\$3300.00	\$5400.00	\$3620.00	\$3920.00	\$6020.00
600	ADB25									
800	ADS06									
1600	ADB50	\$3060.00	\$3360.00	\$5460.00	\$3540.00	\$3840.00	\$5940.00	\$4160.00	\$4460.00	\$6560.00
	ADS16									
2000	ADS20	\$3260.00	\$3560.00	\$5660.00	\$3740.00	\$4040.00	\$6140.00	\$4360.00	\$4660.00	\$6760.00
3000	ADB75									
3200	ADS32									
4000	ADB10									

For \*Westinghouse Power Circuit Breakers

#### EntelliGuard® TU Trip Unit Conversion Kits for 3-Phase, 4-Wire, List Price, GO-104G

Frame Amps	Breaker <sup>1</sup> Model	LSI			LSIG (05)			LSIGDA (09)		
		Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)	Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)	Ammeter (A)	Ammeter + RELT (B)	All Advanced Options (C)
225	ADB15	-	-	-	\$3275.00	\$3575.00	\$5675.00	\$3895.00	\$4195.00	\$6295.00
600	ADB25									
800	ADS06									
1600	ADB50	-	-	-	\$3815.00	\$4115.00	\$6215.00	\$4435.00	\$4735.00	\$6835.00
	ADS16									
2000	ADS20	-	-	-	\$4015.00	\$4315.00	\$6415.00	\$4635.00	\$4935.00	\$7035.00
3000	ADB75									
3200	ADS32									
4000	ADB10									

<sup>1</sup>Contact Factory for Pricing and Availability on Breaker Models not listed.

#### EntelliGuard® TU Trip Rating Plug Specifications

Trip Plug Product Number	Plug Rating	May Be Used With		List Price GO-329R
		Minimum Sensor	Maximum Sensor	
GTP0060U0101	60A <sup>2</sup>	150A <sup>4</sup>	150A <sup>4</sup>	\$130.00
GTP0080U0101	80A <sup>2</sup>	150A <sup>4</sup>	150A <sup>5</sup>	\$130.00
GTP0100U0103	100A <sup>3</sup>	150A <sup>4</sup>	225A <sup>5</sup>	\$130.00
GTP0125U0103	125A <sup>2</sup>	150A <sup>4</sup>	225A <sup>5</sup>	\$130.00
GTP0150U0104	150A	150A <sup>4</sup>	400A	\$130.00
GTP0200U0204	200A	200A <sup>5</sup>	400A	\$130.00
GTP0225U0306	225A	225A	600A	\$130.00
GTP0250U0407	250A	400A	630A <sup>6</sup>	\$130.00
GTP0300U0408	300A	400A	800A	\$130.00
GTP0350U0408	350A	400A	800A	\$130.00
GTP0400U0410	400A	400A	1000A	\$130.00
GTP0450U0612	450A	600A	1200A	\$130.00
GTP0500U0613	500A	600A	1250A <sup>6</sup>	\$130.00
GTP0600U0616	600A	600A	1600A	\$130.00
GTP0700U0816	700A	800A	1600A	\$130.00
GTP0750U0820	750A	800A	2000A	\$130.00
GTP0800U0820	800A	800A	2000A	\$130.00
GTP0900U1020	900A	1000A	2000A	\$130.00
GTP1000U1025	1000A	1000A	2500A	\$130.00
GTP1100U1225	1100A	1200A	2500A	\$130.00
GTP1200U1232	1200A	1200A	3200A	\$130.00
GTP1500U1640	1500A	1600A	4000A	\$130.00
GTP1600U1640	1600A	1600A	4000A	\$130.00
GTP1900U2050	1900A	2000A	5000A	\$130.00
GTP2000U2050	2000A	2000A	5000A	\$130.00
GTP2200U2550	2200A	2500A	5000A	\$130.00
GTP2400U2564	2400A	2500A	6400A <sup>6</sup>	\$130.00
GTP2500U2564	2500A	2500A	6400A <sup>6</sup>	\$130.00
GTP3000U3064	3000A	3000A	6400A <sup>6</sup>	\$130.00
GTP3200U3264	3200A	3200A	6400A <sup>6</sup>	\$130.00
GTP3600U4064	3600A	4000A	6400A <sup>6</sup>	\$130.00
GTP4000U4064	4000A	4000A	6400A <sup>6</sup>	\$130.00
GTP5000U5064	5000A	5000A	6400A <sup>6</sup>	\$130.00
GTP6000U6064	6000A	6000A	6400A <sup>6</sup>	\$130.00

<sup>2</sup>WavePro and AKR only. EntelliGuard® G min. trip plug is 150A.

<sup>3</sup>PowerBreak only. EntelliGuard® G min. trip plug is 150A.

<sup>4</sup>WavePro and AKR only. EntelliGuard® G min. sensor is 400A.

<sup>5</sup>PowerBreak only. EntelliGuard® G min. sensor is 400A.

<sup>6</sup>IEC only sensor, UL equivalents are 600A.

\*Westinghouse is a trademark of Westinghouse Electric Corporation.



# Low Voltage Power and DC Circuit Breakers

## EntelliGuard® TU Trip Unit

### Conversion Kit Accessories and Hardware

#### Conversion Kit Accessories and Hardware

Description	Product Number	List Price	GO Schedule
4 wire RELT & Ground Fault Alarm Harness kit. Used to add RELT or Ground Fault Alarm to an existing MVT installation in combination with an EntelliGuard® TU. Harness comes with Breaker and Cubicle side, 8 feet of wire, terminal block, and RELT Labels <sup>1</sup>	GTURHA	\$150.00	GO-104G
4 wire RELT & Ground Fault Alarm Harness kit. Used to add RELT or Ground Fault Alarm to an existing MVT installation in combination with an EntelliGuard® TU. Harness comes with Breaker and Cubicle side, 8 feet of wire, terminal block, and RELT Labels. Includes 9 Pin Harness for 24VDC, Communications, and Voltage Source.	GTURHB	\$200.00	GO-104G
RELT Switch Kit: Includes the following: RELT Switch, Lockable cover, contacts, wire harness, warning labels	GTURSK	\$485.00	GO-104G
Zone Selective Interlock Module	TIM1	\$402.00	GO-245B
Power Leader Voltage Conditioners – Supplies isolated bus voltage signal to EntelliGuard® TU trip units	PLVC1G01	\$200.00/set	GO-104A
Power Leader Power Supply 1.5A power supply. Qty 15 trip units may be powered from a single power supply	PLPS4G01	\$1250.00	GO-104A
GE Portable Test Kit – Used for testing phase currents, Ground Fault, disabling Ground fault, RELT, Trip Breaker	GTUTK20	\$3000.00	GO-245B
Rating Plug Removal Tool	TRTOOL	\$12.00	GO-135S
Set-up Software	GTUSS	\$200.00	GO-329R

<sup>1</sup>RELT and Ground Fault Alarm require 24VDC. If 24VDC cable is required order GTURHB

EntelliGuard® TU Trip Units are compatible with MicroVersaTrip®, RMS9, EPIC RMS9, MicroVersaTrip® Plus and PM, Enhanced MicroVersaTrip® Plus and PM Trip Units models.

Coming Soon:

Power Break® II in a Power Break® I (fixed and drawout)

EntelliGuard® G in AKD-5, AKD-6, AKD-8 switchgear line-ups

Contact factory for availability and options



# Low Voltage Power and DC Circuit Breakers Trip Unit

## Accessories

Switchgear

2

### Optional Remote Display—Features

- Provides safe, convenient closed-door access to breaker metering, status and setup functions
- Available for use with either MicroVersaTrip® Plus or MicroVersaTrip® PM trip units
- Rugged plastic NEMA Type 1 enclosure with LCD and keypad
- Mounts easily on outside of breaker compartment door
- Sealable, clear LEXAN protective cover over display and "Enter" key prohibits unauthorized trip setting changes
- Connects to breaker trip unit via 20-pin plug-in cable for fast installation
- Breaker trip unit operates independently if cable is disconnected



Optional Remote Display

### Optional Remote Display (for MicroVersaTrip®)

Accessory Type	Product Number	List Price
		GO-104B
Remote Display w/ 6' Cable	REMDIS1	\$350.00
Replacement Cable	REMDIS2	\$35.00



Target Module

### Target Module (for ProTrip™)

All ProTrip™ conversion kits come with a target module. Order another only for renewal purposes.

Product Number	List Price
GO-104P	
TARGET02P	\$285.00

### GE Trip Unit Portable Test Set (for MicroVersaTrip® and ProTrip™)

Allows for self-tests and functioning trip/no trip tests. Operates on batteries (not included) or 120 VAC source.

Product Number	List Price
GO-245B	
TVRMS2	\$3000.00



GE Trip Unit Portable Test Set

### EntelliGuard® TU Test Set

Allows for self-tests and functioning trip/no trip tests. Operates on batteries (not included) or 120 VAC source.

Product Number	List Price
GO-245B	
GTUTK20	\$3000.00



EntelliGuard® TU Test Set



# Low Voltage Power and DC Circuit Breakers Trip Unit

## Accessories

### POWER LEADER® Power Supply

The POWER LEADER® power supply provides 24Vdc control power to MicroVersaTrip® PM trips units used on WavePro low voltage power circuit breakers. The control power is required for the trip unit's communication and protective relay functions.

Description	Product Number	List Price GO-104A	System Requirements (Not included with power supply)
1.5A power supply. Maximum wire length from power supply to trip device is 100 feet. A maximum of 45 trip units may be powered from a single power supply.	PLPS4G01	\$1250.00	Input power, 100VA (85-265 Vac or 100-370 Vdc)

### POWER LEADER® Voltage Conditioner

Conditions and scales 120Vac to 1.76Vac for use by the trip unit for voltage sensing. Provides transient protection. Requires isolation PTs with 120 volt secondary. Supports up to 15 trip units at a maximum distance of 20 feet. Required for PM trip units only.

Description	Product Number	List Price GO-104A	System Requirements (Not included with voltage conditioners)
Supplies isolated bus voltage signal to MicroVersaTrip® PM trip units.	PLVC1G01	\$200.00/set	One set of 3 voltage conditioners required for each sensing location. PTs also required.

### MicroVersaTrip® Portable Power Pack

The MicroVersaTrip® Portable Battery Pack is a maintenance power source used to power up trip units for setting or adjusting trip set points or for reading trip targets when the trip unit is not otherwise energized. It is a redundant power source to the onboard battery supplied with the Enhanced MicroVersaTrip® Plus and PM (5-button keypad) trip units. The portable battery pack connects to the trip unit through the rating plug test jack. It requires three (3) standard 9Vdc alkaline batteries (not included).

Description	Product Number	List Price GO-245A
MicroVersaTrip® Portable Power Pack	TVPBP	\$75.00

### MicroVersaTrip® and EntelliGuard® Rating Plug Removal Tool

Description	Product Number	List Price GO-1355
MicroVersaTrip® and EntelliGuard® Rating Plug Removal Tool	TRTOOL	\$12.00





# Low Voltage Power and DC Circuit Breakers Electrically Operated Racking Device

The electrically operated racking device allows maintenance personnel the ability to be up to 30 feet away from a draw-out breaker during the racking operation. This was typically only an option with medium voltage switchgear. Now, GE offers this as an option with low voltage switchgear.

The electric motor is operated using convenient 115V AC power with a plug-in power cord. The gearbox is easily attached to the front of the breaker with a sliding latch connection.

The low voltage racking devices can be used with any WavePro or EntelliGuard® breaker. Large frame WavePro breakers (3200 Amp and above)<sup>1</sup> require an accessory kit and a retrofit door to accommodate the device.

Allowing the user to be physically removed from the breaker racking mechanics during operation provides a peace of mind not usually available in a low voltage application.

<sup>1</sup>Manufactured before 9/1/05.



## Easy and Safe Operation



**PRESS!**

A push of the button on a handheld remote operator draws the breaker out with a 115V AC motor in the gear box.



**PRESS!**

Another push of the button racks the breaker back into place.



# Low Voltage Power and DC Circuit Breakers Electrically Operated Racking Device

## Technical Specifications

### Remote operation through a cable-connected handheld control

- Permits control of gearbox and racking motor from remote location, allowing the user to be remote from the breaker during the racking procedure.
- Cable allows user to be up to 30 feet away from the breaker and away from the arc flash center.
- Allows user to determine their location based on room layout.
- Simple start switch push button in handheld box.

### Portable gearbox with full operator control

- Allows the user to easily move a draw-out circuit breaker between CONNECT and DISCONNECT positions.
- Can be used with WavePro or EntelliGuard® breakers in Entellisys®, AKD-10 or Power Break® switchboard line-ups (with WavePro breakers).
- Motor directional switch for IN/OUT racking control.
- Circuit breaker reset toggle switch for control power.

### Racking Device

- Electrically powered with 115V AC power (4 foot cord).
- Sliding latch allowing device to be easily attached to front of breakers (WavePro or EntelliGuard®).

### Retrofits (Product shipped before June 2005)

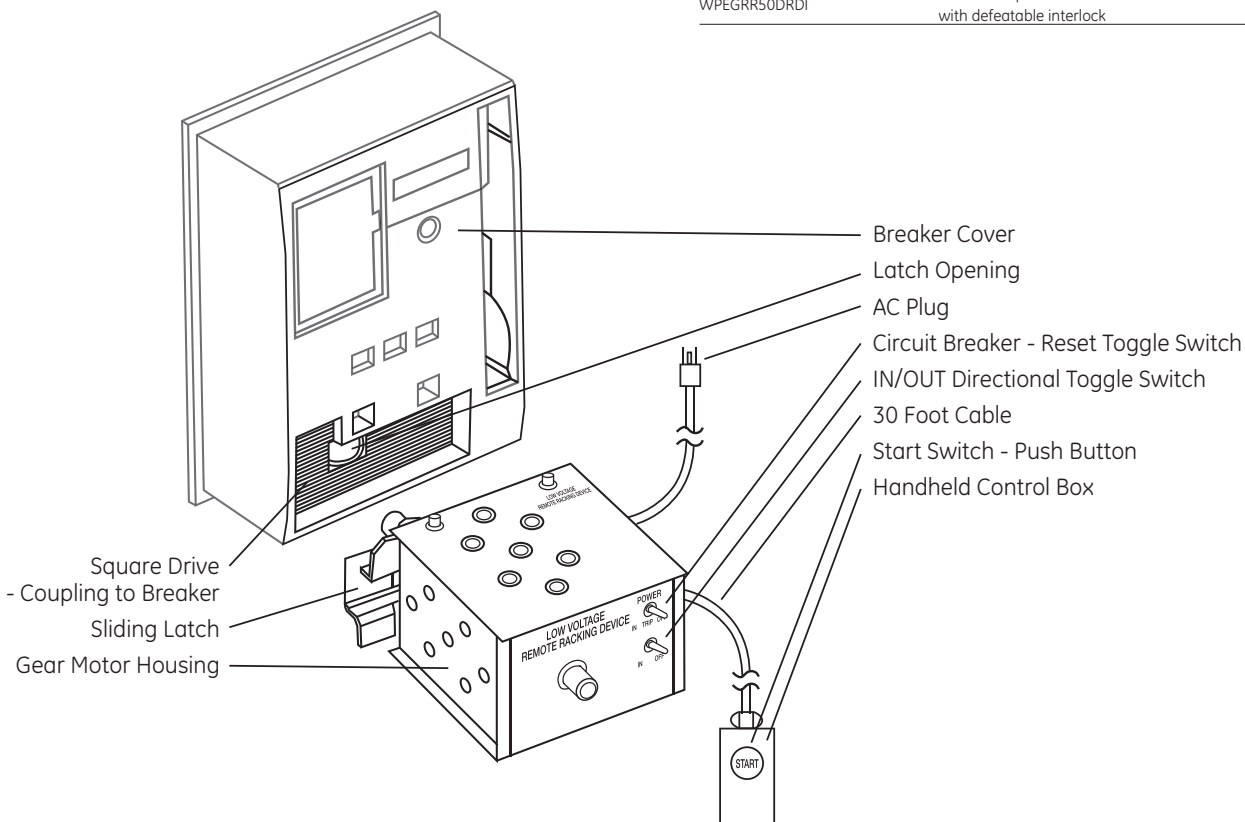
- Small Frame (800 - 2000 Amp) WavePro breakers accept the Racking Device without modification.
- Existing Large Frame (3200 - 5000 Amp) WavePro breakers compatible by simply replacing the cubicle door.
- All EntelliGuard® breakers accept the Racking Device without modifications.

### Racking Devices

Product Number	Description
WPEGRRLV	Remote Racking Device
WPEGRRMODL	Large Frame Breaker Modification Kit (3200-5000 Amp)

### Retrofit Doors for Large Frame WavePro

Product Number	Description
WPEGRRLFDR	3200/4000 Amp WavePro
WPEGRRLFDRDI	3200/4000 Amp WavePro with defeatable interlock
WPEGRR50DR	5000 Amp WavePro
WPEGRR50DRDI	5000 Amp WavePro with defeatable interlock



# Low Voltage Power and DC Circuit Breakers Reference Publications

## General Installation and Maintenance

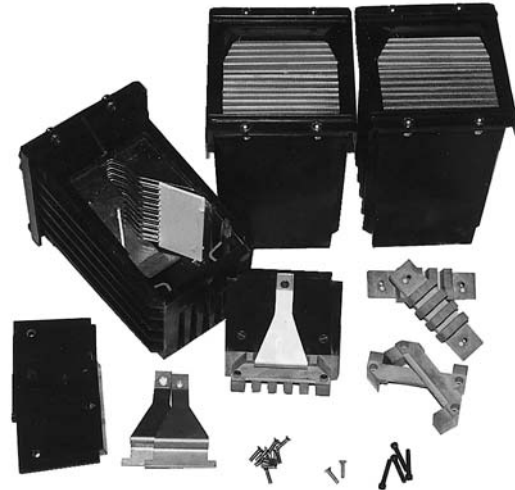
Publication Number	Publication Name
DEH-136	WavePro Small Frame Maintenance Manual, WP-08-20
DEH-137	WavePro Large Frame Maintenance Manual, WP-32-50
DEH-178	User's Guide - MicroVersaTrip® Plus/PM Trip Units
DEH-179	User's Guide - Power+ Trip Unit
GEH-5945	Power Leader® Recommended Power Supplies
GEH-5946	Power Leader® Voltage Conditioner
DEJ-001	Portable Battery Power Pack
GEK-64467	Zone Selective Interlock Module
DEH-134	WavePro Small Frame User's Manual, WP-08-20
DEH-135	WavePro Large Frame User's Manual, WP-32-50
GEK-97367A	User's Guide TVRMS2 Programmer Portable Test Set
DEF-004	WavePro Small Frame (800-2000A) Renewal Parts Guide
DEF-005	WavePro Large Frame (3200-5000A) Renewal Parts Guide
DES-001	WavePro Time-Current Curves (LSI)
DES-002	WavePro Time-Current Curves (GF)
DES-026	WavePro Time-Current Curves (Special GF)
DET-167	WavePro Breaker Application Guide
DEP-080	WavePro Selection and Pricing Guide
DEE-194	WavePro User Publications Summary—WavePro Breakers and AKD-10 Switchgear



# Low Voltage Power and DC Circuit Breakers Asbestos Free Arc Quencher Replacement Kits

GE's Asbestos Free Arc Quencher Replacement Kits are designed to replace asbestos plate style arc quenchers on AK and early AKR power circuit breakers with reliable, proven steel plate style arc quenchers used on modern AKR breakers. The kits have been ANSI C37.59 tested for dielectric and short circuit ensuring breaker performance to original specifications. On most AK series breakers, no modifications are needed to install the arc quencher replacement kit. Installation is typically done in less than one hour (see Installation Instructions GEH-6464). Asbestos Free Arc Quencher replacement kits are shipped complete with detailed installation instructions and everything you need for fast and easy arc quencher replacement:

- Asbestos free metal plate or ceramic arc quenchers
- Contact guides and arc runners (when required)
- Asbestos free replacement barriers (when required)
- All required mounting hardware



## Reference Publications

Asbestos Free Arc Quencher Replacement Kits	DET-096
Installation Instructions	GEH-6464

## Product Number Selection

Breaker	AKO25	AQR1	G1	Application
AK-15		AQR1		For Asbestos Removal
AK-25	AKO25 <sup>1,2,3</sup>	Arc Quencher Replacement Kit		Renewal Kit for
AKU-25		Generation 1		Ceramic Arc Quenchers
AKR-30S	AKR3S <sup>1,2</sup>			
AKR-30	AKR30			
AKRU-30				
AKR-30H	AKR3H			
AKRU-30H				
AK-50				
AKT-50	AKO50 <sup>2,3</sup>			
AKU-50				
AKJ-50				
AKJT-50				
AKJU-50	AKR50			
AKR-50				
AKRT-50				
AKRU-50				
AKJ-50H				
AKJT-50H				
AKJU-50H	AKR5H			
AKR-50H				
AKRT-50H				
AKRU-50H				
AKJ-50				
AKJT-50	AKD50 <sup>4</sup>			
AKJU-50				
AKJ-50H				
AKJT-50H	AKD5H <sup>4</sup>			
AKJU-50H				
AK-75	AKO75 <sup>2,3</sup>			
AKR-75	AKR75 <sup>2</sup>			
AK-100	AKO10 <sup>2,3</sup>			
AKR-100	AKR10 <sup>2</sup>			

Arc Quenchers Replacement Kit		
Product Number	List Price, GO-1048	
	G1	G2
AKO25AQR1	\$800.00	—
AKR35AQR1	\$800.00	—
AKR30AQR1	\$2000.00	\$2000.00
AKR3HAQR1	\$2300.00	\$2300.00
AKO50AQR1	\$2350.00	—
AKR50AQR1	\$2000.00	\$2000.00
AKR5HAQR1	\$2300.00	\$2300.00
AKD50AQR1	\$2000.00	\$2000.00
AKD5HAQR1	\$2300.00	\$2300.00
AKO75AQR1	\$2900.00	—
AKR75AQR1	\$2700.00	—
AKO10AQR1	\$3600.00	—
AKR10AQR1	\$3250.00	—

## Price Selection

Select the desired product number from the above chart. Match the product prefix with the product number in the first column of the pricing table. Select the application column that matches the product suffix chosen. The price is found in the intersecting box.

<sup>1</sup>Kits contain replacement barriers only, arc quenchers do not contain asbestos.

<sup>2</sup>G2 kits are not available for these breakers, please contact the factory for individual replacement arc quenchers.

<sup>3</sup>Does not apply to AK-1 series breakers.

<sup>4</sup>These kits are for use on breakers used in AKD and AKD-5 switchgear and substructures.





# Section 3: Motor Control Centers Table of Contents



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## EVOLUTION SERIES E9000®/Spectra®/8000 Low Voltage Motor Control Centers

### Product References:

Engineered Products Catalog	Section 10
Application and Selection Guide	E9000 DET291A
Application and Selection Guide	Spectra/8000 GET6729

## Motor Control Center Units (Starters and Feeders) GE Fastrac Program: 1 week

### Product References:

Engineered Products Catalog	Section 10
DE-415 Quick Selection Software (3 1/2" diskette)	
Fastrac items are listed in red type.	

This catalog contains replacement parts, retrofits, accessories, and older generation products. For current generation products, please see the GE BuyLog® or Control Catalog.



# Motor Control Centers History/Timeline

## The Evolution to E9000

### Low Voltage Transformers History/Timeline

1948	CR7097 Schenectady NY
1952	IC7092 Salem VA DA7093 & 7098 Seattle, WA./San Leandro, CA. DA7092 North Hollywood DA7093 Norwood, OH.
1960	7700 Line
1975	2700 Line
1980	8000 Line
1996	SPECTRA
2003	Evolution Series E9000

### Limitamp

### Medium Voltage History/Timeline

1949	1st oil-immersed contactor & fuse starter, 54"W x 60"D
1955	1st front-connected, roll-out Air Break starter
1960	1st fully drawout medium voltage starter
1966	Swing-open contactor, 3-high construction introduced
1972	700 Amp contactor, 2-high contactor design, SPM
1980	Hybrid 400 Amp vacuum contactor introduced
1985	Vacuum Limitamp, uSPM for synchronous motors
1994	CR194 2-high stationary introduction
1995	CR194 2-high drawout introduction
2000	400A Soft Starter
2002	800A Soft Starter
2003	3000A Bus
2007	CR194 1-high UL drawout introduction

This catalog contains replacement parts, retrofits, accessories, and older generation products. For current generation products, please see the GE BuyLog® or Control Catalog.



# Motor Control Centers—Low Voltage

## GE Motor Control Centers

### Introduction

GE motor control centers offer an ideal means of quickly providing centralized motor control and other related control equipment.

A pre-engineered version of the GE motor control center is available at short-cycle and mid-cycle shipment. The product scope available is more limited than with normal cycle shipments, and includes certain combination starter units, feeder units, distribution transformers, lighting panels, relaying panels, programmable controllers and other miscellaneous devices to be installed in a single, floor-mounted enclosure and fed from a common enclosed horizontal and vertical bus system.

Each GE motor control center vertical section is constructed of 0.090-inch (13-gauge) steel which is subjected to a special corrosion-resistant zinc-phosphate treatment followed by a powder paint process using ANSI-61 light gray alkyd-enamel paint. Each section houses the horizontal and vertical bus, horizontal and vertical wireways and the compartmentalized individual control units. Standard unit construction is Class I Type B wiring<sup>1</sup>. Factory assembled, wired and tested units are mounted in each vertical section, and sections are easily bolted together to form a motor control center line-up. The entire line-up is then powered by a single incoming-line connection.

Standard UL labeled NEMA 1 enclosure contains 600-ampere, three-phase, copper tin-plated horizontal main bus, 300-ampere, three-phase, copper tin-plated vertical bus and is braced to withstand a fault current of 65,000 rms symmetrical. Each vertical section must be priced to include 72 inches of vertical space units consisting of starters, feeders, transformers, panels, incoming terminal boards and/or enclosure spaces for future units.

<sup>1</sup>Typical diagrams can be found in the Application and Selection Guide for DET291 Section "L".





# Motor Control Centers—Low Voltage

## GE Motor Control Centers

### EVOLUTION SERIES E9000® Key Benefits

#### Safety:

- No Hot bus rework up to 600A
- Hi-Visible Trip Indication
- Door and unit interlocks
- UBC Seismic Zone 4 Standard
- Six Sigma Designed

#### Size:

- 6" reduction—Sz 3, 5
- 6" to 36" reduction VFD's
- 6" Size 1 FVNR
- 6" 150A Feeder
- 12" 250A Feeder
- 36" Size 5 Plug-In, two in a section
- 300VA CPT—No additional Space
- Plug In Buckets to Size 5
- Plug In Feeders to 600A

#### Simplicity:

- Easy Unit Insertion/Removal
- Snap-In Shelves
- Easily Quoted... Fastrac MCCs
- Manufacturing Flexibility

#### Scope:

- 450 Hp VFD's
- 500 Hp SSS
- 250A and 600A Stabs
- TVSS 65-200K Surge Current
- Automatic Transfer Switches to 1200A



# Motor Control Centers—Low Voltage

## GE Motor Control Centers

### Short/Mid Cycle Program

#### Features

The Evolution SC/MC is a pre-engineered, factory assembled, fully tested motor control center that contains all the standard features of the Evolution motor control center, including some options.

All sections and units will be UL labeled where possible. Refer to Company if labeling is critical.

**Please contact your distributor or GE for scope, pricing, and ordering.**

**No changes are allowed to Evolution SC/MC bill-of-material after order entry.**

#### Highlights of the Evolution SC/MC Program:

##### I Structure (20-inch wide is standard)

- 13- or 20-inch deep
- Back-to-back mounting (20-inch deep only)
- NEMA 1 gasket, 2, 12, 3R non-walk-in
- 24-inch wide enclosures
- Corner section enclosures
- Special enclosures
- Engraved nameplates (optional)
- Addition of “Field Installed Kits”

##### II Bus Systems

- Voltage: 208, 240, 480, 575 volts
- 3-phase, 3-wire, or 3-phase, 4-wire
- Main bus: 600, 800, 1000, 1200 ampere
- Vertical bus: 300, 450, 600 ampere, section-by-section
- Optional ground bus: 300, 375, 600 ampere
- Neutral bus: 300, 400, 600, 800, 1000 ampere
- Optional silver plating
- Back-to-back construction (rear vertical bus)
- “Vertical Bus Plugs” installed in unused stab openings

##### III Incoming Line

- 600 amperes with 18 inches of pull space
- Circuit breakers thru 1200 amperes
- Fusible switches thru 600 amperes

##### IV Feeders and Mains

- Feeders—800-ampere Spectra
- Feeders—600-ampere fused switch
- Main—1200-ampere Spectra
- Shunt trip and UV release

##### V Combination Starter Units

- Control Power Transformer (CPT) (optional)
- “Extra” auxiliary interlocks (optional)
- Line-to-line control
- Line-to-neutral control
- Separate control power or common CPT
- FVNR—Size 1 thru 6
- FVR—Size 1 thru 4
- RVNR—Size 2 thru 5
- 2S2W—Size 1 thru 4
- 2S1W—Size 1 thru 4
- NEMA Type 1B wiring
- Interlocks mounted on circuit breaker and fusible switch (optional)



# Motor Control Centers—Low Voltage Frequently Requested Motor Control Center Renewal Parts

EVOLUTION SERIES E9000®

## Renewal Parts

Part	Description	Product Number	List Price GO-11GM
O/L Reset Assembly	Size 1 Standard O/L	9000RSG1	\$87.00
	Size 1 Electronic O/L	9000RSG2	\$87.00
	Size 2.5 Standard O/L	9000RSG3	\$87.00
	Size 2.5 Electronic O/L	9000RSG4	\$87.00
	Size 3.4 Standard O/L	9000RSG5	\$87.00
	Size 3.4 Electronic O/L	9000RSG6	\$87.00
Door Hinges	Door Hinges	190B1013P1	\$9.00
Terminal Blocks	Power Pull Apart Terminal Block 50A	190B1691G1	\$84.00
	Terminal Block Din Rail Assembly 18 Points Max	190B2070G6	\$309.00
	Terminal Block Din Rail Assembly 18 Points Max w/ TB	190B2070G12	\$534.00
	Control TB 30A Male and Female	190B1692G1	\$45.00
Wireway Covers	Wireway Covers Top 12" with hinges	110C1440G1	\$170.00
	Wireway Covers Top 18" with hinges	110C1440G2	\$204.00
Control Power Transformers	CPT 150VA, 480/120 Size 1 and 2 w/o Fuse Block	9T58K0504G37	\$310.00 <sup>1</sup>
	CPT 300VA, 480/120 Size 1 and 2 With Fuse Block	9T58K0507G38	\$390.00 <sup>1</sup>
	CPT 100VA, 480/120 Size 1 1/2X, Size 5 W/O Fuse Block	MIC#B100-2989-5	\$240.00
Miscellaneous	Standard Shelf	110C1059P1	\$144.00
	Shelf Grounding Bracket	270A1343G1	\$18.00
	Bus Shutter Assembly	110C1783G1	\$346.00
	Vertical Bus Stab Covers	190B1215P1	\$9.00
	Wireway Knock Out Panel	190B1014P1	\$12.00
	Shelf Support - 72" High	110C1010G11	\$310.00
	Circuit Breaker/Starter Handles	E and F Frame CB Vertical Handle Only	190B1704G1
E and F Frame CB Horizontal Handle Only		190B1704G2	\$120.00
Filler Kits (Includes Shelf and Grounding Bracket)	6"	EK06	\$120.00 <sup>2</sup>
	12"	EK12	\$240.00 <sup>2</sup>
	18"	EK18	\$490.00
	24"	EK24	\$505.00
	30"	EK30	\$575.00
	36"	EK36	\$610.00
	42"	EK42	\$640.00
Rear Doors Only	48"	EK48	\$680.00
	Rear Cover Only	190B1007P9	\$114.00
	Rear Hinge Door Top Only	110C1466G9	\$132.00
	Rear Hinge Door Bottom Only	110C1466G21	\$132.00
	Rear Hinge Mounting Bracket (2 Per Section)	110C1464P1	\$14.00
Wire Trough Doors (4")	6" High	110C1163G1	\$260.00
	12" High	110C1163G2	\$332.80
	18" High	110C1163G3	\$353.60
	24" High	110C1163G4	\$374.40
	30" High	110C1163G5	\$396.00
	36" High	110C1163G6	\$416.00
	42" High	110C1163G7	\$426.40
	48" High	110C1163G8	\$426.40
	54" High	110C1163G9	\$457.60
	60" High	110C1163G10	\$478.40
Cooling Fans	66" High	110C1163G11	\$499.20
	72" High	110C1163G12	\$572.00
	Muffin Fan 120V Only	MUFFINFANG1	\$376.00
	Tarzan Fan Only	RMC#020169	\$1245.50
	Case Fan Assembly	110C1556G1	\$4012.00
Blank Unit Door	N3R Fan Assemblies	Refer to Factory	N/A
	6"	110C1240KKG1	\$166.00
	12"	110C1240KKG2	\$208.00
	18"	110C1240KKG3	\$240.00
	24"	110C1240KKG4	\$250.00
	30"	110C1240KKG5	\$312.00
	36"	110C1240KKG6	\$343.20
	42"	110C1240KKG7	\$374.40
Pilot Device Bracket	48"	110C1240KKG8	\$416.00
	6 Unit Device Plate Only	110C1039P100	\$30.00
	3 Unit Device Plate Only	110C1089P100	\$30.00
Splice Kits (Evolution to Evolution N1, N12 Only) (Standard Tin Only)	Bracket	190B1662P1	\$16.00
	600Amp Bus	110C1735G1SM	\$170.00
	800Amp Bus	110C1735G4SM	\$250.00
	1200Amp Bus	110C1735G7SM	\$280.00
	2000Amp Bus	110C1735G12SM	\$700.00
Optional Semiconductor Soft Start Fuses	2500Amp Bus	110C1735G13SM	\$1700.00
	50Amp	CSC#A50QS50	\$70.00
	60Amp	CSC#A50QS60	\$70.00
	80Amp	CSC#A50QS80	\$70.00
	100Amp	CSC#A50QS100	\$90.00
	200Amp	CSC#A50QS200	\$140.00
	225Amp	CSC#A50QS225	\$140.00
350Amp	CSC#A50QS350	\$150.00	

<sup>1</sup>GO-80

<sup>2</sup>GO-100EZ

## Motor Control Centers Parts Publications List

Model	Description	Number
EVOLUTION SERIES E9000®	Installation	GEH 40472



# Motor Control Centers—Low Voltage

## GE Fastrac Program—MCC Units Quick Selection Guide

CR8000

Spectra®

This Quick Selection Guide covers Control Center starters and feeders, including full and reduced voltage, reversing and non-reversing, two-speed single and dual winding starters, in sizes 1-5. For other units, see the Engineered Products Catalog, Section 10.

### Motor Control Starter Units

For each of the following steps, find the option—MCC type, starter type, size, disconnect, control power, pilot lights, etc.— that meets the need. Transfer the corresponding product number digit(s) to the product number box(les) and the price, if applicable, to the appropriate price box.

When you have finished, you will have built a complete product number and established the price elements that add up to the complete list price, GO-100MZ.

#### 1 Select Motor Control Center Type

Select motor control center type. Transfer the product number digits to the box marked 1 in the product number line. There is no price component to MCC type selection.

MCC Type	Product Number Digit
CR8000	M
Spectra®	S

#### 2 Select Starter Type and Size

Find the starter type required. Transfer the product number digits to the boxes marked 2 in the product number line and the price to the box marked 2 in the price line.

Starter Type	Size	Product Number Digits	Price
FVNR	1	A1	\$2000.00
	2	A2	\$2200.00
	3	A3	\$3800.00
	4	A4	\$5100.00
	5	A5	\$8400.00
FVR	1	B1	\$2900.00
	2	B2	\$3950.00
	3	B3	\$5750.00
	4	B4	\$7250.00
2S1W	1	C1	\$3750.00
	2	C2	\$5035.00
	3	C3	\$6970.00
	4	C4	\$8915.00
2S2W	1	D1	\$3300.00
	2	D2	\$4485.00
	3	D3	\$6220.00
	4	D4	\$7595.00
RVAT	3	E3	\$10545.00
	4	E4	\$12150.00
	5	E5	\$17960.00
RV Solid State	1	F1	\$11075.00
	2	F2	\$12700.00

#### All Fastrac units have the following as standard:

- A. NEMA 12 gasketing, except SS Starter and VFD's
- B. Isolated N.O. overload alarm contact (not wired to TB)
- C. Auxiliary. contacts wired to the TB as noted below:  
 FVNR and RVNR Starters—(1) N.O. (1) N.C.  
 FVR and 2S Starters—(1) N.O. per contactor

#### VFD Pricing

Size	Horsepower	VFD Price	Size	Horsepower	VFD Price
Size 1	1/2	\$13300.00	Size 1	7 1/2	\$19595.00
	3/4	\$13300.00		10	\$22505.00
	1	\$13300.00	Size 2	15	\$30560.00
	1 1/2	\$13625.00		20	\$35625.00
	2	\$13625.00		25	\$41515.00
Size 1	3	\$14095.00	Size 3	30	\$47965.00
	5	\$15930.00			



# Motor Control Centers—Low Voltage

## GE Fastrac Program—MCC Units Quick Selection Guide

CR8000

Spectra®

### 3 Select Starter Disconnect

Use the first table to identify desired disconnect device. (Note that these are for basic applications; see publication GET-6728 for CR8000/Spectra® for more information.) Then, from the second table select starter disconnect. Transfer the product number digit to the box marked 3 in the product number line and the price to the box marked 3 in the price line.

Starter Size	Mag Only Circuit Breaker	Thermal Mag Circuit Breaker	Short Circuit Rating		
			230V	460V	575V
1, 2, 3	TEC	THED	25	25	22
	Spectra® - 65k	Spectra® - 65k	65	65	25
	Spectra® -100k	Spectra® - 100k	100	100	—
4	TECL	THEDL	—	—	100
	TEC	THFK	25	25	18
	Spectra® - 65k	Spectra® - 65k	65	65	25
5	Spectra® - 100k	Spectra® - 100k	100	100	—
	Spectra® - 65K	Spectra® - 65K	65	65	65
	Spectra® - 100K	Spectra® - 100K	100	100	100

Disconnect Device	Product Number Digit	Price by Starter Size				
		1	2	3	4	5
THED	B	\$235.00	\$310.00	\$150.00	—	—
TECL	C	\$1045.00	\$1155.00	\$1185.00	\$1225.00	—
FSW-R	F	\$125.00	\$175.00	\$575.00	\$1075.00	\$2115.00
THFK	G	—	—	—	\$850.00	—
TEC	M	\$345.00	\$405.00	\$235.00	\$160.00	—
FSW-J <sup>2</sup>	R	\$125.00	\$175.00	\$575.00	\$1075.00	\$2115.00
THEDL	S	\$1045.00	\$1155.00	\$1185.00	—	—
Spectra® - 65 Mag Only <sup>1</sup>	U	\$770.00	\$850.00	\$730.00	\$780.00	\$840.00
Spectra® - 100 Mag Only	V	\$1045.00	\$1155.00	\$1185.00	\$1225.00	\$1300.00
Spectra® - 65 Thermal Mag <sup>1</sup>	W	\$770.00	\$850.00	\$730.00	\$780.00	\$855.00
Spectra® - 100 Thermal Mag	X	\$1045.00	\$1155.00	\$1185.00	\$1225.00	\$1350.00

<sup>1</sup> 25KAIC @ 575V.

<sup>2</sup> J time delay.

### 4 Select Control Power

Standard control power transformer (CPT) ratings are adequate to handle the starter-coil current and three pilot lights. If additional burdens are expected, larger transformers should be specified from among those shown in the first table below. From the second table below, select the control power desired. Transfer the product number digit to the box marked 4 in the product number line and the price to the box marked 4 in the price line. **Product number digit 1 is for 100VA CPT.**

Starter Type and Size	CPT Std. VA	Oversize VA
All Size 1	60	150
All Size 2	150	—
All Size 3	300	—
All Size 4	300	—
All Size 5	100	—

Control Power (120 Vac)	Product Number Digit	Price by Starter Size				
		1	2	3	4	5
Std. CPT	1	\$370.00	\$390.00	\$415.00	\$430.00	\$585.00
Oversize	2	\$390.00	—	—	—	—
Line-to-Line	4	\$145.00	\$145.00	\$145.00	\$145.00	\$145.00
Common/ Separate Source	5	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00



# Motor Control Centers—Low Voltage GE Fastrac Program—MCC Units Quick Selection Guide

CR8000

Spectra®

## 5 Select Pilot Devices

Select pilot devices desired by starter type. See **Pilot Devices table below**. Transfer the product number digits to the boxes marked 5 in the product number line and the price to the box marked 5 in the price line.

Starter Type	Pilot Device	Product Number Digits	Price
FVNR & RVAT & RVSS	NONE	NN*	\$0.00
	RED LGT STD	AE*	\$155.00
	RED LGT PUSH-TO-TEST (PTT)	AF	\$250.00
	RED/GREEN LGT STD	AS*	\$310.00
	RED/GREEN LGT PTT	AT	\$500.00
	HAND/OFF/AUTO (H/O/A) SW.	AN*	\$175.00
	H/O/A SW. RED LGT STD	AB*	\$330.00
	H/O/A SW. RED LGT PTT	AP	\$425.00
	H/O/A SW. R/G LGT STD	AC*	\$485.00
	H/O/A SW. R/G LGT PTT	AQ	\$675.00
	H/O/A STOP/START RED LGT STD	AD	\$475.00
	H/O/A STOP/START RED LGT PTT	AR	\$570.00
	STOP/START PB	BN*	\$145.00
	STOP/START PB RED LGT STD	BB*	\$300.00
	STOP/START PB RED LGT PTT	BP	\$395.00
	STOP/START PB R/G LGT STD	BC	\$455.00
	STOP/START PB R/G LGT PTT	BQ	\$645.00
	OFF/ON SW.	GN*	\$120.00
	OFF/ON SW. RED LGT STD	GB*	\$275.00
	OFF/ON SW. RED LGT PTT	GP	\$370.00
OFF/ON SW. R/G LGT STD	GC*	\$430.00	
OFF/ON SW. R/G LGT PTT	GQ	\$620.00	
FVR	NONE	NN	\$0.00
	RED/GREEN LGT STD	CE	\$310.00
	RED/GREEN LGT PTT	CR	\$500.00
	RED/AMBER LGT STD	CF	\$310.00
	RED/AMBER LGT PTT	CS	\$500.00
	R/A/G LGT STD	CG	\$465.00
	R/A/G LGT PTT	CT	\$750.00
	FWD/REV/STOP PB	CN	\$215.00
	FWD/REV/STOP PB R/A LGT STD	CB	\$525.00
	FWD/REV/STOP PB R/A LGT PTT	CP	\$715.00
	FWD/REV/STOP PB R/G/A LGT STD	CC	\$680.00
	FWD/REV/STOP PB R/G/A LGT PTT	CQ	\$965.00
	FWD/OFF/REV SW	DN	\$175.00
	FWD/OFF/REV SW RED LGT STD	DB	\$33.00
	FWD/OFF/REV SW RED LGT PTT	DP	\$425.00
FWD/OFF/REV SW R/G LGT STD	DC	\$485.00	
FWD/OFF/REV SW R/G LGT PTT	DQ	\$675.00	
2S1W & 2S2W	NONE	NN	\$0.00
	RED/AMBER LGT STD	EF	\$310.00
	RED/AMBER LGT PTT	ES	\$500.00
	R/A/G LGT STD	EG	\$465.00
	R/A/G LGT PTT	ET	\$750.00
	FAST/SLOW/STOP PB	EN	\$215.00
	FAST/SLOW/STOP PB R/A LGT STD	EB	\$525.00
	FAST/SLOW/STOP PB R/A LGT PTT	EP	\$715.00
	FAST/SLOW/STOP R/A/G LGT STD	EC	\$680.00
	FAST/SLOW/STOP R/A/G LGT PTT	EQ	\$965.00
	FAST/SLOW/OFF/AUTO (F/S/O/A) SW	FN	\$225.00
	F/S/O/A SW R/A LGT STD	FB	\$535.00
	F/S/O/A SW R/A LGT PTT	FP	\$725.00
	F/S/O/A SW R/A/G LGT STD	FC	\$690.00
	F/S/O/A SW R/A/G LGT PTT	FQ	\$975.00

## 5 Select Pilot Devices (continued)

Starter Type	Pilot Device	Product Number Digits	Price
Variable Speed Drive	Key Pad	VP	NC
	Key Pad & Speed Adj. Pot	VQ	\$75.00
	Key Pad & HOA	VR	\$1005.00
	Key Pad & Speed Adj. Pot & HOA	VS	\$1080.00
	Key Pad & HOA & Red/Green PL	VT	\$1315.00
	Key Pad & Speed Adj. Pot & Red/Green PL	VU	\$385.00
	Key Pad & Speed Adj. Pot & HOA & Red/Green PL	VW	\$1390.00

## 6 Select Overload Relay

Select overload relay type. Transfer the product number digits to the box marked 6 in the product number line and the price to the box marked 6 in the price line.

Relay Type	Product Number Digit	Price
Standard	1	\$120.00
Ambient Compensated	2	\$155.00
Solid State	3	\$415.00

## 7 Select Control Terminal Board

Select control disconnect terminal board. Transfer the product number digits to the box marked 7 in the product number line. There is no price component to control terminal board selection.

Control Disconnect Terminal Board	Product Number Digit
Standard High-Density	H
Split 3-point w/o Disconnect	N

## 8 Select Horsepower

Select horsepower. Transfer the product number digits to the boxes marked 8 in the product number line. **Note** that some product number digits consist of a decimal point. There is no price component to horsepower selection.

Horsepower	Product Number Digits	Horsepower	Product Number Digits
1/4	.25	15	015
1/3	.33	20	020
3/8	.38	25	025
1/2	.50	30	030
3/4	.75	40	040
1	001	50	050
1 1/2	1.5	60	060
2	002	75	075
3	003	100	100
5	005	125	125
7 1/2	7.5	150	150
10	010	200	200



# Motor Control Centers—Low Voltage

## GE Fastrac Program—MCC Units Quick Selection Guide

CR8000  
Spectra®

### 9 Select System Voltage

Select system voltage. Transfer the product number digit to the box marked 9 in the product number line. There is no price component to system voltage selection.

Voltage	Product Number Digit
480V 60 Hz	A
208V 60 Hz	B
240V 60 Hz	C
575V 60 Hz	D
380V 50 Hz	E

### 10 OEM Fastrac Units

Fastrac units designed for OEM use are engineered and built with the same components and layout as the standard Fastrac units. Power wiring is provided; however, to allow the maximum flexibility for OEM users, no control wiring is provided. Product numbers are the same as the standard Fastrac units with the addition of two additional suffix letters, XX.

**Example:**

Standard Fastrac Unit	MA1U1AB1H010A
OEM Fastrac Unit	MA1U1AB1H010AXX

Starter Product Number	1	2	3	4	5	6	7	8	9	10									
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>								
List Price	\$ 0	+	\$ <input type="text"/>	+	\$ <input type="text"/>	+	\$ <input type="text"/>	+	\$ <input type="text"/>	+	\$ 0	+	\$ 0	+	\$ 0	+	\$ 0	=	\$ <input type="text"/>



# Motor Control Centers—Low Voltage GE Fastrac Program—MCC Units Quick Selection Guide

CR8000

Spectra®

## Motor Control Feeder Units

For each of the following steps, find the option—MCC type, disconnect type, amp rating, feeder devices—that meets the need.

Transfer the corresponding product number digits to the product number boxes for either the standard or OEM extended feeder unit. When you have finished, you will have built a complete product number. There are no price components to the first three steps; the complete list price, GO-100MZ, is that shown in the Step 4 table.

### 1 Select Motor Control Center Type

Select motor control center type. Transfer the product number digit to the box marked 1 in the product number line. There is no price component to MCC type selection.

MCC Type	Product Number Digit
CR8000	M
Spectra®	S

### 2 Select Feeder Disconnect Type

Select disconnect type. Transfer the product number digits to the boxes marked 2 in the product number line. There is no price component for disconnect type selection.

Type	Voltage	Product Number Digits
Circuit Breaker	—	FB
Fusible Switch-R	208/240V	FR
Fusible Switch-R	480/600V	FS
Fusible Switch-J	480/600V	FJ

### 3 Select Amp Rating

Select amp rating for either circuit breaker trip or Class R fuse. Transfer the product number digits to the boxes marked 3 in the product number line. There is no price component for amp rating selection.

Amps	Product Number Digits	Amps	Product Number Digits
15	015	110	110
20	020	125	125
30	030	150	150
40	040	175	175
50	050	200	200
60	060	225	225
70	070	250	250
80	080	400	400
90	090	600	600
100	100	—	—

### 4 Select Feeder Device

Select feeder device from one of the following two tables. Transfer the product number digits to the boxes marked 4 in the product number line for either the standard or OEM extended feeder unit. The price shown is the total list price, GO-100MZ, for your feeder unit.

#### Standard Feeder Units

Device	Amp Rating (Max.)	Short Circuit Rating KA Volts			Unit Height (Inches)	Product Number Digits	List Price GO100-MZ	
		240	480	600				
THED <sup>1</sup>	100	30	25	18	6	HED6	\$1400.00	
THEDL	100	100	100	100	6	EDL6	\$2900.00	
THED	100	30	25	18	12	HED1	\$1700.00	
	150	30	25	18	12	THED	\$1900.00	
SELT <sup>2</sup>	100	65	65	25	6	SEL6	\$2650.00	
	100	65	65	25	12	SEL2	\$2950.00	
SEPT <sup>2</sup>	100	100	100	N/A	6	SEP6	\$2900.00	
	100	100	100	N/A	12	SEP2	\$3200.00	
SFLT <sup>3</sup>	250	65	65	25	12	SFLT	\$7550.00	
SFPT <sup>3</sup>	250	100	100	N/A	12	SFPT	\$8300.00	
THFK <sup>4</sup>	225	30	25	18	12	THFK	\$2500.00	
		30	100	100	100	6	QM36	\$1200.00
FSW	200	30	100	100	100	12	QMR3	\$1500.00
		60	100	100	100	6	QM66	\$1300.00
		60	100	100	100	12	QMR6	\$1600.00
		100	100	100	N/A	12	QMR1	\$1900.00
		200	100	100	100	24	QMR2	\$3100.00

<sup>1</sup>60 & 80 Amp Trip not available on THED.

<sup>2</sup>150A unit is 18" high.

<sup>3</sup>Max. trip is 225A and unit is 18" high.

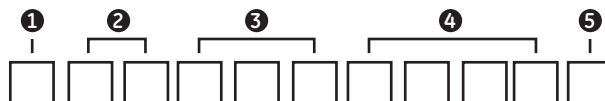
<sup>4</sup>CR8000 only.

### 5 Select System Voltage

Select system voltage. Transfer the product number digit to the box marked 5 in the product number line. There is no price component to system voltage selection.

Voltage	Product Number Digit
480V 60 Hz	A
208V 60 Hz	B
240V 60 Hz	C
575V 60 Hz	D
380V 50 Hz	E

#### Standard Feeder Unit Product Number





# Motor Control Centers—Low Voltage Frequently Requested Motor Control Center Renewal Parts

7700-Line, 8000-Line and Spectra® Series

## Renewal Parts

Parts	Description	MCC Type			Product Number	List Price GO-11GM
		7700	8000	Spectra		
Vertical Bus Parts	Shelf-Standard	X	X	X	68J210383BBXXXXXX	\$144.00
	Shelf Support	X	X	X	117B5044P2	\$18.00
	Bus Shutter Assembly	X	X	X	204B4153BVG1	\$228.00
Cooling Fans	Door Latch	X	X	X	169C6386DMG2	\$12.00
	Muffin Fan	X	X	X	272A5509SDP1	\$376.00
	Tarzan Fan	X	X	X	RMC#020169	\$640.00
Wireway Covers	6" x 20"	X	X	X	204B4127G19	\$160.00
	12" x 20"	X	X	X	204B4127G20	\$200.00
	18" x 20"	X	X	X	204B4127G21	\$240.00
O/L Reset Assy	Size 1 All		X	X	204B4142BDG1	\$58.00
	Size 1 All	X			116C8961G1	\$58.00
	Size 2 All	X			116C8961G2	\$58.00
	Size 2 FVNR		X	X	204B4142BDG2	\$58.00
	Size 2 FVR - 2 Speed		X	X	204B4142BDG3	\$58.00
	Size 3 & 4 All	X			116C8961G3 <sup>2</sup>	\$58.00
	Size 3 & 4 FVNR-FVR-2 Speed		X	X	204B4142BDG4 <sup>2</sup>	\$58.00
	Size 3 & 4 RVNR		X	X	204B4142BDG5 <sup>2</sup>	\$58.00
	Size 5 All	X			116C8961G5	\$58.00
	Size 5 All		X	X	204B4142BDG6	\$58.00
Control Power Transformer	60VA (With Fuse Block)	X	X	X	302A3600YDP201	\$380.00
	150VA (With Fuse Block)	X	X	X	302A3600YDP204	\$620.00
	300VA (With Fuse Block)	X	X	X	302A3600YDP207	\$786.00
	300VA (No Fuse Block)	X	X	X	302A3600YDP7	\$774.00
Standard TB	Male - 3 Point	X	X		75B132504G701	\$56.00
	Female - 3 Point	X	X		204B4153APG1	\$48.00
	Male - 3 Point	X	X		75B132504G701	\$56.00
Power TB	Female - Size 1 & 2 - 3 Point (w/lugs)	X	X		204B4153APG2	\$56.00
	Size 3 - 3 Point	X	X		204B4050WDG5	\$380.00
	Size 4 - 3 Point	X	X		204B4050WDG1	\$440.00
High Density TB	6 Point-Control		X	X	CR151KPP56F	\$46.00
	6" High	X			273A7764G6 <sup>1</sup>	\$744.00
	12" High	X			273A7764G12 <sup>1</sup>	\$800.00
	18" High	X			273A7764G18 <sup>1</sup>	\$872.00
	24" High	X			273A7764G24 <sup>1</sup>	\$952.00
	30" High	X			273A7764G30 <sup>1</sup>	\$1032.00
	36" High	X			273A7764G36 <sup>1</sup>	\$560.00
Filler Kit - 7700 Line	42" High	X			273A7764G42 <sup>1</sup>	\$600.00
	48" High	X			273A7764G48 <sup>1</sup>	\$640.00
	6" High		X		204B4145AMG1 <sup>1</sup>	\$336.00
	12" High		X		204B4145AMG2 <sup>1</sup>	\$384.00
	18" High		X		204B4145AMG3 <sup>1</sup>	\$392.00
	24" High		X		204B4145AMG4 <sup>1</sup>	\$404.00
	30" High		X		204B4145AMG5 <sup>1</sup>	\$460.00
	36" High		X		204B4145AMG6 <sup>1</sup>	\$488.00
	42" High		X		204B4145AMG7 <sup>1</sup>	\$512.00
	48" High		X		204B4145AMG8 <sup>1</sup>	\$544.00
Filler Kit - 8000 Line	6" High			X	68J210397DAXX06XXB	\$256.00
	12" High			X	68J210397DAXX12XXB	\$320.00
	18" High			X	68J210397DAXX18XXB	\$184.00
	24" High			X	68J210397DAXX24XXB	\$192.00
	30" High			X	68J210397DAXX30XXB	\$480.00
	36" High			X	68J210397DAXX36XXB	\$264.00
	42" High			X	68J210397DAXX42XXB	\$288.00
	48" High			X	68J210397DAXX48XXB	\$320.00
	6" High			X	272A5650BVP9	\$40.00
	12" High			X	272A5650BVP10	\$22.00
Spectra® Fill Strip	18" High			X	272A5650BVP11	\$24.00
	24" High			X	272A5650BVP12	\$28.00
	30" High			X	272A5650BVP13	\$36.00
	36" High			X	272A5650BVP14	\$44.00
	42" High			X	272A5650BVP15	\$52.00
	48" High			X	272A5650BVP16	\$64.00
	Left	X	X		117B5027P2	\$6.00
Door Hinges	Right	X	X		117B5027P3	\$6.00
	Spectra Hinge			X	204B4145FP1	\$12.00
	Spectra Hinge Pin			X	273A7728TLP1	\$4.00
Rear Doors	20" Wide	X	X	X	68J210375DB2090XXB	\$288.00
	24" Wide	X	X	X	68J210375DB2490XXB	\$368.00
	20" Wide	X	X	X	68J120323LE0102AAB <sup>3</sup>	\$520.00
Rear Covers	24" Wide	X	X	X	68J120323XA0102AAB <sup>3</sup>	\$552.00

<sup>1</sup>Includes blank door, shelf, shelf support and hinged filler strip.

<sup>2</sup>O/L types. Refer to factory

<sup>3</sup>Flat covers for 13" MCC



# Motor Control Centers—Low Voltage Frequently Requested Motor Control Center Renewal Parts

7700-Line, 8000-Line and Spectra® Series

## Renewal Parts (continued)

Parts	Description	MCC Type			Product Number	List Price GO-11GM
		7700	8000	Spectra		
	6" High	X	X		68J210375CB2006XXB <sup>4</sup>	\$200.00
	12" High	X	X		68J210375CB2012XXB <sup>4</sup>	\$256.00
	24" High	X	X		68J210375CB2024XXB <sup>4</sup>	\$288.00
	30" High	X	X		68J210375CB2030XXB <sup>4</sup>	\$304.00
	36" High	X	X		68J210375CB2036XXB <sup>4</sup>	\$320.00
	42" High	X	X		68J210375CB2042XXB <sup>4</sup>	\$328.00
	48" High	X	X		68J210375CB2048XXB <sup>4</sup>	\$336.00
	54" High	X	X		68J210375CB2054XXB <sup>4</sup>	\$352.00
	60" High	X	X		68J210375CB2060XXB <sup>4</sup>	\$368.00
	66" High	X	X		68J210375CB2066XXB <sup>4</sup>	\$384.00
	72" High	X	X		68J210375CB2072XXB <sup>4</sup>	\$440.00
	18" High		X		68J210375SCB2018XXB <sup>4</sup>	\$272.00
Wire Trough Doors	6" High			X	68J210397AC2006XXB <sup>4</sup>	\$200.00
	12" High			X	68J210397AC2012XXB <sup>4</sup>	\$256.00
	18" High			X	68J210397AC2018XXB <sup>4</sup>	\$272.00
	24" High			X	68J210397AC2024XXB <sup>4</sup>	\$288.00
	30" High			X	68J210397AC2030XXB <sup>4</sup>	\$304.00
	36" High			X	68J210397AC2036XXB <sup>4</sup>	\$320.00
	42" High			X	68J210397AC2042XXB <sup>4</sup>	\$328.00
	48" High			X	68J210397AC2048XXB <sup>4</sup>	\$336.00
	54" High			X	68J210397AC2054XXB <sup>4</sup>	\$352.00
	60" High			X	68J210397AC2060XXB <sup>4</sup>	\$368.00
	66" High			X	68J210397AC2066XXB <sup>4</sup>	\$384.00
	72" High			X	68J210397AC2072XXB <sup>4</sup>	\$440.00
	40 Amp		Other		CSC#A50P40	\$156.00
	60 Amp		Other		CSC#A50P60	\$102.00
	100 Amp		Other		CSC#A50P100	\$156.00
	175 Amp		Other		CSC#A50P175	\$156.00
	200 Amp		Other		CSC#A50P200	\$164.00
	300 Amp		Other		CSC#A50P300	\$240.00
	1000 Amp		Other		CSC#A50P1000	\$384.00
	1200 Amp		Other		CSC#A50P1200	\$384.00
	1600 Amp		Other		CSC#A50P1600	\$404.00
	60 Amp		Other		CSC#A50QS60	\$46.00
	100 Amp		Other		CSC#A50QS100	\$46.00
	150 Amp		Other		CSC#A50QS150	\$72.00
	175 Amp		Other		CSC#A50QS175	\$72.00
	225 Amp		Other		CSC#A50QS225	\$90.00
	250 Amp		Other		CSC#A50QS250	\$90.00
	300 Amp		Other		CSC#A50QS300	\$96.00
	350 Amp		Other		CSC#A50QS350	\$100.00
	600 Amp		Other		CSC#A50QS600	\$120.00
	Single		Other		ACT#4380-2000	\$2420.00
	Double		Other		ACT#4390	\$3300.00
	General		Other		Refer to Factory	
	CR7		Other		Refer to Factory	
	ITI		Other		Refer to Factory	
	MCRA		Other		Refer to Factory	

<sup>4</sup>Product Numbers shown are for 7700 and 8000 line – 20" wide sections. If wider than 20" substitute section width into product number eg/24"W x 6"H use #68J210375CB2406XXB.

## Motor Control Center Parts Publications List

Model	Description	Number
7700 Line	Shelf-Standard	GEH 2614
	Renewal Parts	GEH 4629
8800 Line	Installation	GEH 4961
	Renewal Parts	GEH 4630



# Motor Control Centers—Low Voltage Frequently Requested Motor Control Center Renewal Parts

7700-Line, 8000-Line and Spectra® Series

## Buckets and Associated Parts – Individual Parts

Bucket Type	Individual Part Type	NEMA Size	Height (in.)	MCC Type	Product Number	List Price GO-11GM	
Fused Switch	Disconnect	1	12"	Other	204B4054G10	\$1800.00	
		2	12"	Other	204B4054G26	\$2040.00	
		3	30"	Other	204B4054G62	\$2360.00	
	N/A	4	42"	Other	204B4056G15	\$4112.00	
		1	12"	Other	8000L8G2	\$120.00	
	Stab Harness	2	12"	Other	8000L8G8	\$120.00	
		4	30"	Spectra	8000L4G47	\$450.00	
	Stab Harness	3	24"	Spectra	8000L4G48	\$454.00	
		N/A	N/A	Spectra	8000L8G21	\$120.00	
	Spectra® Circuit Breaker	Starter	1	12"	Spectra	CR306C002ACET	\$1080.00
N/A			N/A	Spectra	CR306D002LVH	\$1480.00	
3			24"	Spectra	CR306E002LVH	\$1774.00	
4			30"	Spectra	CR306F002LVH	\$3996.00	
CPT Fuse Primary		1	12"	Spectra	CSC#ATMR1/2	\$22.00	
		2	12"	Spectra	CSC#ATMR1	\$22.00	
		4	30"	Spectra	CSC#ATMR2	\$22.00	
CPT Fuse Secondary		2	12"	Spectra	CSC#TR1-6/10R	\$32.00	
		4	30"	Spectra	CSC#TR3-2/10R	\$32.00	
Disconnect		1	1	12"	Spectra	CSC#TR6/10R	\$32.00
			2	12"	Spectra	SELA36AI0007	\$530.00 <sup>1</sup>
			3	12"	Spectra	SELA36AI0030	\$530.00 <sup>1</sup>
		2	3	24"	Spectra	SELA36AI0100	\$754.00 <sup>1</sup>
			4	30"	Spectra	SFLA36AI0250	\$1297.00 <sup>1</sup>
		3	3	24"	Spectra	SRPE100A70	\$106.00 <sup>2</sup>
	2		12"	Spectra	SRPE30A25	\$106.00 <sup>2</sup>	
	Rating Plug	1	12"	Spectra	SRPE7A3	\$106.00 <sup>2</sup>	
		4	30"	Spectra	SRPF250A150	\$106.00 <sup>2</sup>	

<sup>1</sup>GO-141S

<sup>2</sup>GO-135S

## Buckets and Associated Parts – Complete Bucket

Bucket Type	NEMA Size	Horsepower	Height (in.)	MCC Type	Product Number	List Price GO-100MZ
Fused Switch	1	1/4	12"	Other	MA1F1AB2J.25A	\$2980.00
		1/3	12"	Other	MA1F1AB2J.33A	\$2980.00
		3/8	12"	Other	MA1F1AB2J.38A	\$2980.00
		1/2	12"	Other	MA1F1AB2J.50A	\$2980.00
		3/4	12"	Other	MA1F1AB2J.75A	\$2980.00
		1	12"	Other	MA1F1AB2J001A	\$2980.00
		2	12"	Other	MA1F1AB2J002A	\$2980.00
		3	12"	Other	MA1F1AB2J003A	\$2980.00
		5	12"	Other	MA1F1AB2J005A	\$2980.00
		10	12"	Other	MA1F1AB2J010A	\$2980.00
	2	1 1/2	12"	Other	MA1F1AB2J1.5A	\$2980.00
		7 1/2	12"	Other	MA1F1AB2J7.5A	\$2980.00
		15	12"	Other	MA2F1AB2J015A	\$3250.00
		20	12"	Other	MA2F1AB2J020A	\$3250.00
		25	12"	Other	MA2F1AB2J025A	\$3250.00
		30	30"	Other	MA3F1AB2J030A	\$5310.00
		40	30"	Other	MA3F1AB2J040A	\$5310.00
		50	30"	Other	MA3F1AB2J050A	\$5310.00
		60	42"	Other	MA4F1AB2J060A	\$7110.00
		75	42"	Other	MA4F1AB2J075A	\$7110.00
Spectra® Circuit Breaker	1	100	42"	Other	MA4F1AB2J100A	\$7110.00
		1/4	12"	Spectra	MA1U1AB2J.25A	\$3625.00
		1/3	12"	Spectra	MA1U1AB2J.33A	\$3625.00
		3/8	12"	Spectra	MA1U1AB2J.38A	\$3625.00
		1/2	12"	Spectra	MA1U1AB2J.50A	\$3625.00
		3/4	12"	Spectra	MA1U1AB2J.75A	\$3625.00
		1	12"	Spectra	MA1U1AB2J001A	\$3625.00
		2	12"	Spectra	MA1U1AB2J002A	\$3625.00
		3	12"	Spectra	MA1U1AB2J003A	\$3625.00
		5	12"	Spectra	MA1U1AB2J005A	\$3625.00
	2	10	12"	Spectra	MA1U1AB2J010A	\$3625.00
		1 1/2	12"	Spectra	MA1U1AB2J1.5A	\$3625.00
		7 1/2	12"	Spectra	MA1U1AB2J7.5A	\$3625.00
		15	12"	Spectra	MA2U1AB2J015A	\$3935.00
		20	12"	Spectra	MA2U1AB2J020A	\$3935.00
		25	12"	Spectra	MA2U1AB2J025A	\$3935.00
		30	24"	Spectra	MA3U1AB2J030A	\$5465.00
		40	24"	Spectra	MA3U1AB2J040A	\$5465.00
		50	24"	Spectra	MA3U1AB2J050A	\$5465.00
		60	30"	Spectra	MA4U1AB2J060A	\$6815.00
4	75	30"	Spectra	MA4U1AB2J075A	\$6815.00	
	100	30"	Spectra	MA4U1AB2J100A	\$6815.00	



# Motor Control Centers—Medium Voltage Limitamp

2400-7200 Volts

The GE Limitamp motor control center provides an economical means of centralizing motor starters and related control equipment. It permits motor control starters, feeders, isolator switches, distribution transformers, interlocking relays, programmable control, metering and other miscellaneous devices to be obtained in a single floor-mounted structural assembly fed from a common enclosed main bus.

Limitamp motor control centers are constructed of standardized heavy gauge vertical sections housing vertical and horizontal buses and compartmented starters. Sections are bolted together to form a single line-up assembly. The entire center may be powered by incoming line connection at a single point. When requested and possible, Limitamp motor control centers bear UL section and unit labels.

Limitamp Control is designed to meet NEMA ICS 3, Part 2 and UL 347 requirements. Various enclosure types and constructions are available and there is a broad selection of modifications for complete control and protection of motors used on modern power-utilization systems with high available short-circuit currents.

**This program is limited and restricted. Please contact your distributor or GE for scope, pricing, and ordering.**

## Product Features

- Visible blade disconnect switch
- Proven, high reliability vacuum contactors (2 million operations)
- Quick-make / quick-break disconnect switch
- Modular, flexible enclosure construction
- Extensive protective relays from GE Multilin®
- Epoxy insulated bus available
- Drawout and stationary contactors
- 1 high and 2 high arrangements
- UL / cUL available on most units
- Large isolated low voltage compartment
- No rear access required
- Matching line-up with all existing Limitamp installed equipment

## Starter Types

- FVNR Full voltage non-reversing (induction and synchronous)
- RVAT Reduced voltage autotransformer
- RVPR Reduced voltage primary reactor
- FVR Full voltage reversing
- 2S1W Two-speed, one winding
- 2S2W Two-speed, two winding
- MVSS Medium voltage solid state
- Feeders Transformer feeders

## Construction Options

- Main bus: 1200A, 2000A, 3600A
- System voltages: 2400V, 3300V, 3600V, 4160V, 4800V, 6600V, 7200V
- Contactor sizes: 400A, 800A
- Enclosure types: NEMA 1, 1A, 2, 3R, 12
- Bus bracing: 50 KA symmetrical



## Limitamp Medium Voltage Motor Control

### Product References:

Engineered Products Catalog	Section 11
Application and Selection Guide	GET-6840



# Motor Control Centers—Medium Voltage Limitamp

2400-7200 Volts

## Key Product Specifications

### Main AC Horizontal Bus Ratings

- 1200A, 2000A (1950A non-ventilated), or 3600A (2800 non-vented)
- 50 kA rms sym short circuit
- Tin or silver plating available
- Epoxy insulation available
- Matching line-up with all existing Limitamps (including Air Break)

### Typical Current Ratings (amps) 2 HI only

- Vented: 360 top/400 bottom
- Non-vented: 320 top/320 bottom

### Interrupting Ratings

Class E1 mVA	25 at 2.5kV	
	50 at 5.0kV	
	75 at 7.2kV	
Class E2 mVA	2400 volts	200
	3600 volts	300
	4160 volts	350
	4800 volts	400
	7200 volts	600

### Contactors Ratings—CR193B and CR193D (400A)

Short-time current (amps)	
30 seconds	2400
1 second	6000
Impulse withstand (kV)	60
Dielectric strength (kV) 1 minute	18.2
Switching frequency (ops/hour)	360
Mechanical life (ops)	2,000,000
Electrical life (ops)	1,000,000
Closing time (max. ms)	350
Opening time (max. ms)	
switched at coil	50
Pick-up voltage (% of rated)	85% max.
Drop out voltage (% of rated)	10%-65%
Control voltage (volts) requires	
rectification	110/115 AC
Control circuit burden (VA)	
Closing	175
Hold-in	30
Contactors weight	75 lbs. (35 kg)
Standards applicable	UL 347
	NEMA ICS 3, Part 2
	cUL

## Publication References for Limitamp Equipment

Publication	Description	Stocking Location
<b>CR194 Vacuum Design</b>		
DEA-328	Medium Voltage Soft Starters	Bloomington <sup>1</sup>
GEH-6263	2-high Maintenance Instructions	Bloomington <sup>1</sup>
GEH-5305	1-high Maintenance Instructions	Bloomington <sup>1</sup>
GET-6840	Selection & Application	Bloomington <sup>1</sup>
DET-064	Advertising Brochure	Bloomington <sup>1</sup>
GEH-5396	800 Amp 1-high Maintenance	Bloomington <sup>1</sup>
GEF-8016	Contactors Renewal Parts	Mebane
GEH-5306	Contactors Maintenance Instructions	Bloomington <sup>1</sup>
<b>Fuses/Curves</b>		
GES-5000	Power Fuse Curves	Bloomington <sup>1</sup>
<b>General Purpose Controls</b>		
GEP-1260	Control Catalog—Covers Full Line of Products	Bloomington <sup>1</sup>
<b>Pilot Devices</b>		
GEA-10877	CR104P Push Buttons and Pilot Lights	Bloomington <sup>1</sup>
<b>Relays and Timers</b>		
GEH-4115	CR120B AC Relays	Bloomington <sup>1</sup>
GEH-4120	CR120B Latched Relays	Bloomington <sup>1</sup>
GEH-6248	CR4 Control and Timing Relay	Bloomington <sup>1</sup>
GEH-5475	C-2000 Mini-Contactors Control Relays	Bloomington <sup>1</sup>
1601-0057	Multilin 469	GE Multilin®
1601-0077	Multilin 369	GE Multilin®
1601-0025	Multilin 269	GE Multilin®
1601-0013	Multilin 269+	GE Multilin®
1601-0060	Multilin 239+	GE Multilin®
<b>Metering</b>		
GEH-6302	Power Leader® EPM, User's Guide	Bloomington <sup>1</sup>
GEH-5892	Power Leader®, User's Guide	Bloomington <sup>1</sup>

<sup>1</sup>Ordering address on BuyLog® page 22-1.



# Motor Control Centers—Medium Voltage Limitamp

2400-7200 Volts

## Limitamp Product Scope

Product/ Application	Max. Fault Rating	Max. Current Rating (Amps)	Main Bus Rating <sup>1</sup>	Enclosure Size <sup>2</sup>	Power Fuse Types	Overload Relays <sup>3</sup>	Potential Transformers
One High CR194 400A <sup>5</sup> Vacuum Stationary Control (FVNR) (induction motor or transformer loads)	50 kA rms sym. <sup>11</sup> 4.80 kV (fused)	360A vented 320A non-vented	1200A 2000A 3600A <sup>12</sup> (2800A non-vented)	1-high 26W x 90H x 30D (34W optional)	GE Type RB Bolted or Clip	CR324C Multilin 269+ <sup>10</sup>	N/A
Two High CR194 400A <sup>5</sup> Vacuum Stationary or Drawout (FVNR)	50 kA rms sym. <sup>11</sup> 7.2 kV (fused)	TOP: 360A vented 320A non-vented BOTTOM: 400A vented 320A non-vented	1200A <sup>8</sup> 2000A (1950A non-vented) 3600A <sup>12</sup> (2800A non-vented)	2-high 36W x 90H x 30D (40W optional)	GE Type RB Bolted or Clip	CR324C Multilin 269+ <sup>10</sup>	N/A
One High CR194 800A <sup>5</sup> Vacuum Stationary or Drawout (FVNR) (induction motor or transformer loads)	50 kA rms sym. 4.80 kV (fused)	760A vented 640A non-vented	1200A & 2000A 3600A <sup>12</sup> (2800A non-vented)	1-high 480W x 90H x 30D	Ferraz Shawmut Type RB Bolted	CR324C Multilin 269+ <sup>10</sup>	N/A
CR7160 400A <sup>9</sup> Air-Break Drawout (FVNR) (induction motor or transformer loads)	50 kA rms sym. 4.80 kV (fused)	320A 1-high non-vented 360A 1-high vented 310A 2-high vented 250A 3-high vented 310A 3-high, with only 2 contactors	1000A & 2000A 3600A <sup>12</sup> (2800A non-vented)	1-high 34W x 90H x 30D (42W optional) 2-high & 3-high 44W x 90H x 30D	GE Type RA or RB	CR324C Multilin 269+	N/A
IC1074 1200A <sup>6</sup> Load Break Switch (stationary) (main, feeder, or tie)	38 kA rms sym. 4.76 kV (fused)	1200A vented w/o fuse 1000A non-vented w/o fuse 960A vented with fuse 840A non-vented with fuse	1000A & 2000A 3600A <sup>12</sup> (2800A non-vented)	38W x 90H x 30D	Ferraz Shawmut	N/A	ITI stationary drawout
Auxiliary Sections <sup>7</sup> (incoming line, metering auxiliary)	38 kA rms sym. 4.76 kV	Per devices installed	1000A & 2000A 3600A <sup>12</sup> (2800A non-vented)	90H x 30D any width available (22" minimum)	N/A	N/A	ITI stationary drawout

### NOTES:

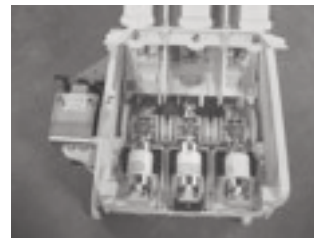
- 1 Copper only, silver or tin plating, insulation available.
- 2 NEMA 1 only, gasketing available. NEMA 2, 12, 3R available.
- 3 CR324 is ambient-compensated.
- 4 With primary and secondary fuses. Remote control power available.
- 5 Mechanical latch available. Capacitor trip device also available with latched contactor.
- 6 A switch may be used for isolation only.
- 7 Surge arresters available: GE #9L11XPB Polymer series.
- 8 Epoxy-coated.
- 9 Obsolete design-for replacement only.
- 10 Multilin 239, 269, 369, 469 available.
- 11 7.2 kV application available.
- 12 Adds 12 inches to depth.



# Motor Control Centers—Medium Voltage Limitamp Main Contactor Replacements and Conversions

Upgrades from original air break main contactors to vacuum interrupters are available either as complete roll-out/roll-in replacements, or as conversions completed by factory authorized service organizations, and offer the following features:

- Introduced in 1983
- Designed and tested to meet UL374 and NEMA ICS-3., Part 2
- Fully interchangeable with air break contactors
- Quiet operation due to use of DC coils
- Contained arc during interruption, even when interrupters fail to interrupt
- No replaceable arc vanes and arcing horns to maintain
- Uses same clip and bolted fuses as air break contactors
- Long life with minimal maintenance
- Fast and simple inspection of vacuum interrupter tip wear
- Interrupters use low chopping current materials
- Latch contactors available from factory (no field conversion)
- No conversion kit for 700A air break contactors (IC302E)



Basic Contactor Catalog Number	Description
IC2814E2##** and IC302	1966 Design with Glass Polyester Arc Chutes
IC2814E2##*	1966 Design with Asbestos Compound Arc Chutes
IC2814E1##	1962 Design Sheet Metal Frame Power Fuses on Top
IC302E	1966 Design - No Conversion Kit Available; 700A Contactor

## = Numeric Field

\*\* = Alpha Field

Contact your local GE sales or service representative for pricing and availability.

# Motor Control Centers—Medium Voltage

## Limitamp

### Frequently Requested Limitamp Renewal Parts

#### CR194 and CR7160

#### Limitamp Renewal Parts

Limitamp Type	Description	CR194	CR7160	Product Number
Arc Chute Assembly	Load Break Switch		•	204B4051BTG1
Blade Assembly	Load Break Switch		•	204B4051BRG1
		N/A		9F60JD025
		N/A		9F60JD030
		N/A		9F60JD040
		N/A		9F60JD050
	9F60 Series	N/A		9F60JD065
		N/A		9F60JD080
		N/A		9F60JD100
		N/A		9F60JD125
		N/A		9F60JD150
		N/A		9F60JD200
		•	•	9F62HCB025
		•	•	9F62HCB030
		•	•	9F62HCB040
		•	•	9F62HCB050
E Rated Fuses	9F62 G.P. Series	•	•	9F62HCB065
	Equivalent Cont.	•	•	9F62DCB080
	Current Rating	•	•	9F62DCB100
		•	•	9F62DCB125
		•	•	9F62DCB150
		•	•	9F62DCB175
		•	•	9F62DCB200
		•	•	9F62HCB025
		•	•	9F62HCB030
		•	•	9F62HCB040
		•	•	9F62HCB050
	9F62 G.P. Series	•	•	9F62HCB065
	Equivalent XFMR Protection	•	•	9F62DCB080
		•	•	9F62DCB125
		•	•	9F62DCB150
		•	•	9F62DCB175
	Air - Clip (5kV, 70A)	•	•	218A4291P2RB
	Air - Clip (5kV, 100A)	•	•	218A4291P3RB
	Air - Clip (5kV, 130A)	•	•	218A4291P4RB
	Air - Clip (5kV, 170A)	•	•	218A4291P6RB
	Air - Clip (5kV, 200A)	•	•	218A4291P9RB
	Air - Clip (5kV, 230A)	•	•	218A4291P12RB
	Air - Clip (5kV, 390A)	•	•	218A4291P18RB
	Air - Clip (5kV, 450A)	•	•	218A4291P24RB
	Air - Bolted (5kV, 70A)	•	•	218A4293P2RB
	Air - Bolted (5kV, 100A)	•	•	218A4293P3RB
	Air - Bolted (5kV, 130A)	•	•	218A4293P4RB
	Air - Bolted (5kV, 170A)	•	•	218A4293P6RB
	Air - Bolted (5kV, 200A)	•	•	218A4293P9RB
	Air - Bolted (5kV, 230A)	•	•	218A4293P12RB
	Air - Bolted (5kV, 390A)	•	•	218A4293P18RB
	Air - Bolted (5kV, 450A)	•	•	218A4293P24RB
	Vac. - Bolted (5kV, 70A)	•	•	55A212942P2RB
	Vac. - Bolted (5kV, 100A)	•	•	55A212942P3RB
	Vac. - Bolted (5kV, 130A)	•	•	55A212942P4RB
	Vac. - Bolted (5kV, 170A)	•	•	55A212942P6RB
	Vac. - Bolted (5kV, 200A)	•	•	55A212942P9RB
R Rated Fuses	Vac. - Bolted (5kV, 230A)	•	•	55A212942P12RB
	Vac. - Bolted (5kV, 390A)	•	•	55A212942P18RB
	Vac. - Bolted (5kV, 450A)	•	•	55A212942P24RB
	Vac. - Bolted - 800A (5kV, 425A)	•	•	55A213937P425B
	Vac. - Bolted - 800A (5kV, 550A)	•	•	55A213937P550B
	Vac. - Bolted - 800A (5kV, 630A)	•	•	55A213937P630B
	Vac. - Bolted - 800A (5kV, 800A)	•	•	55A213937P800B
	Air - Bolted (7.2kV, 70A)	•	•	218A4298P070
	Air - Bolted (7.2kV, 100A)	•	•	218A4298P100
	Air - Bolted (7.2kV, 180A)	•	•	218A4298P180
	Air - Bolted (7.2kV, 360A)	•	•	218A4298P360
	Vac. - Bolted (7.2kV, 70A)	•	•	55A212943P70
	Vac. - Bolted (7.2kV, 100A)	•	•	55A212943P100
	Vac. - Bolted (7.2kV, 180A)	•	•	55A212943P180
	Vac. - Bolted (7.2kV, 360A)	•	•	55A212943P360





# Motor Control Centers—Medium Voltage Limitamp Frequently Requested Limitamp Renewal Parts CR194 and CR7160

## Renewal Parts (continued)

Part	Description	Limitamp Type		Product Number
		CR194	CR7160	
R Rated Fuses <sup>1</sup>	Air or Vac Clip, 7.2kv, 70A	•	•	9F60LJE503
	Air or Vac Clip, 7.2kv, 130A	•	•	9F60LJE504
	Air or Vac Clip, 7.2kv, 170A	•	•	9F60LJE506
	Air or Vac Clip, 7.2kv, 200A	•	•	9F60LJE509
	Air or Vac Clip, 7.2kv, 230A	•	•	9F60LJE512
	Air or Vac Clip, 7.2kv, 390A	•	•	9F60MJE518
	Air or Vac Clip, 7.2kv, 450A	•	•	9F60MJE524
	0.75kVA 2400 to 230/115 Vac	•		573A350P86
Control Power Transformer	0.75kVA 4160 to 230/115 Vac	•		573A350P87
	2kVA 2400 to 230/115 Vac	•	•	573A350P44
	2kVA 4160 to 230/115 Vac	•	•	573A350P45
	3kVA 4160 to 230/115 Vac	•	•	573A350P53
Primary Fuses	3kVA 2400 to 230/115 Vac	•	•	573A350P54
	1 Amp (Use with .75kVA)	•	•	CSC#A480T1E-1
	3 Amp (Use with 2kVA)	•	•	CSC#A480T3E-1
Repl. Bottles	4 Amp (Use with 3kVA)	•	•	CSC#A480T4E-1
Repl. Bottles	Refer to Factory			
Vacuum Contactors	Refer to Factory	•	•	

This is a partial listing of GE's medium voltage power fuse offering. GE offers current limiting fuses for a large variety of applications, including full range fuses, potential transformer fuses, motor starters, capacitor fuses, supports, disconnect switches, and a variety of fuse clips and live parts.

For more information, please contact your local GE distributor, or local GE Consumer & Industrial sales representative. Our catalog (GEP-9013B), as well as other application and selection information are also available at [www.geelectrical.com](http://www.geelectrical.com). If you need further assistance you may contact our customer service group at 1-800-821-4873 (US only).

<sup>1</sup>GO-P001 for all R-Rated Fuses on this page only.

## Limitamp Parts Publications List

Model	Description	Number
CR194	Instructions (One-High) 400A	GEH-5305
	Instructions (Two-High) 400A	GEH-6263
	Renewal Parts 400A	DEF-002
	Instructions 800A	GEH-5396
CR7160 Air Break	Instructions and Maintenance	GEH-3091
	Renewal Parts	GEF-4630
CR-193 Vac. Contactor	Maintenance	GEH-5306
	Renewal Parts	GEF-8016
Air Break Contactor (IC2814 and IC302)	Instructions and Maintenance	GEH-3102
	Renewal Parts 400A	GEF-4551
	Renewal Parts 700A	GEF-4576
CR7160 Drawout Vac. Contactors	Instructions and Maintenance	GEH-4989
	Renewal Parts	GEF-8017
Load Break Switch (IC1074)	Instructions and Maintenance	GEH-4268



# Motor Control Centers

## GE CR 7069 Synchronous Motor Control Field Panels

### GE CR 7069 Synchronous Motor Control Field Panels

Designed to replace existing synchronous motor exciters for GE or other manufacture models, GE Synchronous field panels include state of the art digital controls, long lasting SCR switching devices, communications and many optional features. High quality hardware, solid experience with synchronous motor controls and GE installation service will ensure high reliability, better controls, enduring productivity and quick pay back on upgrade investments. GE Field Panels can be provided fully assembled in their own enclosures for quicker installation and hook up, or as kits that GE Engineering Services, OEMs or other integrators may install into existing enclosures.

GE Limitamp Synchronous Field Panels are offered for both brush and brushless synchronous motors. Both types of field panels are equipped with the GE Multilin® SPM solid-state synchronous field application and protection module. The SPM replaces older discrete devices such as DC current and voltage relays, DC meters, etc. More compact and reliable, the SPM controller provides digital synchronous motor control and protection functions including:

- Stator squirrel-cage type starting protection
- Power factor and pull-out running protection
- Field application control that maximizes pull-in torque (for brush-type machines only)
- Digital displays of motor running line current and power factor are featured along with a keypad for entering set-point parameters.
- Available options include field loss protection, exciter voltage check protection, field amps display, exciter volts display, incomplete sequence protection, and power factor regulation when used with compatible SCR type variable field exciters.
- Digital displays and motor status and electronic communications

### CR7069-A3 Brush, Collector-ring, type Synchronous Motor Field Panels

The GE CR7069-A3 field panel interconnects with a separate motor controller or circuit breaker motor feeder to provide the complete control necessary to control and protect a collector-ring (brush-type) synchronous motor.

#### Basic features

- NEMA 1 (standard) indoor floor mounted enclosure
- GE Multilin® SPM drawout relay with the following standard features:
  - Most favorable angle field application
  - Graduated squirrel-cage protection
  - Power factor/pull-out protection
  - Selectable ride-thru or re-synch feature
  - Loader relay output
  - Motor AC line amps display
  - Motor running power factor display
  - Field programmable set-points by keypad
  - Field amps display
  - Exciter volts display
  - Incomplete sequence protection
  - Field current loss protection
  - Field winding over-temperature protection
  - MODBUS RTU RS485 communication feature
- Field application and discharge contactor
- Field discharge resistor (separately shipped for top-of-panel mounting)
- Interface provisions for remote motor controller or circuit breaker motor feeder wired to terminal board.



Contact your local GE sales or service representative for pricing and availability.



# Motor Control Centers

## GE CR 7069 Synchronous Motor Control Field Panels

### CR7069-B3 Brushless Synchronous Motor Field Panels

The GE CR7069-B3 field panel interconnects with a separate motor controller or circuit breaker motor feeder to provide the control necessary to control and protect a brushless synchronous motor.

#### Features

- NEMA 1 (standard) indoor floor mounted enclosure (60"H x 32"W x 30"D)
- GE Multilin® SPM drawout relay with the following standard features:
  - Locked rotor protection
  - Power factor/pull-out protection
  - Selectable ride-thru or re-synch feature
  - Settable time exciter field application output
  - Loader relay output
  - Motor AC line amps display
  - Motor running power factor display
  - Field programmable set-points by keypad
  - Exciter field amps display
  - Exciter volts display
  - Exciter field current loss protection
  - Exciter field winding over-temperature protection
  - MODBUS RTU RS485 communication feature
- Variable autotransformer and rectifier for max. 7 ADC, 125 VDC rated exciter field. Manual adjustment of the autotransformer is available from front of the enclosure door.
- Motor exciter application relay
- Interface provisions for remote motor controller or circuit breaker motor feeder wired to terminal board.

Contact your local GE sales or service representative for pricing and availability.



# Section 4: Switchboards and Power Panels

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This catalog contains replacement parts, retrofits, accessories, and older generation products. For current generation products, please see the GE BuyLog® or Control Catalog.



# Panelboards Spectra® Series Panelboards

Replacement Boxes and Fronts. Order from the Customer Service Center

## Type APB NEMA 1 Enclosure

Width	Height	Interior X-Height	Modification	Product Number	
27"	65"	18X	11.50"D, Std Gauge	APB2765AS	
			11.50"D, Painted/Heavy Gauge	APB2765ASP	
			14.25"D, Std Gauge	APB2765A	
		23X	14.25"D, Painted/Heavy Gauge	APB2765AP	
			11.50"D, Std Gauge	APB2765BS	
			11.50"D, Painted/Heavy Gauge	APB2765BSP	
	75"	28X	14.25"D, Std Gauge	APB2765B	
			14.25"D, Painted/Heavy Gauge	APB2765BP	
			11.50"D, Std Gauge	APB2765CS	
		28X	11.50"D, Painted/Heavy Gauge	APB2765CSP	
			14.25"D, Std Gauge	APB2765C	
			14.25"D, Painted/Heavy Gauge	APB2765CP	
	89"	28X	11.50"D, Std Gauge	APB2775S	
			11.50"D, Painted/Heavy Gauge	APB2775SP	
			14.25"D, Std Gauge	APB2775	
		33X, 38X	14.25"D, Painted/Heavy Gauge	APB2775P	
			11.50"D, Std Gauge	APB2789S	
			11.50"D, Painted/Heavy Gauge	APB2789SP	
	31"	65"	18X	14.25"D, Std Gauge	APB2789
				14.25"D, Painted/Heavy Gauge	APB2789P
				11.50"D, Std Gauge	APB3165A
			23X	11.50"D, Painted/Heavy Gauge	APB3165AP
				14.25"D, Std Gauge	APB3165AD
				14.25"D, Painted/Heavy Gauge	APB3165ADP
		75"	28X	11.50"D, Std Gauge	APB3165B
				11.50"D, Painted/Heavy Gauge	APB3165BP
				14.25"D, Std Gauge	APB3165BD
			28X	14.25"D, Painted/Heavy Gauge	APB3165BDP
				11.50"D, Std Gauge	APB3165C
				11.50"D, Painted/Heavy Gauge	APB3165CP
		89"	23X, 28X	14.25"D, Std Gauge	APB3165CD
				14.25"D, Painted/Heavy Gauge	APB3165CDP
				11.50"D, Std Gauge	APB3175
			38X, 43X	11.50"D, Painted/Heavy Gauge	APB3175P
				14.25"D, Std Gauge	APB3175D
				14.25"D, Painted/Heavy Gauge	APB3175DP
96"		33X, 38X	11.50"D, Std Gauge	APB3189	
			11.50"D, Painted/Heavy Gauge	APB3189P	
			14.25"D, Std Gauge	APB3189D	
		48X	14.25"D, Painted/Heavy Gauge	APB3189DP	
			11.50"D, Std Gauge	APB3196A	
			11.50"D, Painted/Heavy Gauge	APB3196AP	
44"		38X, 43X	14.25"D, Std Gauge	APB3196AD	
			14.25"D, Painted/Heavy Gauge	APB3196ADP	
			11.50"D, Std Gauge	APB3196B	
		48X	11.50"D, Painted/Heavy Gauge	APB3196BP	
			14.25"D, Std Gauge	APB3196BD	
			14.25"D, Painted/Heavy Gauge	APB3196BDP	

## Type APB NEMA 1 Enclosure (Continued)

Width	Height	Interior X-Height	Modification	Product Number
36"	65"	18X, 23X, 28X	11.50"D, Std Gauge	APB3665
			11.50"D, Painted/Heavy Gauge	APB3665P
			16.25"D, Std Gauge	APB3665D
		75"	16.25"D, Painted/Heavy Gauge	APB3665DP
			11.50"D, Std Gauge	APB3675
			11.50"D, Painted/Heavy Gauge	APB3675P
	89"	23X, 28X	16.25"D, Std Gauge	APB3675D
			16.25"D, Painted/Heavy Gauge	APB3675DP
			11.50"D, Std Gauge	APB3689
		33X, 38X	11.50"D, Painted/Heavy Gauge	APB3689P
			16.25"D, Std Gauge	APB3689D
			16.25"D, Painted/Heavy Gauge	APB3689DP
	96"	38X, 43X, 48X	11.50"D, Std Gauge	APB3696
			11.50"D, Painted/Heavy Gauge	APB3696P
			16.25"D, Std Gauge	APB3696D
		65"	16.25"D, Painted/Heavy Gauge	APB3696DP
			11.50"D, Std Gauge	APB4065
			11.50"D, Painted/Heavy Gauge	APB4065P
	40"	18X, 23X	14.25"D, Std Gauge	APB4065D
			14.25"D, Painted/Heavy Gauge	APB4065DP
			11.50"D, Std Gauge	APB4075
		75"	11.50"D, Painted/Heavy Gauge	APB4075P
			14.25"D, Std Gauge	APB4075D
			14.25"D, Painted/Heavy Gauge	APB4075DP
	44"	33X, 38X	11.50"D, Std Gauge	APB4089
			11.50"D, Painted/Heavy Gauge	APB4089P
			14.25"D, Std Gauge	APB4089D
		96"	14.25"D, Painted/Heavy Gauge	APB4089DP
			11.50"D, Std Gauge	APB4096
			11.50"D, Painted/Heavy Gauge	APB4096P
	65"	38X, 43X, 48X	14.25"D, Std Gauge	APB4096D
			14.25"D, Painted/Heavy Gauge	APB4096DP
			11.50"D, Std Gauge	APB4465
		18X, 23X	11.50"D, Painted/Heavy Gauge	APB4465P
			16.25"D, Std Gauge	APB4465D
			16.25"D, Painted/Heavy Gauge	APB4465DP
75"	23X, 28X	11.50"D, Std Gauge	APB4475	
		11.50"D, Painted/Heavy Gauge	APB4475P	
		16.25"D, Std Gauge	APB4475D	
	44"	16.25"D, Painted/Heavy Gauge	APB4475DP	
		11.50"D, Std Gauge	APB4489	
		11.50"D, Painted/Heavy Gauge	APB4489P	
96"	33X, 38X	16.25"D, Std Gauge	APB4489D	
		16.25"D, Painted/Heavy Gauge	APB4489DP	
		11.50"D, Std Gauge	APB4496	
	38X, 43X, 48X	11.50"D, Painted/Heavy Gauge	APB4496P	
		16.25"D, Std Gauge	APB4496D	
		16.25"D, Painted/Heavy Gauge	APB4496DP	



# Panelboards

## Spectra® Series Panelboards

Replacement Boxes and Fronts. Order from the Customer Service Center

### Type APB NEMA 3R and 12 Enclosures

Width	Depth	Height	Interior X-Height <sup>1</sup>	Product Number <sup>2</sup>
27"	14.25"	65"	18X	APB(D,R)276518(B,T)
			23X	APB(D,R)276523(B,T)
			28X	APB(D,R)276528(B,T)
		89"	28X	APB(D,R)277528(B,T)
			33X	APB(D,R)278933(B,T)
			38X	APB(D,R)278938(B,T)
31"	14.25"	65"	18X	APB(D,R)316518(B,T)
			23X	APB(D,R)316523(B,T)
			28X	APB(D,R)316528(B,T)
		75"	23X	APB(D,R)317523E(B,T)
			23X GF	APB(D,R)317523E(B,T)
			28X	APB(D,R)317528(B,T)
		89"	33X	APB(D,R)318933(B,T)
			38X	APB(D,R)318938(B,T)
			18X	APB(D,R)366518(B,T)
36"	16.25"	65"	23X	APB(D,R)366523E(B,T)
			28X	APB(D,R)366528(B,T)
			23X	APB(D,R)367523E(B,T)
		75"	23X DM	APB(D,R)367523E(B,T)
			28X	APB(D,R)367528(B,T)
			33X	APB(D,R)368933(B,T)
		89"	38X	APB(D,R)368938(B,T)
			18X	APB(D,R)406518(B,T)
			23X	APB(D,R)406523(B,T)
40"	14.25"	65"	23X	APB(D,R)407523E(B,T)
			23X DM	APB(D,R)407523E(B,T)
		75"	28X	APB(D,R)407528(B,T)
			18X	APB(D,R)446518(B,T)
44"	16.25"	65"	23X	APB(D,R)446523(B,T)
			23X	APB(D,R)447523(B,T)
		75"	23X DM	APB(D,R)447523E(B,T)
			28X	APB(D,R)447528(B,T)

<sup>1</sup>GF = Ground Fault

DM = Dual Main, Ground Fault, 200% Neutral

<sup>2</sup>(D,R) D = NEMA 12

R = NEMA 3R

(B,T) B = Bottom Feed

T = Top Feed

### 200% Neutral

Provides second neutral assembly of equal amperage rating.

List Price Each, GO-101

250A	400A	600A	800A	1200A
\$865.00	\$965.00	\$1195.00	\$1527.00	\$1820.00

### Compression Lugs

Main Lugs, Neutral Lugs and Fusible Switches

Description	List Price Each		Description	List Price Each	
	GO-101			GO-101	
#12 1/0	\$20.00		500 kcmil	\$59.00	
2/0-300 kcmil	\$39.00		600-750 kcmil	\$81.00	



# Panelboards

## Spectra® Series Panelboards

### Accessories

#### Optional Fuse Clips

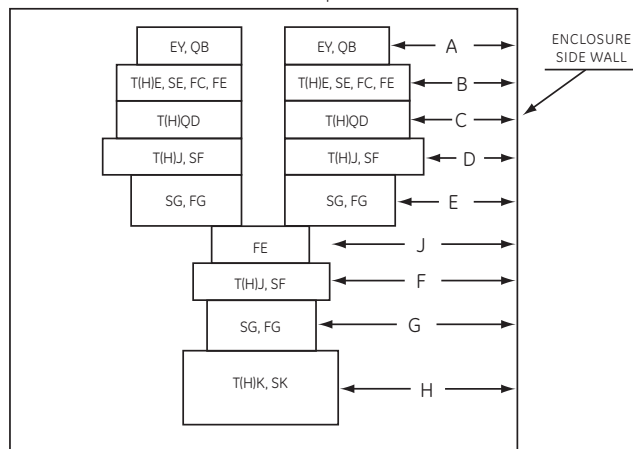
UL Class	Amp Rating	Availability
H	30-600	No Charge-Specify on order
J	30-600	No Charge-Specify on order
K	30-600	No Charge-Specify on order

#### ADS Fusible Switches (Available in Plug-in only)

Remove Dual and Feed-thru Lugs (added to main lugs) Adder for space only

X-height	List Price Adder GO-101
1	\$28.00
2	\$56.00
3	\$83.00
4	\$111.00
5	\$139.00
6	\$167.00
7	\$194.00
8	\$223.00
10	\$278.00
19	\$527.00

Breaker Side Gutter Space



Enclosure Width

Letter Reference	27	31	36	40	44
A	7.88	9.88	12.38	14.38	16.38
B	5.75	7.75	10.25	12.25	14.25
C	5.63	7.63	10.13	12.13	14.13
D	N/A	5.50	8	10	12
E	N/A	N/A	6.38	8.38	10.38
F	8.88	10.88	13.38	15.38	17.38
G	8.13	10.13	12.63	14.63	16.63
H	N/A	N/A	N/A	12.63	14.63
J	Breaker not available at time of printing				

**ALL DIMENSIONS ARE FROM FACE OF LUG, SHOWN IN INCHES AND ± .250 Single mounted devices as branch or main**

Breakers are arranged, as a standard and if not specified, with largest and highest amperage closest to main incoming and the smallest, lowest amperage furthest from the main incoming. The spaces, if any, will follow after the breakers. All main breakers are mounted horizontally and incoming lugs are, as a standard and if not specified, always oriented to the left gutter regardless if top or bottom feed. If 2 or more large branch breakers (SK, SG single mounted) are supplied with the board then the factory will start the first breaker with the lugs to the right and the second breaker with lugs to left and will continue staggering them until all have been installed. If any further clarification is needed, please contact your local GE representative.



# Panelboards

## Spectra® Series Panelboards

### Renewal Parts

**Modular Concept. Order all components from Customer Service Center**

Fig. 1.1 is a front view of a typical Spectra® Series fusible panelboard.

Fig. 1.2 is also a front view, but with the front (4 piece trim), all fusible switches, and all filler plates removed.

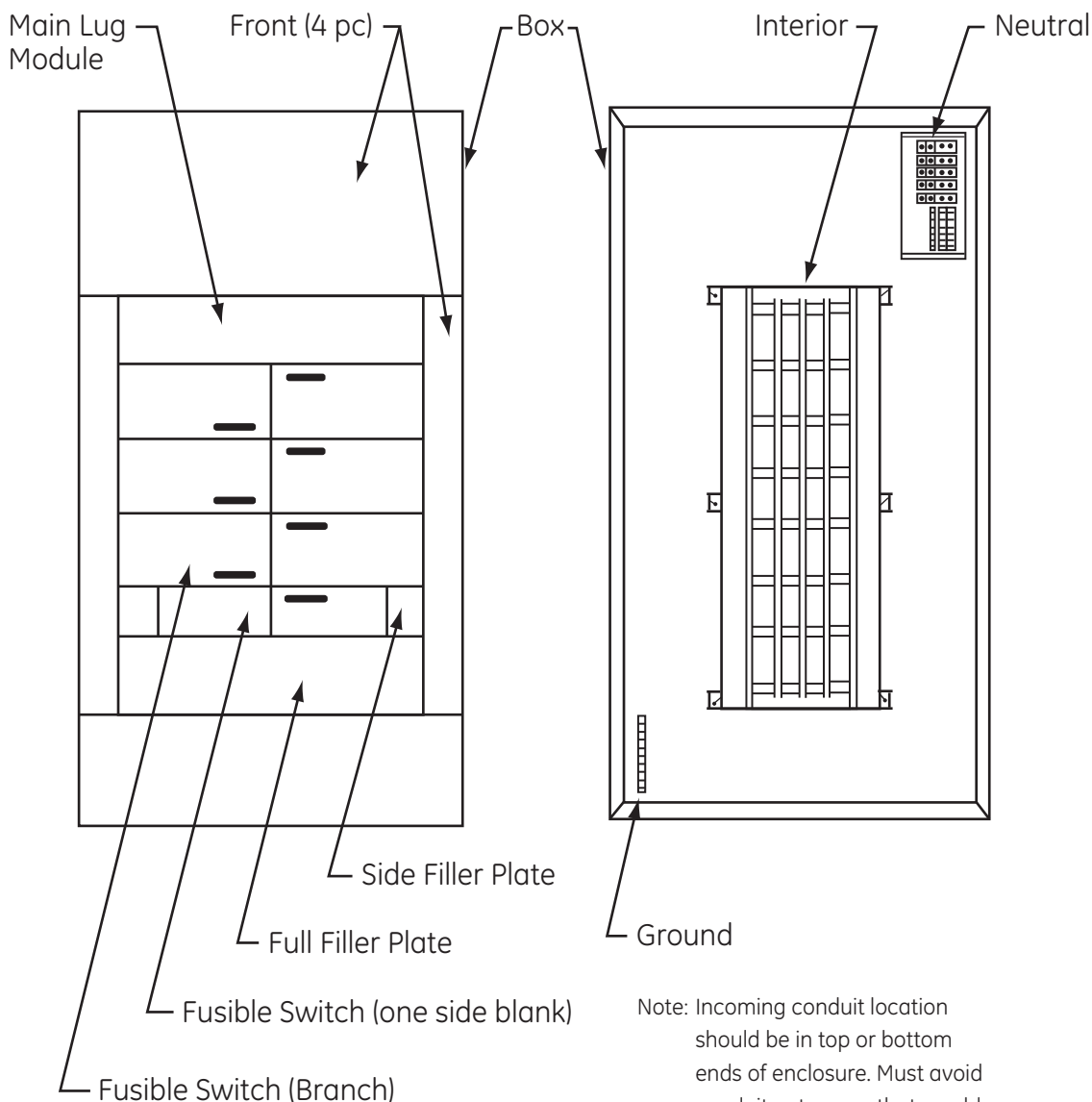


Fig. 1.1

Fig. 1.2







# Panelboards

## Spectra® Series Panelboards

### Renewal Parts

Product Number Structure

#### Panelboard Interior – Type APN

Example:	<b>APN</b>	<b>38</b>	<b>06</b>	<b>U</b>	<b>B4</b>
		<u>"X" Hgt of Interior</u>	<u>Ampere Rating</u>	<u>Interior Type</u>	<u>Modification Code</u>
		18 = 18X 23 = 23X 28 = 28X 33 = 33X 38 = 38X 43 = 43X 48 = 48X 53 = 53X	02 = 200A 04 = 400A 06 = 600A 08 = 800A 12 = 1200A	U = Unassembled	Blank = Standard (Aluminum Bus) B4 = Copper Bus (100A/sq in.)

#### Panelboard Interior – Type APNB

Example:	<b>APNB</b>	<b>38</b>	<b>06</b>	<b>U</b>	<b>B4</b>
		<u>"X" Hgt of Interior</u>	<u>Ampere Rating</u>	<u>Interior Type</u>	<u>Modification Code</u>
		18 = 18X 23 = 23X 28 = 28X 33 = 33X 38 = 38X 43 = 43X 48 = 48X 53 = 53X	02 = 200A 04 = 400A 06 = 600A 08 = 800A 12 = 1200A	U = Unassembled	Blank = Standard (Aluminum Bus) B4 = Copper Bus (100A/sq in.)

#### Panelboard Box – Type APB

Example:	<b>APB</b>	<b>36</b>	<b>89</b>	
		<u>Box Width</u>	<u>Box Height</u>	<u>Modification Code</u>
		27 = 27" 36 = 36" 44 = 44"	65 = 65" 75 = 75" 89 = 89" 96 = 96"	Blank = Any box except APB2765 A = For APB2765 with 18X interior B = For APB2765 with 23X interior C = For APB2765 with 28X interior

#### Panelboard Front – Type APF

Example:	<b>APF</b>	<b>89</b>	<b>38</b>	
		<u>Box Height</u>	<u>"X" Hgt of Interior</u>	<u>Modification Code</u>
		65 = 65" 75 = 75" 89 = 89" 96 = 96"	18 = 18X 23 = 23X 28 = 28X 33 = 33X 38 = 38X 43 = 43X 48 = 48X 53 = 53X	Blank = For Std Box (36" wide) S = For Slim Box (27" wide) W = For Wide Box (44" wide) E = Extra Line Gutter Space for Dual Main Neutral N = Nonvented Front (for 250A only)



# Panelboards

## Spectra® Series Panelboards

### Renewal Parts

Product Number Structure (Continued)

#### Main Lug Module – Type AMB

Example:	AMB	3	600	S	FP
		No. of Poles	Ampere Rating	Modification Code	Accessory Code
		3 = 3 poles	250 = 200A 400 = 400A 600 = 600A 800 = 800A 120 = 1200A	Blank = 6X Module with Mech Lugs S = 4X Module with Mech Lugs C = 6X Module with Compression Lugs D = Dual Main Lug	FP = With Filler Plate Kit (cover plates) MA = Mechanical Al/Cu Rated

#### Disconnect Switches – Type ADS

Example:	ADS	3	6	200	H	D	FP
		No. of Poles	Voltage Rating	Ampere Rating	Fuse Type	Unit Type	Accessory Code
		2 = 2 poles 3 = 3 poles	2 = 240V 6 = 600V	030 = 30A 060 = 60A 100 = 100A 200 = 200A 400 = 400A 600 = 600A 800 = 800A 120 = 1200A	H = Class H, R, or K T = Class T J = Class J L = Class L	D = Double Unit with 2 switches S = Single Switch in a Double Unit B = Single Branch Unit M = Main Switch K = Expansion Kit (switch only . . . no module)	FP = With Filler Plate Kit (side fillers)

#### Circuit Breaker Mounting Modules – Type AMC

Example:	AMC	6	EB	S	FP
		No. of Total CB Poles on Module	Breaker Frames	Unit Type	Accessory Code
		6 = 6 poles (3-pole breakers, double branched) 4 = 4 poles (2-pole breakers, double branched) 3 = 3 poles (3-pole breakers, single branched) 2 = 2 poles (2-pole breakers, single branched)	QB = THQB, THQB EY = TEY EB = TEB, TED, THED, SED, SEH, SEL, SEP FDB = FC FEB = FE Future FJ = TFJ, TFK, THFK, TFL, SFH, SFL, SFP JK = TJD, TJJ, TJK, THJK, TJ4V, TJL4V LB = TLB4, THLC2, THLC4 GB or GM = SGD, SGH, SGL, SGP FGB = FG KM = TKM, THKM, TK4V, TKL4V, SKH, SKL, SKP FB = FB	Blank = Std. S = Special Type to allow TFL, SE and SF to be mounted adjacent to a switch	FP = With Filler Plate Kit (full width plates with cutouts for handles, etc.)



# Panelboards

## Spectra® Series Panelboards

### Renewal Parts

#### Bolt-on Strap Kits – Type AMCB

Example:	<b>AMCB</b>	<b>6</b>	<b>EB</b>	<b>B</b>	<b>FP</b>
		<u>Poles</u>	<u>C/B Frame</u>	<u>Mounting</u>	<u>Accessory Code</u>
		2	EB = SE, TEB, T(H)ED	Blank = Main or Branch	FP = With Filler
		3	EY = TEY	B = Branch Only	Plate Kit
		4	FDB = FC	M = Main Only	(full width
		6	FE = FEB Future		plates with
			FJ = SF		cutouts for
			G = SG		handles, etc)
			FG = FGB		
			K = SK, T(H)KM		
			LB = THLC2,4		
			QD = T(H)QD		
			SE = SE, THED		

#### Neutral Kits – Type ANK

Example:	<b>ANK</b>	<b>800</b>	<b>D</b>
		<u>Ampere Rating</u>	<u>Modification Code</u>
		250 = 250A	Blank = Std (single main)
		400 = 400A	D = Dual Main
		600 = 600A	GF = Ground Fault Only
		800 = 800A	
		100 = 1000A	
		120 = 1200A	

#### Equipment Ground Kits – Type AEG

Example:	<b>AEG</b>	<b>21</b>	<b>S</b>
		<u>No. of Circuits</u>	<u>Modification Code</u>
		10	Blank = Std (bonded)
		21	S = Insulated/Isolated
		31	

#### NEMA 1 Box Extensions - Type APB<sup>1</sup>

Example:	<b>APB</b>	<b>27</b>	<b>E</b>
		<u>Width</u>	<u>Extension Depth</u>
		27	E = 12H, 11.5D, 31/36/40/44W
		31	12H, 14.25D, 27W
		36	ED = 12H, 14.25D, 31/40W
		40	12H, 16.25D, 36/44W
		44	ES = 12H, 11.5D, 27W

<sup>1</sup>Note: Available in SPEEDI under "EXT" code on modifications screen. Also available by product number through ONE STOP.



# Switchboards and Panelboards

## Spectra® Series Switchboards and Panelboards

### Renewal Parts

Mounting Hardware. Order from the Customer Service Center

#### Product Features

- Use to mount main or branch circuit breakers into panelboard. Breakers bolt on to the mounting modules.
- FP suffix indicates that all AFP filler plates, with cutouts for handles, are included to fit all applicable box widths. On double branch modules, filler plates to cover any unused breaker poles are also included.
- Circuit breakers not included in module price.
- Includes all necessary hardware.

#### Circuit Breaker Mounting Modules Plug-In Spectra® 3-pole

Mounting Arrangement	Maximum Breaker Amperage	Breaker Frame	X Height	Filler Plate Kit Product Number	Box Width Range	Product Number	List Price GO-139C
Double Branch	100	THQB or THHQB	3X	AFP3QBD	27", 31", 36" 40", 44"	AMC6QBFP	\$263.00
Double Branch	100	TEY	3X	AFP3EYD	27", 31", 36" 40", 44"	AMC6EYFP	\$263.00
Double Branch	100	FCS, FCV, FCN, FCH or FCL	3X	AFP3FDD	27", 31", 36", 40", 44"	AMC6FDBFP	\$263.00
Double Branch	150	TEB, TED, THED, SEDA SEHA, SELA or SEPA	3X	AFP3SED	27", 31", 36" 40", 44"	AMC6EBFP	\$263.00
Double Branch	225	TQD or THQD	3X	AFP3QDD	27", 31", 36" 40", 44"	AMC6QDFP	\$263.00
Double Branch	225	TFJ or TFK or THFK	3X	AFP3TFD	31", 36", 40", 44"	AMC6FJFPTF	\$649.00
Double Branch	250	SFHA or SFLA or SFPA	3X	AFP3SFD	31", 36", 40" 44"	AMC6FJFP1	\$649.00
Double Branch	400	TJD or TJJ	6X	AFP6TJD	44"	AMC6JKFP	\$1234.00
Double Branch	600	TJK or THJK	6X	AFP6TJD	44"	AMC6JKFP	\$1234.00
Double Branch	600	FGL, FGN, FGH or FGP	4X	AFP4FGD	40", 44"	AMC6FGBFP	\$1234.00
Double Branch	600	SGDA or SGHA or SGLA or SGPA	4X	AFP4SGD	40", 44"	AMC6GBFP2	\$1234.00
Double Branch Adjacent to Switch	100	FCS, FCV, FCN, FCH or FCL	4X	AFP4FDD	36", 44"	AMC6FDSFP	\$263.00
Double Branch Adjacent to Switch	150	SEDA or SEHA or SELA or SEPA	4X	AFP4SED	36", 44"	AMC6EBSFP	\$263.00
Double Branch Adjacent to Switch	250	SFHA or SFLA or SFPA	4X	AFP4SFD	36", 44"	AMC6FLSFP	\$772.00
Single Branch or Main	225	TFJ or TFK or THFK	3X	AFP3TFS	27", 31", 36", 40", 44"	AMC3FJFPTF	\$649.00
Single Branch or Main	250	SFHA or SFLA or SFPA	3X	AFP3SFS	27", 31", 36", 40", 44"	AMC3FJFP1	\$649.00
Single Branch or Main	400	TJD or TJJ	6X	AFP6TJS	27", 31", 36", 40", 44"	AMC3JKFP	\$1234.00
Single Branch or Main	600	TJK or THJK	6X	AFP6TJS	27", 31", 36", 40", 44"	AMC3JKFP	\$1234.00
Single Branch or Main	600	FGV, FGN, FGH or FGP	4X	AFP4FGS	27", 31", 36", 40", 44"	AMC3FGMFP	\$1234.00
Single Branch or Main	600	SGDA or SGHA or SGLA or SGPA	4X	AFP4SGS	27", 31", 36", 40", 44"	AMC3GMFP	\$1234.00
Single Branch or Main	1200	TKM or THKM or SKHA or SKLA	6X	AFP6SKS	40", 44"	AMC3KMFP	\$1545.00
Single Branch or Main	1200	SKPA	6X	AFP6SKS	44"	AMC3KMFP	\$1545.00
Single Branch or Main Adjacent to Switch	250	SFHA or SFLA or SFPA	4X	AFP4SFS	36", 44"	AMC3FLSFP	\$772.00

#### Circuit Breaker Mounting Modules Plug-In Spectra® 2-pole

Mounting Arrangement	Maximum Breaker Amperage	Breaker Frame	X Height	Filler Plate Kit Product Number	Box Width Range	Product Number	List Price GO-139C
Double Branch	100	THQB or THHQB	3X	AFP3QBD	27", 31", 36" 40", 44"	AMC6QBFP	\$263.00
Double Branch	100	TEY	3X	AFP3EYD	27", 31", 36" 40", 44"	AMC6EYFP	\$263.00
Double Branch	100	FCS, FCV, FCN, FCH or FCL	3X	AFP3FDD	27", 31", 36", 40", 44"	AMC4FDBFP	\$263.00
Double Branch	150	TEB or TED	3X	AFP2TED	27", 31", 36" 40", 44"	AMC4EBFP	\$263.00
Double Branch	150	SEDA or SEHA or SELA or SEPA, THED	3X	AFP3SED	27", 31", 36" 40", 44"	AMC4SEFP	\$263.00
Double Branch	225	TQD or THQD	2X	AFP2QDD	27", 31", 36" 40", 44"	AMC4QDFP	\$263.00
Double Branch	225	TFJ or TFK or THFK	3X	AFP3TFD	31", 36", 40", 44"	AMC4FJFPTF	\$649.00
Double Branch	250	SFHA or SFLA or SFPA	3X	AFP3SFD	31", 36", 40" 44"	AMC4FJFP1	\$649.00
Double Branch	400	TJD or TJJ	6X	AFP6TJD	44"	AMC4JKFP	\$1234.00
Double Branch	600	TJK or THJK	6X	AFP6TJD	44"	AMC4JKFP	\$1234.00
Double Branch	600	FGV, FGN, FGH or FGP	4X	AFP4FGD	40", 44"	AMC4FGBFP	\$1234.00
Double Branch	600	SGDA or SGHA or SGLA or SGPA	4X	AFP4SGD	40", 44"	AMC4GBFP2	\$1234.00
Double Branch Adjacent to Switch	100	FCS, FCV, FCN, FCH or FCL	4X	AFP4FDD	36", 44"	AMC4FDSFP	\$263.00
Double Branch Adjacent to Switch	150	SEDA or SEHA or SELA or SEPA	4X	AFP4SED	36", 44"	AMC4EBSFP	\$263.00
Double Branch Adjacent to Switch	250	SFHA or SFLA or SFPA	4X	AFP4SFD	36", 44"	AMC4FLSFP	\$772.00
Single Branch or Main	225	TFJ or TFK or THFK	3X	AFP3TFS	27", 31", 36", 40", 44"	AMC2FJFPTF	\$649.00
Single Branch or Main	250	SFHA or SFLA or SFPA	3X	AFP3SFS	27", 31", 36", 40", 44"	AMC2FJFP1	\$649.00
Single Branch or Main	400	TJD or TJJ	6X	AFP6TJS	27", 31", 36", 40", 44"	AMC2JKFP	\$1254.90
Single Branch or Main	600	TJK or THJK	6X	AFP6TJS	27", 31", 36", 40", 44"	AMC2JKFP	\$1254.90
Single Branch or Main	600	FGV, FGN, FGH or FGP	4X	AFP4FGS	27", 31", 36", 40", 44"	AMC2FGMFP	\$1234.00
Single Branch or Main	600	SGDA or SGHA or SGLA or SGPA	4X	AFP4SGS	27", 31", 36", 40", 44"	AMC2GMFP	\$1234.00
Single Branch or Main	1200	TKM or THKM or SKHA or SKLA	6X	AFP6SKS	40", 44"	AMC2KMFP	\$1545.00
Single Branch or Main	1200	SKPA	6X	AFP6SKS	44"	AMC2KMFP	\$1545.00
Single Branch or Main Adjacent to Switch	250	SFHA or SFLA or SFPA	4X	AFP4SFS	36", 44"	AMC2FLSFP	\$772.00

<sup>1</sup>SE and SF breakers located adjacent to a fusible switch, PCU or TVSS require mounting modules suitable for mounting "Adjacent to Switch."

SGDA circuit breaker rated 400 amps maximum.

<sup>2</sup>THLC 1/2/4 breaker no longer available.

Note: 1X = 1 3/8" vertical panel space.



# Switchboards and Panelboards

## Spectra® Series Switchboards and Panelboards

### Renewal Parts

Mounting Hardware. Order from the Customer Service Center

#### Product Features

- Module includes fusible switch and panelboard mounting connectors. Fuses not included.
- Class R Fuse Clip Kit (for field installation) included with all switches that accept Class R Fuses.
- FP suffix indicates that all AFP filler plates are included to fit applicable box widths.

#### Branch Switch Modules Plug-In Spectra® 240 Volts 3-pole

Mounting Arrangement	Fuse Type	Switch Amperes	X Height	Side Filler Plate Kit Part Number	Box Width Range	Product Number	List Price GO-139B
Double Branch-2 switches	H, R, or K	30	4X	AFP4X	36", 44"	ADS32030HDFP	\$572.00
Double Branch-2 switches	H, R, or K	60	4X	AFP4X	36", 44"	ADS32060HDFP	\$572.00
Double Branch-2 switches	H, R, or K	100	5X	AFP5X	36", 44"	ADS32100HDFP	\$772.00
Double Branch-2 switches	T	100	7X	AFP7T	36", 44"	ADS32100TDFP	\$729.00
Double Branch-2 switches	H, R, or K	200	7X	AFP7X2	44"	ADS32200HDFP	\$1832.00
Double Branch-2 switches	T	200	7X	AFP7T	36", 44"	ADS32200TDFP	\$1832.00
Double Branch-switch plus space	H, R, or K	30	4X	AFP4X	36", 44"	ADS32030HSFP	\$286.00
Double Branch-switch plus space	H, R, or K	60	4X	AFP4X	36", 44"	ADS32060HSFP	\$286.00
Double Branch-switch plus space	H, R, or K	100	5X	AFP5X	36", 44"	ADS32100HSFP	\$386.00
Single Branch	H, R, or K	200	7X	AFP7X	36", 44"	ADS32200HBFP	\$916.00
Single Branch	H, R, or K	400	10X	AFP10X	44"	ADS32400HBFP	\$2035.00
Single Branch	T	400	10X	AFP10T	36", 44"	ADS32400TBFP	\$2084.00
Single Branch	H, R, or K	600	10X	AFP10X	44"	ADS32600HBFP	\$2841.00
Single Branch	T	600	10X	AFP10T	36", 44"	ADS32600TBFP	\$2854.00

#### Branch Switch Modules Plug-In Spectra® 240 Volts 2-pole

Mounting Arrangement	Fuse Type	Switch Amperes	X Height	Side Filler Plate Kit Part Number	Box Width Range	Product Number	List Price GO-139B
Double Branch-2 switches	H, R, or K	30	4X	AFP4X	36", 44"	ADS22030HDFP	\$462.00
Double Branch-2 switches	H, R, or K	60	4X	AFP4X	36", 44"	ADS22060HDFP	\$462.00
Double Branch-2 switches	T	100	7X	AFP7T	36", 44"	ADS32100TDFP	\$729.00
Double Branch-2 switches	H, R, or K	100	5X	AFP5X	36", 44"	ADS22100HDFP	\$649.00
Double Branch-2 switches	H, R, or K	200	7X	AFP7X2	44"	ADS22200HDFP	\$1414.00
Double Branch-2 switches	T	200	7X	AFP7T	36", 44"	ADS22200TDFP	\$1365.00
Double Branch-switch plus space	H, R, or K	30	4X	AFP4X	36", 44"	ADS22030HSFP	\$231.00
Double Branch-switch plus space	H, R, or K	60	4X	AFP4X	36", 44"	ADS22060HSFP	\$202.00
Double Branch-switch plus space	H, R, or K	100	5X	AFP5X	36", 44"	ADS22100HSFP	\$324.00
Single Branch	H, R, or K	200	7X	AFP7X	36", 44"	ADS22200HBFP	\$683.00
Single Branch	T	200	7X	AFP7X	36", 44"	ADS22200TBS	\$683.00
Single Branch	H, R, or K	400	10X	AFP10X	44"	ADS22400HBFP	\$1427.00
Single Branch	T	400	10X	AFP10T	36", 44"	ADS22400TBFP	\$1433.00
Single Branch	H, R, or K	600	10X	AFP10X	44"	ADS22600HBFP	\$2355.00
Single Branch	T	600	10X	AFP10T	36", 44"	ADS22600TBFP	\$2201.00

Note: 1X = 1 3/8" vertical panel space



# Switchboards and Panelboards

## Spectra® Series Switchboards and Panelboards

### Renewal Parts

Mounting Hardware. Order from the Customer Service Center

#### Product Features

- Module includes fusible switch and panelboard mounting connectors. Fuses not included.
- Class R Fuse Clip Kit (for field installation) included with all switches that accept Class R Fuses.
- FP suffix indicates that all AFP filler plates are included to fit applicable box widths.

#### Branch Switch Modules Plug-In Spectra® 600 Volts 3-pole

Mounting Arrangement	Fuse Type	Switch Amperes	X Height	Side Filler Plate Kit Part Number	Box Width Range	Product Number	List Price GO-139B
Double Branch-2 switches	H, R, J, or K	30	4X	AFP4X	36", 44"	ADS36030HDFP	\$738.00
Double Branch-2 switches	H, R, J, or K	60	5X	AFP5X	36", 44"	ADS36060HDFP	\$738.00
Double Branch-2 switches	H, R, J, or K	100	5X	AFP5X	36", 44"	ADS36100HDFP	\$1111.00
Double Branch-2 switches	H, R, or K	200	7X	AFP7X2	44"	ADS36200HDFP	\$2319.00
Double Branch-2 switches	J	200	7X	AFP7T	36", 44"	ADS36200JDFP	\$2319.00
Double Branch-switch plus space	H, R, J, or K	30	4X	AFP4X	36", 44"	ADS36030HSFP	\$369.00
Double Branch-switch plus space	H, R, J, or K	60	5X	AFP5X	36", 44"	ADS36060HSFP	\$369.00
Double Branch-switch plus space	H, R, J, or K	100	5X	AFP5X	36", 44"	ADS36100HSFP	\$555.00
Single Branch	H, R, or K	200	7X	AFP7X	36", 44"	ADS36200HBFP	\$1160.00
Single Branch	H, R, or K	400	10X	AFP10X	44"	ADS36400HBFP	\$2639.00
Single Branch	J	400	10X	AFP10T	36", 44"	ADS36200JBFP	\$2639.00
Single Branch	T	400	10X	AFP10T	36", 44"	ADS36400TBFP	\$2639.00
Single Branch	H, R, or K	600	10X	AFP10X	44"	ADS36600HBFP	\$3112.00
Single Branch	J	600	10X	AFP10T	36", 44"	ADS36600JBFP	\$3125.00
Single Branch	T	600	10X	AFP10T	36", 44"	ADS36600TBFP	\$3125.00
Single Branch	L	800	19X	AFP19X	44"	ADS36800LBFP	\$5149.00
Single Branch	L	1200	19X	AFP19X	44"	ADS36120LBFP	\$5514.00

#### Branch Switch Modules Plug-In Spectra® 600 Volts 2-pole

Mounting Arrangement	Fuse Type	Switch Amperes	X Height	Side Filler Plate Kit Part Number	Box Width Range	Product Number	List Price GO-139B
Double Branch-2 switches	H, R, J, or K	30	4X	AFP4X	36", 44"	ADS26030HDFP	\$636.00
Double Branch-2 switches	H, R, J, or K	60	5X	AFP5X	36", 44"	ADS26060HDFP	\$636.00
Double Branch-2 switches	H, R, J, or K	100	5X	AFP5X	36", 44"	ADS26100HDFP	\$895.00
Double Branch-2 switches	T	100	7X		N/A	ADS26100TDFP	\$871.00
Double Branch-2 switches	H, R, or K	200	7X	AFP7X2	44"	ADS26200HDFP	\$1950.00
Double Branch-2 switches	J	200	7X	AFP7T	36", 44"	ADS26200JDFP	\$2319.00
Double Branch-switch plus space	H, R, J, or K	30	4X	AFP4X	36", 44"	ADS26030HSFP	\$318.00
Double Branch-switch plus space	H, R, J, or K	60	5X	AFP5X	36", 44"	ADS26060HSFP	\$318.00
Double Branch-switch plus space	H, R, J, or K	100	5X	AFP5X	36", 44"	ADS26100HSFP	\$447.00
Single Branch	H, R, or K	200	7X	AFP7X	36", 44"	ADS26200HBFP	\$895.00
Single Branch	J	200	7X	AFP7X	36"	ADS26200JSFP	\$1789.00
Single Branch	H, R, or K	400	10X	AFP10X	44"	ADS26400HBFP	\$2025.00
Single Branch	J	400	10X	AFP10T	36", 44"	ADS26400JBFP	\$1963.00
Single Branch	T	400	10X	AFP10T	36", 44"	ADS26400TBFP	\$1963.00
Single Branch	H, R, or K	600	10X	AFP10X	44"	ADS26600HBFP	\$2701.00
Single Branch	J	600	10X	AFP10T	36", 44"	ADS26600JBFP	\$2483.00
Single Branch	T	600	10X	AFP10T	36", 44"	ADS26600TBFP	\$2483.00
Single Branch	L	800	19X	AFP19X	44"	ADS26800LBFP	\$4217.00
Single Branch	L	1200	19X	AFP19X	44"	ADS26120LBFP	\$4590.00

Note: 1X = 1 3/8" vertical space



# Switchboards and Panelboards

## Spectra® Series Switchboards and Panelboards

### Renewal Parts

Mounting Hardware, Order from the Customer Service Center

#### Mounting Hardware With Filler Plate, Straps and Brackets Bolt-On Spectra®

Mounting kit with filler plate includes hardware straps, brackets and filler plate.  
Filler plate kit includes filler plate and associated hardware only.

Mounting Arrangement	Breaker Frame	Number of Poles	Box Width Range	X Height	Product Number	List Price GO-134B
Dual Mounted	TEB, TED	2-pole	27"-44"	2X	AMCB4EBFP	\$263.00
Dual Mounted	TEY	2-pole	27"-44"	3X	AMCB4EYFP	\$263.00
Dual Mounted	FCS, FCV, FCN, FCH or FCL	2-pole	27", 31", 36", 40", 44"	3X	AMCB4FDBFP	\$263.00
Dual Mounted	TQD, THQD	2-pole	27"-44"	2X	AMCB4QDFP	\$263.00
Dual Mounted	THED, SED, SEH, SEL, SEP	2-pole	27"-44"	3X	AMCB4SEFP	\$263.00
Dual Mounted	TEB, TED, THED, SED, SEH, SEL, SEP	3-pole	27"-44"	3X	AMCB6EBFP	\$263.00
Dual Mounted	TEY	3-pole	27"-44"	3X	AMCB6EYFP	\$263.00
Dual Mounted	FCS, FCV, FCN, FCH or FCL	3-pole	27", 31", 36", 40", 44"	3X	AMCB6FDBFP	\$263.00
Dual Mounted	TQD, THQD	3-pole	27"-44"	3X	AMCB6QDFP	\$263.00
Dual Mounted	SFH, SFL, SFP	2-pole	31"-44"	3X	AMCB4FJFP	\$649.00
Dual Mounted	SFH, SFL, SFP	3-pole	31"-44"	3X	AMCB6FJFP	\$649.00
Dual Mounted	TFJ, TFK, THFK	2-pole	36"-44"	2X	AMCB4FJPTF	\$649.00
Dual Mounted	TFJ, TFK, THFK	2-pole	36"-44"	3X	AMCB6FJPTF	\$649.00
Dual Mounted	FGV, FGN, FGH or FGP	2-pole	40", 44"	4X	AMCB4FGBFP	\$1234.00
Dual Mounted	SGH, SGL, SGP	2-pole	40"-44"	4X	AMCB4GBFP	\$1234.00
Dual Mounted	FGV, FGN, FGH or FGP	3-pole	40", 44"	4X	AMCB6FGBFP	\$1234.00
Dual Mounted	SGH, SGL, SGP	3-pole	40"-44"	4X	AMCB6GBFP	\$1234.00
Single Mounted	SFH, SFL, SFP	2-pole	27"-44"	3X	AMCB2FJFP	\$649.00
Single Mounted	TFJ, TFK, THFK	2-pole	27"-44"	3X	AMCB2FJPTF	\$649.00
Single Mounted	FGV, FGN, FGH or FGP	2-pole	27", 31", 36", 40", 44"	4X	AMCB2FGMFP	\$1234.00
Single Mounted	SGH, SGL, SGP	2-pole	27"-44"	4X	AMCB2GMFP	\$1234.00
Single Mounted	SFH, SFL, SFP	3-pole	27"-44"	3X	AMCB3FJFP	\$649.00
Single Mounted	TFJ, TFK, THFK	3-pole	27"-44"	3X	AMCB3FJPTF	\$649.00
Single Mounted	FGV, FGN, FGH or FGP	3-pole	27", 31", 36", 40", 44"	4X	AMCB3FGMFP	\$1234.00
Single Mounted	SGH, SGL, SGP	3-pole	27"-44"	4X	AMCB3GMFP	\$1234.00
Single Mounted	SKP	2-pole	27"-44"	6X	AMCB3LBFP	\$772.00
Single Mounted	SKH, SKL, SKP, TKM, THKM	2-pole	40"-44"	6X	AMCB2KMFP	\$1545.00
Single Mounted	SKH, SKL, SKP, TKM, THKM	3-pole	40"-44"	6X	AMCB3KMFP	\$1545.00

#### Filler Plates Bolt-On Spectra®

Filler plate kit includes filler plate and associated hardware only.

Mounting Arrangement	Breaker Frame	Number of Poles	Box Width Range	X Height	Product Number	List Price GO-139C
Dual Mounted	TQD, THQD	2-pole	27"-44"	2X	AFP2QDD	\$55.00
Dual Mounted	TEB, TED	2-pole	27"-44"	2X	AFP2TED	\$55.00
Dual Mounted	TEY	2-, 3-pole	27"-44"	3X	AFP3EYD	\$55.00
Dual Mounted	TQD, THQD	3-pole	27"-44"	3X	AFP3QDD	\$55.00
Dual Mounted	TEB, TED, THED, SED, SEH, SEL, SEP	2-, 3-pole	27"-44"	3X	AFP3SED	\$55.00
Dual Mounted	SFH, SFL, SFP	2-, 3-pole	31"-44"	3X	AFP3SFD	\$55.00
Dual Mounted	TFJ, TFK, THFK	2-, 3-pole	36"-44"	2X, 3X	AFP3TFD	\$55.00
Dual Mounted	FGV, FGN, FGH or FGP	3-pole	40", 44"	4X	AFP4FGD	\$55.00
Dual Mounted	SGH, SGL, SGP	2-, 3-pole	40"-44"	4X	AFP4SGD	\$55.00
Single Mounted	SFH, SFL, SFP	2-, 3-pole	27"-44"	3X	AFP3SFS	\$55.00
Single Mounted	TFJ, TFK, THFK	2-, 3-pole	27"-44"	3X	AFP3TFS	\$55.00
Single Mounted	FGV, FGN, FGH or FGP	2-, 3-pole	27", 31", 36", 40", 44"	4X	AFP4FGS	\$55.00
Single Mounted	SGH, SGL, SGP	2-, 3-pole	27"-44"	4X	AFP4SGS	\$55.00
Single Mounted	SKP	2-pole	27"-44"	6X	AFP5LCS	\$55.00
Single Mounted	SKP, SKH, SKL, TKM, THKM	3-pole	44"-44"	6X	AFP6SKS	\$55.00

Notes: 1X = 1 3/8" vertical space. THLC 1/2/4 breaker no longer available.





# Switchboards and Panelboards

## Spectra® Series Switchboards and Panelboards

### Renewal Parts

Order from the Customer Service Center

#### Filler Plates Plug-In or Bolt-On Spectra®

Use to cover unused spaces.  
Includes filler plate support brackets and hardware.

Space X Height <sup>1</sup>	Box Width Range	Switchboard Section Widths	Product Number	List Price GO-103C
1X	27", 31"	35	APP1S	\$61.50
2X	27", 31"	35	APP2S	\$61.50
3X	27", 31"	35	APP3S	\$61.50
4X	27", 31"	35	APP4S	\$61.50
5X	27", 31"	35	APP5S	\$61.50
6X	27", 31"	35	APP6S	\$61.50
1X	36", 40"	40	APP1	\$61.50
2X	36", 40"	40	APP2	\$61.50
3X	36", 40"	40	APP3	\$61.50
4X	36", 40"	40	APP4	\$61.50
5X	36", 40"	40	APP5	\$61.50
6X	36", 40"	40	APP6	\$61.50
1X	44"	45	APP1W	\$61.50
2X	44"	45	APP2W	\$61.50
3X	44"	45	APP3W	\$61.50
4X	44"	45	APP4W	\$61.50
5X	44"	45	APP5W	\$61.50
6X	44"	45	APP6W	\$61.50

<sup>1</sup> X-height: 1X = 1 3/8"

#### Mounting Hardware Plug-In or Bolt-On Spectra® ADS Switch Replacement Load Base Kits

Includes load base, clips and lugs.

Replacement for Load Base Part Number	Load Base Amperage Rating	Load Base - No. of Poles	Load Base Voltage	Product Number	List Price GO-139B
ADS22030HD	-	-	-	331A1519G1	\$67.00
ADS32030HD	-	-	-	331A1519G2	\$92.00
ADS322060HD	-	-	-	331A1519G3	\$65.00
ADS32060HD	-	-	-	331A1519G4	\$92.00
ADS26030HD	-	-	-	331A1519G5	\$65.00
ADS36030HD	-	-	-	331A1519G6	\$92.00
ADS26060HD	-	-	-	331A1519G7	\$101.00
ADS36060HD	-	-	-	331A1519G8	\$223.00
ADS36200JD	-	-	-	331A1519G12	\$398.00
ADS26200JD	-	-	-	331A1519G16	\$271.00
ADS36200JM	-	-	-	331A1519G20	\$396.00
ADS26200JM	-	-	-	331A1519G22	\$271.00
-	100A	2-pole	240V & 600V	331A1519G9	\$83.00
-	100A	3-pole	240V & 600V	331A1519G10	\$196.00
-	100A	3-pole	240V & 600V	331A1519G14	\$101.00
-	100A	2-pole	240V & 600V	331A1519G18	\$74.00
-	200A	3-pole	240V & 600V	331A1519G11	\$112.00
-	200A	2-pole	240V & 600V	331A1519G13	\$105.00
-	200A	2-pole	240V & 600V	331A1519G15	\$80.50
-	200A	2-pole	240V & 600V	331A1519G17	\$76.00
-	200A	3-pole	240V & 600V	331A1519G19	\$112.00
-	200A	2-pole	240V & 600V	331A1519G21	\$80.50
-	400A	2-pole	240V & 600V	331A1545G1	\$227.00
-	400A	3-pole	240V & 600V	331A1545G3	\$366.00
-	400A	2-pole	240V & 600V	331A1545G5	\$569.00
-	400A	3-pole	240V & 600V	331A1545G7	\$569.00
-	600A	2-pole	240V & 600V	331A1545G2	\$229.00
-	600A	3-pole	240V & 600V	331A1545G4	\$370.00
-	600A	2-pole	240V & 600V	331A1545G6	\$850.00
-	600A	3-pole	240V & 600V	331A1545G8	\$850.00
-	400-1200A	-	-	331A1543G1	\$103.00

#### Mounting Hardware Single Breaker Plug-In Spectra®

Included when ordering AMC module. Only required when mounting breaker on existing module.

Kit contains screws and washers to mount one circuit breaker on AMC circuit breaker mounting module.

Circuit Breaker Mounting Module Part Number	Product Number	List Price GO-139C
AMC6EB	AHKE1	\$3.00
AMC4SE		
AMC4EB		
AMC6EBS		
AMC6EL	AHKEL1	\$3.00
AMC2FLS	AHKF1	\$3.00
AMC6FJ		
AMC4FJ		
AMC3FJ		
AMC2FJ		
AMC6FLS		
AMC3FLS		
AMC4FLS		
AMC2GM	AHKG1	\$8.00
AMC6GB		
AMC4GB		
AMC3GM		
AMC2JK	AHKJ1	\$8.00
AMC6JK		
AMC4JK		
AMC3JK		
AMC3LB	AHKL1	\$4.00
AMC6LB		
AMC4QD	AHKQ1	\$3.00
AMC6QD		
FCS, FCV, FCN, FCH or FCL	AHKFD1	\$3.00
FGV, FGN, FGH or FGP	AHKFG1	\$8.00

#### Mounting Hardware—Hardware only; no brackets or straps Bolt-On Spectra®

Breaker Frame	Product Number	List Price GO-134B
SE	AHKBE1	\$38.00
SF	AHKBF1	\$38.00
SG	AHKBG1	\$38.00
THQD	AHKBQ1	\$38.00
FCS, FCV, FCN, FCH or FCL	AHKBF1	\$38.00
FGV, FGN, FGH or FGP	AHKBF1	\$38.00



# Switchboards and Panelboards

## Spectra® Series Switchboards and Panelboards

### Renewal Parts

#### Main Lug Modules; Neutral and Ground Kits, Plug-In or Bolt-On

#### Lug Kits and Modules Plug-In Spectra®

- FP suffix indicates all AFPML cover plates included to fit applicable box widths.
- Can be converted to dual main lug version by adding lug kits (see Accessories).
- Mechanical lug modules can be converted to compression lug modules by replacing standard lugs with AMKP compression lug kit (see Accessories)
- Can be used for feed-thru lugs application by replacing standard cover plate with AFL feed-thru lug cover plate kit (see Accessories).

Lug Ampere Rating	Lug Type	X Height	Lugs Per Phase	Wires per Lug	Wire Range (Cu/Al)	Included Cover Plate	Box Width Range	Product Number	List Price GO-103C
250	Mechanical	4X	1	1	#6-350kcmil	AFPML4X	27",36"	AML3250SFP1	\$657.00
250	Mechanical	6X	1	1	#6-350kcmil	AFPML6X	36"	AML3250FP	\$657.00
400	Mechanical	4X	1	2	#2-500kcmil	AFPML4X	27",36",44"	AML3400SFP1	\$933.00
400	Mechanical	6X	1	2	#2-500kcmil	AFPML6X	36",44"	AML3400FP	\$933.00
600	Mechanical	4X	1	2	#2-500kcmil	AFPML4X	27",36",44"	AML3600SFP1	\$1227.00
600	Mechanical	6X	1	2	#2-500kcmil	AFPML6X	36",44"	AML3600FP	\$1227.00
800	Mechanical	6X	2	2	#2-500kcmil	AFPML6XW	36",44"	AML3800FP	\$1514.00
1200	Mechanical	6X	2	2	#2-500kcmil	AFPML6XW	36",44"	AML3120FP	\$2092.00
250	Compression	6X	2	1	350kcmil	AFPML6X	36"	AML3250CFP	\$657.00
400	Compression	6X	2	1	500kcmil	AFPML6X	36",44"	AML3400CFP	\$933.00
600	Compression	6X	2	1	500kcmil	AFPML6X	36",44"	AML3600CFP	\$1227.00
800	Compression	6X	4	1	500kcmil	AFPML6XW	36",44"	AML3800CFP	\$1514.00
1200	Compression	6X	4	1	500kcmil	AFPML6XW	36",44"	AML3120CFP	\$2092.00

<sup>1</sup>4X modules cannot be converted to compression lug version.

#### Lug Kits and Modules Plug-In or Bolt-On Spectra®—Neutral

- Includes mechanical lugs and bonding strap.
- 250 to 600A neutral kits can be converted to dual main version by doubling the main lug quantity using lug kits (see Accessories).
- Main lug on neutral kit can be converted to compression main using AMKP lug kit.

Lug Amp Rating	No. of Main Lugs	No. of Wires	Wire Range (Cu/Al)	Product Number	List Price GO-103C
<b>Bolt-On</b>					
250/400	Single/Dual	2 (MAIN)	#2 - 600kcmil	ANKN400	\$237.00
		16	#14 - 2/0		
		5	#6 - 300kcmil		
600/800/1200	Single/Dual	8 (MAIN)	#2 - 600kcmil	ANKN120	\$555.00
		9	#14 - 2/0		
		10	#6 - 300kcmil		
		10	#14 - #4		
<b>Plug-In</b>					
800	Dual	8 (MAIN)	#2 - 500kcmil	ANK800D	\$664.00
		8	#14 - 2/0		
		10	#6 - 300kcmil		
		4	#2 - 500kcmil		
1200	Dual	8 (MAIN)	#2 - 500kcmil	ANK120D	\$757.00
		8	#14 - 2/0		
		10	#6 - 300kcmil		
		4	#2 - 500kcmil		

For 3ph, 4W single-section panelboards, use a standard neutral.

For 3ph, 4W multi-section panelboards, use a standard neutral on the last section, and a dual main neutral on the first and middle sections.

#### Lug Kits and Modules Plug-In or Bolt-On Spectra®—Ground

- AEG10 and AEG21 should be ordered in multiples of 10 due to 10 kits per carton bulk-packaging.
- AEG21S and AEG31S are packaged as quantity 1 kit per carton.

Bonding Type	Total Circuits	No. of Wires	Wire Range (Cu/Al)	Product Number	List Price GO-103C
Bonded	10	10	#6-2/0 Cu/Al	AEG10	\$172.00
Bonded	21	9	Solid: #14-#8 Cu or #12-#8 Al or Stranded: #12-#8 Cu or #12-#8 Al or Stranded: #10-#4 Cu or #10-#4 Al	AEG21	\$92.00
Insulated/isolated	21	9	Solid: #14-#8 Cu or #12-#8 Al or Stranded: #12-#8 Cu or #12-#8 Al or Stranded: #10-#4 Cu or #10-#4 Al	AEG21S	\$331.00
Insulated/isolated	31	10	#6-2/0 Cu/Al	AEG31S	\$331.00



# Switchboards and Panelboards

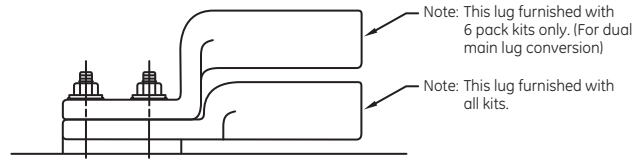
## Spectra® Series Switchboards and Panelboards Merchandise

### Renewal Parts, Accessories

#### Feed Thru Lug Cover Plate Kits

- Use to convert AML main lug module to feed thru lug module
- Kit includes barrier and oversized cover plates.  
(Discard original cover plates.)

Lug Amp Rating	X Height	Box Width Range	Product Number	List Price GO-103C
250/400/600	9X	27", 36", 44"	AFL600	<b>\$507.00</b>
800/1200	12X	36", 44"	AFL120	<b>\$863.00</b>



Crimp Lugs

#### Mechanical Lug Kits and Modules

- Use to convert AML main mechanical lug modules or ANK neutral modules to dual main lug version.
- Can be used to replace standard lugs with oversized lugs.

Wire Range (Cu/Al)	Lugs Per Kit	Wires per Lug	Product Number	List Price GO-139C
#6-350kcmil	3	1	AMK350	<b>\$116.00</b>
#2-500kcmil	3	2	AMK500	<b>\$179.00</b>
#2-600kcmil	3	2	AMK600	<b>\$179.00</b>
3/0-750kcmil	3	2	AMK750	<b>\$208.00</b>

#### Compression Lug Kits and Modules

Use to convert AML main mechanical lug modules to compression lug version.

Wire Size	Package Type	Crimp Tool Die Cat. No. Homac	Crimp Tool Die Cat. No. Burndy	Crimp Tool Die Cat. No. T&B	Product Number	List Price GO-139C
1/0	3 PACK	15CA52	296	50	AMKP101	<b>\$71.00</b>
1/0	6 PACK	15CA52	296	50	AMKP2101	<b>\$143.00</b>
2/0	3 PACK	15CA52	297	54H	AMKP202	<b>\$71.00</b>
2/0	6 PACK	15CA52	297	54H	AMKP2202	<b>\$143.00</b>
3/0	3 PACK	15CA66	467	60	AMKP303	<b>\$71.00</b>
3/0	6 PACK	15CA66	467	60	AMKP2303	<b>\$143.00</b>
4/0	3 PACK	15CA71H	298	66	AMKP404	<b>\$71.00</b>
4/0	6 PACK	15CA71H	298	66	AMKP2404	<b>\$143.00</b>
250kcmil	3 PACK	15CA76	324	71H	AMKP250	<b>\$88.00</b>
250kcmil	6 PACK	15CA76	324	71H	AMKP2250	<b>\$176.00</b>
300kcmil	3 PACK	15CA87H 15C87	470	76	AMKP300	<b>\$103.00</b>
300kcmil	6 PACK	15CA87H 15C87	470	76	AMKP2300	<b>\$206.00</b>
350kcmil	3 PACK	15CA96H 15C96H	299	87H	AMKP350	<b>\$116.00</b>
350kcmil	6 PACK	15CA96H 15C96H	299	87H	AMKP2350	<b>\$232.00</b>
400kcmil	3 PACK	15CA96H 15C96H	472	94H	AMKP400	<b>\$116.00</b>
400kcmil	6 PACK	15CA96H 15C96H	472	94H	AMKP2400	<b>\$232.00</b>
500kcmil	3 PACK	15CA106A 15C106R	300	99H	AMKP500	<b>\$179.00</b>
500kcmil	6 PACK	15CA106A 15C106R	300	99H	AMKP2500	<b>\$358.00</b>
600kcmil	3 PACK	15CA115H 15C115H	473	106H	AMKP600	<b>\$179.00</b>
600kcmil	6 PACK	15CA115H 15C115H	473	106H	AMKP2600	<b>\$358.00</b>
700/750 kcmil	3 PACK	15C125H	936	115H	AMKP750	<b>\$208.00</b>
700/750 kcmil	6 PACK	15C125H	936	115H	AMKP2750	<b>\$416.00</b>

Notes: For dual main applications, double the kit quantity.

#### Permanent Circuit Number Tabs

For Circuit Numbers	Product Number	List Price GO-139C
1-49	APN49	<b>\$111.00</b>
1-99	APN99	<b>\$222.00</b>

#### Compression Lug Kits

- Use to replace standard load-side mechanical lugs on ADS branch switches.
- Each kit includes 3 lugs.

Wire Range	Lugs Per Phase	For Switch Amperes	Product Number	List Price GO-139B
#8-1/0 Cu/Al	1	30, 60, or 100	KLP101	<b>\$135.00</b>
#4-300kcmil Cu/Al	1	200	KLP300	<b>\$225.00</b>
2/0-500kcmil Cu/Al	2, 4	800 or 1200	KLP500	<b>\$435.00</b>
400-600kcmil Cu/Al or 400-500kcmil Cu	2, 4	800 or 1200	KLP600	<b>\$564.00</b>
500-750kcmil Al or 750kcmil Cu	2, 4	800 or 1200	KLP750	<b>\$564.00</b>



# Switchboards and Panelboards

## Spectra® Series Switchboards and Panelboards Merchandise

Renewal Parts, Interiors, Boxes and Fronts, Order from Customer Service Center

### Product Features

- In selecting an interior X-height, add up all required main and branch module X-heights, plus any required spaces for future.
- UL Service Entrance label is included on all interiors.

### Boxes

Panel Current Rating (amperes)	Space X Height	Box Width/Depth	Box Height (inches)	Product Number	List Price GO-103B
250, 400	18	27" W x 14.5" D	64.63	APB2765A	<b>\$112.00</b>
250	28	27" W x 14.5" D	64.63	APB2765C	<b>\$112.00</b>
250, 400, 600	38	27" W x 14.5" D	89.25	APB2789	<b>\$152.00</b>
400	28	27" W x 14.5" D	75.5	APB2775	<b>\$130.00</b>
600	23	27" W x 14.5" D	64.63	APB2765B	<b>\$112.00</b>
250, 400, 600	18, 28	36" W x 11.5" D	64.63	APB3665	<b>\$165.00</b>
400, 800, 1200	28	36" W x 11.5" D	75.5	APB3675	<b>\$180.00</b>
250, 400, 600, 800, 1200	38	36" W x 11.5" D	89.25	APB3689	<b>\$204.00</b>
250, 400, 600, 800, 1200	43, 48	36" W x 11.5" D	96.13	APB3696	<b>\$215.00</b>
400, 600	18, 23	44" W x 11.5" D	64.63	APB4465	<b>\$183.00</b>
400, 800, 1200	23, 28	44" W x 11.5" D	75.5	APB4475	<b>\$204.00</b>
400, 600, 800, 1200	38	44" W x 11.5" D	89.25	APB4489	<b>\$227.00</b>
400, 600, 800, 1200	43, 48	44" W x 11.5" D	96.13	APB4496	<b>\$241.00</b>

### Front w/Door

Panel Current Rating (amperes)	Space X Height	Box Width/Depth	Box Height (inches)	Product Number	List Price GO-103B
250	18	27" W x 14.5" D	64.63	APF6518NS	<b>\$197.00</b>
250	28	27" W x 14.5" D	64.63	APF6528NS	<b>\$197.00</b>
250	38	27" W x 14.5" D	89.25	APF8938NS	<b>\$316.00</b>
400	18	27" W x 14.5" D	64.63	APF6518S	<b>\$197.00</b>
400	28	27" W x 14.5" D	75.5	APF7528S	<b>\$278.00</b>
600	23	27" W x 14.5" D	64.63	APF6523S	<b>\$197.00</b>
600	38	27" W x 14.5" D	89.25	APF8938S	<b>\$316.00</b>

### 4-pc Fronts

Panel Current Rating (amperes)	Space X Height	Box Width/Depth	Box Height (inches)	Product Number	List Price GO-103B
250	18	36" W x 11.5" D	64.63	APF6518N	<b>\$237.00</b>
250	28	36" W x 11.5" D	64.63	APF6528N	<b>\$237.00</b>
250	38	36" W x 11.5" D	89.25	APF8938N	<b>\$447.00</b>
250	53	36" W x 11.5" D	96.13	APF9653N	<b>\$481.00</b>
400	18	36" W x 11.5" D	64.63	APF6518	<b>\$237.00</b>
400, 800, 1200	28	36" W x 11.5" D	75.5	APF7528	<b>\$329.00</b>
400, 600, 800, 1200	38	36" W x 11.5" D	89.25	APF8938	<b>\$447.00</b>
600	23	36" W x 11.5" D	64.63	APF6523	<b>\$237.00</b>
400, 600, 800, 1200	48	36" W x 11.5" D	96.13	APF9648	<b>\$481.00</b>
800	23	36" W x 11.5" D	75.5	APF7523	<b>\$329.00</b>
800, 1200	43	36" W x 11.5" D	96.13	APF9643	<b>\$481.00</b>
400	18	44" W x 11.5" D	64.63	APF6518W	<b>\$371.00</b>
600	23	44" W x 11.5" D	64.63	APF6523W	<b>\$371.00</b>
800	23	44" W x 11.5" D	75.5	APF7523W	<b>\$428.00</b>
400, 1200	28	44" W x 11.5" D	75.5	APF7528W	<b>\$428.00</b>
400, 600, 800, 1200	38	44" W x 11.5" D	89.25	APF8938W	<b>\$522.00</b>
800, 1200	43	44" W x 11.5" D	96.13	APF9643W	<b>\$564.00</b>
400, 600	48	44" W x 11.5" D	96.13	APF9648W	<b>\$564.00</b>

### Interior Aluminum

Panel Current Rating (amperes)	Space X Height	Product Number	List Price GO-103B
250	18	APN1802U	<b>\$481.00</b>
250	28	APN2802U	<b>\$750.00</b>
250	38	APN3802U	<b>\$1018.00</b>
250	53	APN5302U	<b>\$1420.00</b>
400	18	APN1804U	<b>\$536.00</b>
400	28	APN2804U	<b>\$840.00</b>
400	38	APN3804U	<b>\$1136.00</b>
400	48	APN4804U	<b>\$1437.00</b>
600	23	APN2306U	<b>\$761.00</b>
600	38	APN3806U	<b>\$1259.00</b>
600	48	APN4806U	<b>\$1588.00</b>
800	23	APN2308U	<b>\$835.00</b>
800	38	APN3808U	<b>\$1439.00</b>
800	43	APN4308U	<b>\$1556.00</b>
1200	28	APN2812U	<b>\$1105.00</b>
1200	38	APN3812U	<b>\$1499.00</b>
1200	43	APN4312U	<b>\$1694.00</b>

### Interior Copper

Panel Current Rating (amperes)	Space X Height	Product Number	List Price GO-103B
250	18	APN1802UB4	<b>\$835.00</b>
250	28	APN2802UB4	<b>\$1105.00</b>
250	38	APN3802UB4	<b>\$1370.00</b>
250	53	APN5302UB4	<b>\$1774.00</b>
400	18	APN1804UB4	<b>\$1126.00</b>
400	28	APN2804UB4	<b>\$1425.00</b>
400	38	APN3804UB4	<b>\$1724.00</b>
400	48	APN4804UB4	<b>\$2025.00</b>
600	23	APN2306UB4	<b>\$1554.00</b>
600	38	APN3806UB4	<b>\$2052.00</b>
600	48	APN4806UB4	<b>\$2383.00</b>
800	23	APN2308UB4	<b>\$1872.00</b>
800	38	APN3808UB4	<b>\$2415.00</b>
800	43	APN4308UB4	<b>\$2476.00</b>
1200	28	APN2812UB4	<b>\$2671.00</b>
1200	38	APN3812UB4	<b>\$3063.00</b>
1200	43	APN4312UB4	<b>\$3258.00</b>



# Switchboards and Panelboards

## Spectra® Series Switchboards and Panelboards

### Type SCP Plus

Renewal Parts, Enclosure Options, Mounting Hardware and Spare Parts. Order through the Customer Service Center unless stated otherwise below. **GE Fastrac Program items are indicated in red**

#### Boxes

Box Width/Depth	X Height	Box Height (inches)	Product Number	List Price GO-101
31"W x 11.5"D	15	49.375	ACB311149	\$454.00
31"W x 11.5"D	18	53.5	ACB311153	\$489.00
31"W x 11.5"D	21	57.625	ACB311157	\$539.00
31"W x 11.5"D	24	61.75	ACB311161	\$700.00
31"W x 11.5"D	27	65.875	ACB311165	\$780.00
31"W x 11.5"D	30	70	ACB311170	\$846.00
31"W x 11.5"D	33	74.125	ACB311174	\$890.00
31"W x 11.5"D	36	78.25	ACB311178	\$942.00
31"W x 11.5"D	39	82.275	ACB311182	\$992.00
31"W x 11.5"D	42	86.5	ACB311186	\$1051.00
40"W x 11.5"D	15	49.375	ACB401149	\$466.00
40"W x 11.5"D	18	53.5	ACB401153	\$490.00
40"W x 11.5"D	21	57.625	ACB401157	\$700.00
40"W x 11.5"D	24	61.75	ACB401161	\$746.00
40"W x 11.5"D	27	65.875	ACB401165	\$785.00
40"W x 11.5"D	30	70	ACB401170	\$824.00
40"W x 11.5"D	33	74.125	ACB401174	\$886.00
40"W x 11.5"D	36	78.25	ACB401178	\$934.00
40"W x 11.5"D	39	82.275	ACB401182	\$965.00
40"W x 11.5"D	42	86.5	ACB401186	\$1003.00

Box dimensions are inside dimensions. Add 1/4-inch for outside dimensions. Boxes furnished with no knockouts.

#### Fronts

Box Width/Depth	X Height	Box Height (inches)	Product Number	List Price GO-101
31"W x 11.5"D	15	49.375	ACF3149S	\$298.00
31"W x 11.5"D	18	53.5	ACF3153S	\$336.00
31"W x 11.5"D	21	57.625	ACF3157S	\$360.00
31"W x 11.5"D	24	61.75	ACF3161S	\$466.00
31"W x 11.5"D	27	65.875	ACF3165S	\$509.00
31"W x 11.5"D	30	70	ACF3170S	\$553.00
31"W x 11.5"D	33	74.125	ACF3174S	\$597.00
31"W x 11.5"D	36	78.25	ACF3178S	\$634.00
31"W x 11.5"D	39	82.275	ACF3182S	\$666.00
31"W x 11.5"D	42	86.5	ACF3186S	\$709.00
40"W x 11.5"D	15	49.375	ACF4049S	\$336.00
40"W x 11.5"D	18	53.5	ACF4053S	\$373.00
40"W x 11.5"D	21	57.625	ACF4057S	\$416.00
40"W x 11.5"D	24	61.75	ACF4061S	\$529.00
40"W x 11.5"D	27	65.875	ACF4065S	\$628.00
40"W x 11.5"D	30	70	ACF4070S	\$647.00
40"W x 11.5"D	33	74.125	ACF4074S	\$678.00
40"W x 11.5"D	36	78.25	ACF4078S	\$734.00
40"W x 11.5"D	39	82.275	ACF4082S	\$760.00
40"W x 11.5"D	42	86.5	ACF4086S	\$802.00

Flush fronts (F) are 2 inches larger than box. Surface fronts (S) are 1/4-inch larger than box.

Note: If filler plates for SCP+ panels are required, please contact Houston equipment plant.

Note: THLC 1/2/4 breaker no longer available.

#### Mounting Hardware—Hardware Kit and Straps

Mounting Arrangement	Breaker Frame	Maximum Breaker Amperage	Breaker Number of Poles	Product Number	List Price GO-134B
Dual Mounted	SHE, SEL, SED, SEP	150A		ACTMKSE	\$663.00
Dual Mounted	TEB, TED, THED	150A	single-pole	ACTMKEB1P	\$330.00
Dual Mounted	TEB, TED, THED	150A	two-pole	ACTMKEB2P	\$663.00
Dual Mounted	TEB, TED, THED	150A	three-pole	ACTMKEB3P	\$663.00
Dual Mounted	TFK, SFH, SFL, SFP	250A		ACTMKSF	\$1270.00
Dual Mounted	TQD, THQD	225A	two-pole	ACTMKQD2P	\$1041.00
Dual Mounted	TQD, THQD	225A	three-pole	ACTMKQD3P	\$1041.00
Dual Mounted	TJD, TJJ, TJK	400A		ACTMKJD	\$1815.00
Dual Mounted	SGD, SGH, SGL, SGP	400A, 600A		ACTMKSG	\$2170.00
Single Mounted	SGD, SGH, SGL, SGP	400A, 800A		ACSMKSG	\$2170.00
Single Mounted	SKH, SKL	800A, 1200A		ACSMKSK	\$4286.00
Single Mounted	TB4	400A		ACSMKTB4	\$4246.00
Single Mounted	TB6	600A		ACSMKTB6	\$3391.00
Single Mounted	TB8	800A		ACSMKTB8	\$4946.00

#### Mounting Hardware—Filler Plate and Filler Hardware

Mounting Arrangement	Breaker Frame	Maximum Breaker Amperage	Breaker Number of Poles	Product Number	List Price GO-134B
Dual Mounted	SHE, SEL, SED, SEP	150A		ACTFPKSE	\$143.00
Dual Mounted	TEB, TED, THED	150A	single-pole	ACTFPKEB1P	\$143.00
Dual Mounted	TEB, TED, THED	150A	two-pole	ACTFPKEB2P	\$143.00
Dual Mounted	TEB, TED, THED	150A	three-pole	ACTFPKEB3P	\$143.00
Dual Mounted	TFK, SFH, SFL, SFP	250A		ACTFPKSF	\$143.00
Dual Mounted	TQD, THQD	225A	two-pole	ACTFPKQD2P	\$143.00
Dual Mounted	TQD, THQD	225A	three-pole	ACTFPKQD3P	\$143.00
Dual Mounted	TJD, TJJ, TJK	400A		ACTFPKJD	\$143.00
Dual Mounted	SGD, SGH, SGL, SGP	400A, 600A		ACTFPKSG	\$143.00
Single Mounted	SGD, SGH, SGL, SGP	400A, 800A		ACSFPKSG	\$143.00
Single Mounted	SKH, SKL	800A, 1200A		ACSFPKSK	\$143.00
Single Mounted	TB4	400A		ACSFPKTB4	\$143.00

#### Mounting Hardware—Hardware to Mount One Breaker

Mounting Arrangement	Breaker Frame	Maximum Breaker Amperage	Breaker Number of Poles	Product Number	List Price GO-134B
Dual Mounted	SHE, SEL, SED, SEP	150A		ACTHKSE	\$84.00
Dual Mounted	TEB, TED, THED	150A	single-pole	ACTHKEB1P	\$84.00
Dual Mounted	TEB, TED, THED	150A	two-pole	ACTHKEB2P	\$84.00
Dual Mounted	TEB, TED, THED	150A	three-pole	ACTHKEB3P	\$84.00
Dual Mounted	TFK, SFH, SFL, SFP	250A		ACTHKSF	\$84.00
Dual Mounted	TQD, THQD	225A	two-pole	ACTHKQD2P	\$84.00
Dual Mounted	TQD, THQD	225A	three-pole	ACTHKQD3P	\$84.00
Dual Mounted	TJD, TJJ, TJK	400A		ACTHKJD	\$84.00
Dual Mounted	SGD, SGH, SGL, SGP	400A, 600A		ACTHKSG	\$84.00
Single Mounted	SGD, SGH, SGL, SGP	400A, 800A		ACSHKSG	\$84.00
Single Mounted	SKH, SKL	800A, 1200A		ACSHKSK	\$84.00
Single Mounted	TB4	400A		ACSHKTB4	\$84.00



# Switchboards and Panelboards

## Spectra® Series Switchboards and Panelboards

### Power

Renewal Parts, Type **CCB** and **QMR** Panelboards. Order through the Customer Service Center unless stated otherwise below.

#### Mounting Hardware—Copper Straps for Use on Cu or Al Main Bus Dual Mounted

Breaker Frame	Kit Ampere Rating	Product Number	List Price GO-134B
TEB/TED	150A	TED1DPK	\$663.00
TEJ/TFK/TFL	225A	TF2DPK	\$1270.00
TQD	225A	TQ2DPK	\$1041.00
TJD/TJJ/TJK	400A	TJ4DPK	\$1815.00
TJK	600A	TJ6DPK	\$2170.00
TLB1/THLC1	150A	THLC1DPK	\$2075.00
TEL	150A	TEL1DPK	\$1917.00
TB1	150A	TB1DPK	\$1747.00
SFH/SFL	225A	SF2DPK <sup>1,2</sup>	\$1070.00

<sup>1</sup>If mounting hardware exists – must order SFCARE @ \$30.00 List Price, GO-148F for additional insulators.

<sup>2</sup>225A Maximum

#### Mounting Hardware—Copper Straps for Use on Cu or Al Main Bus Single Mounted

Breaker Frame	Kit Ampere Rating	Product Number	List Price GO-134B
TKM8/THKM8	800A	TK8SPK <sup>3</sup>	\$3028.00
TB1	100A	TB1SPK <sup>3</sup>	\$1747.00
TB6	600A	TB6SPK <sup>3</sup>	\$3391.00
TB8	800A	TB8SPK <sup>3</sup>	\$4946.00
TKM12/THKM12	1200A	TK12SPK <sup>3,4</sup>	\$5093.00
SKH8	800A	SK8SPK <sup>3</sup>	\$4286.00
SKH12	1200A	SK12SPK <sup>3</sup>	\$5685.00

<sup>3</sup>Deep mounted interior is required.

<sup>4</sup>Requires 7x of space if mounted at extreme end (top or bottom) of interior or 8x if mounted in center of interior.

#### Complete Hole Filler Kits

Ordering is easy for applications requiring both an overcurrent device and the associated mounting hardware. To order the device plus hardware, simply select the appropriate suffix from the table below and add it to the device product number.

For example, a requirement for a 100A 3-pole TED breaker and hardware for a CCB panel should be ordered as TED134100DPK:

Breaker/TED134100 + Suffix/DPK = Complete Unit Shipped/(1) TED134100 Circuit Breaker, (1) TED1DPK Hardware Kit

#### Device and Hardware Suffix Selection

Panelboard Lighting Type	Device Type		
	Twin (Double) Mount	Single Mount	TQD, TED, Panel Subfeed
CCB/QMR	DPK	SPK	—
Switchboards	DPK	SPK	—

To ensure a unit shipment, you must order using the device product number plus suffix; orders for the device and kit as separate items will ship as separate items.



# Switchboards and Panelboards

## Spectra® Series Switchboards and Panelboards

### Power

Renewal Parts, Type **CCB** and **QMR** Panelboards. Order through the Customer Service Center unless stated otherwise below.

#### Replacement Panelboard CCB Front<sup>1</sup> (Flush or Surface)

Box Width/Depth	X Height	Box Height (inches)	Product Number <sup>2</sup>	List Price GO-101
31" Wide x 9 1/2"	15X	49	CBA3121S,F	<b>\$359.00</b>
Deep Box (No Knockouts)				
31" Wide x 9 1/2"	18X	53 1/2	CBA3124S,F	<b>\$410.00</b>
Deep Box (No Knockouts)				
31" Wide x 9 1/2"	21X	57 5/8	CBA3127S,F	<b>\$436.00</b>
Deep Box (No Knockouts)				
31" Wide x 9 1/2"	24X	61 3/4	CBA3130S,F	<b>\$489.00</b>
Deep Box (No Knockouts)				
31" Wide x 9 1/2"	30X	70	CBA3136S,F	<b>\$677.00</b>
Deep Box (No Knockouts)				
31" Wide x 9 1/2"	42X	86 1/2	CBA3148S,F	<b>\$735.00</b>
Deep Box (No Knockouts)				
35" Wide x 11 1/2"	36X	78 1/4	CBA3542S,F	<b>\$872.00</b>
Deep Box (No Knockouts)				
40" Wide x 11 1/2"	21X	57 5/8	CBA4027S,F	<b>\$572.00</b>
Deep Box (No Knockouts)				
40" Wide x 11 1/2"	24X	61 3/4	CBA4030S,F	<b>\$728.00</b>
Deep Box (No Knockouts)				
40" Wide x 11 1/2"	30X	70	CBA4036S,F	<b>\$890.00</b>
Deep Box (No Knockouts)				
40" Wide x 11 1/2"	33X	74 1/8	CBA4039S,F	<b>\$933.00</b>
Deep Box (No Knockouts)				
40" Wide x 11 1/2"	36X	78 1/4	CBA4042S,F	<b>\$1010.00</b>
Deep Box (No Knockouts)				
40" Wide x 11 1/2"	39X	82 3/8	CBA4045S,F	<b>\$1045.00</b>
Deep Box (No Knockouts)				

<sup>1</sup>Use List Price when enclosure is ordered separately. Enclosure prices cannot be deducted from factory assembled list prices to obtain interior only pricing.

<sup>2</sup>Flush fronts (F) are 2 inches larger than box. Surface fronts (S) are 1/4-inch larger than box.

#### Replacement Panelboard CCB Box<sup>3</sup>

Box Width/Depth	X Height	Box Height (inches)	Product Number	List Price GO-101
31" Wide x 9 1/2"	15X	49	DASW3121	<b>\$359.00</b>
Deep Box (No Knockouts)				
31" Wide x 9 1/2"	21X	57 5/8	DASW3127	<b>\$436.00</b>
Deep Box (No Knockouts)				
31" Wide x 9 1/2"	24X	61 3/4	DASW3130	<b>\$480.00</b>
Deep Box (No Knockouts)				
31" Wide x 9 1/2"	27X	65 7/8	DASW3133	<b>\$659.00</b>
Deep Box (No Knockouts)				
31" Wide x 9 1/2"	30X	70	DASW3136	<b>\$667.00</b>
Deep Box (No Knockouts)				
31" Wide x 9 1/2"	36X	78 1/4	DASW3142	<b>\$787.00</b>
Deep Box (No Knockouts)				
35" Wide x 11 1/2"	33X	74 1/8	DACB3539	<b>\$890.00</b>
Deep Box (No Knockouts)				
35" Wide x 11 1/2"	39X	82 3/8	DACB3545	<b>\$992.00</b>
Deep Box (No Knockouts)				
40" Wide x 11 1/2"	21X	57 5/8	DACB4027	<b>\$770.00</b>
Deep Box (No Knockouts)				
40" Wide x 11 1/2"	24X	61 3/4	DACB4030	<b>\$821.00</b>
Deep Box (No Knockouts)				
40" Wide x 11 1/2"	27X	65 7/8	DACB4033	<b>\$864.00</b>
Deep Box (No Knockouts)				
40" Wide x 11 1/2"	30X	70	DACB4036	<b>\$907.00</b>
Deep Box (No Knockouts)				
40" Wide x 11 1/2"	33X	74 1/8	DACB4039	<b>\$975.00</b>
Deep Box (No Knockouts)				
40" Wide x 11 1/2"	36X	78 1/4	DACB4042	<b>\$1028.00</b>
Deep Box (No Knockouts)				
40" Wide x 11 1/2"	39X	82 3/8	DACB4045	<b>\$1062.00</b>
Deep Box (No Knockouts)				
40" Wide x 11 1/2"	42X	86 1/2	DACB4048	<b>\$1103.00</b>
Deep Box (No Knockouts)				

<sup>3</sup>Use List Price when enclosure is ordered separately. Enclosure prices cannot be deducted from factory assembled list prices to obtain interior only pricing.

Note: Box dimensions are inside dimensions. Add 1/4-inch for outside dimensions. Boxes furnished without knockouts as standard.

#### Filler Plates

Panel Type	X Height	Product Number	List Price GO-143
QMR	1X	QMRFP1	<b>\$74.00</b>
QMR	2X	QMRFP2	<b>\$93.00</b>
QMR	5X	QMRFP5	<b>\$225.00</b>
QMR	3X	75C145005G703	<b>\$77.00</b>
CCB	1X	CCBFP1	<b>\$74.00</b>
CCB	3X	CCBFP3	<b>\$113.00</b>
CCB	5X	CCBFP5	<b>\$225.00</b>
CCB	2X	75C145005G711	<b>\$58.00</b>
CCB	6X	75C145005G715	<b>\$152.00</b>
SCP+	1X	SCPPFP1	<b>\$74.00</b>
SCP+	2X	SCPPFP2	<b>\$93.00</b>
SCP+	3X	SCPPFP3	<b>\$225.00</b>
SCP+	5X	SCPPFP5	<b>\$77.00</b>

(Order from Local Sales Office or Equipment Plant)



# Switchboards and Panelboards

## Spectra® Series Switchboards and Panelboards

### Power

Renewal Parts, Type **CCB** and **QMR** Panelboards. Order through the Customer Service Center unless stated otherwise below.

#### QMR Fusible Switch 240V<sup>1, 2</sup>

Switch Amps	Number of Poles	Description	Product Number	List Price GO-143
30	3	Left Hand Unit	THFP321L	<b>\$693.00</b>
30	3	Right Hand Unit - 3X	THFP321X	<b>\$658.00</b>
60	3	Right Hand Unit	THFP322	<b>\$693.00</b>
60	3	Left Hand Unit	THFP322L	<b>\$693.00</b>
60	3	Right Hand Unit - 3X	THFP322X	<b>\$658.00</b>
60	3	Left Hand Unit - 3X	THFP322XL	<b>\$658.00</b>
100	3	Right Hand Unit	THFP323	<b>\$722.00</b>
100	3	Left Hand Unit	THFP323L	<b>\$722.00</b>
200	3	Center Mount	THFP324	<b>\$1582.00</b>
400	3	Center Mount	THFP325	<b>\$3551.00</b>
600	3	Center Mount	THFP326	<b>\$3945.00</b>

<sup>1</sup>Limited availability. Obsolete when inventory depleted.

<sup>2</sup>Switch and mounting hardware kit must be ordered separately

#### QMR Mounting Hardware Kits Are Copper for Use with Cu or Al Main Bus Dual Mounted

Breaker Frame	Kit Ampere Rating	Voltage	Product Number	List Price GO-143
THFP	30-60A	240 & 600V	THFP62DPK	<b>\$480.00</b>
THFP	100A	600V	THFP63DPKJ	<b>\$436.00</b>
THFP	100A	240 & 600V	THFP63DPK	<b>\$480.00</b>
THFP	100-30/60	600V	THFP63DPKC	<b>\$480.00</b>

Note: QMR Power Panelboards 600V, 100A double branch units require a minimum width of 40". 600V, 30A and 60A double branch, and 240V, 30A, 60A and 100A single and double branch units can be built in a 35" wide enclosure.

#### QMR Mounting Hardware Kits Are Copper for Use with Cu or Al Main Bus Single Mounted

Breaker Frame	Kit Ampere Rating	Voltage	Product Number	List Price GO-143
THFP	30/60A	240V	THFP22SPK	<b>\$302.00</b>
THFP	30/60/100A	240V & 600V	THFP62SPK	<b>\$480.00</b>
THFP	100A	600V	THFP63SPK	<b>\$480.00</b>
THFP	200A	240 & 600V	THFP64SPK	<b>\$988.00</b>
THFP	400A	240 & 600V	THFP65SPK	<b>\$1516.00</b>
THFP	600A	240 & 600V	THFP66SPK	<b>\$1624.00</b>
THFP	1200A	240 & 600V	THFP67SPK	<b>\$2728.00</b>

Note: QMR Power Panelboards 600V, 100A double branch units require a minimum width of 40". 600V, 30A and 60A double branch, and 240V, 30A, 60A and 100A single and double branch units can be built in a 35" wide enclosure.

#### QMR Fusible Switch 600V<sup>1, 2</sup>

Switch Amps	Number of Poles	Description	Product Number	List Price GO-143
30	3	Right Hand Unit	THFP361	<b>\$795.00</b>
30	3	Left Hand Unit	THFP361L	<b>\$795.00</b>
60	3	Right Hand Unit	THFP362	<b>\$795.00</b>
60	3	Left Hand Unit	THFP362L	<b>\$795.00</b>
100	3	Right Hand Unit	THFP363	<b>\$1008.00</b>
100	3	Left Hand Unit	THFP363L	<b>\$1008.00</b>
200	3	Center Mount	THFP364	<b>\$1976.00</b>
400	3	Center Mount	THFP365	<b>\$4777.00</b>
600	3	Center Mount	THFP366	<b>\$4928.00</b>
800	3	Center Mount	THFP367	<b>\$11350.00</b>
1200	3	Center Mount	THFP368	<b>\$11810.00</b>

#### Maximum Horsepower Ratings QMR Fusible Switch

Rating in Amperes <sup>3</sup>	Vac						Vdc		
	2-Pole			3-Pole			2-Pole 3-Pole		
120	240	480	600	240	480	600	125	250	
<b>With Standard and Fuses (Class H)</b>									
30	1 1/2	1 1/2	3	3	3	5	7 1/2	2	5
60	1 1/2	3	5	10	7 1/2	15	15	5	10
100	—	7 1/2	10	15	15	25	30	—	20
200	—	15	25	30	25	50	60	—	40
400	—	—	—	—	50	100	125	—	—
600	—	—	—	—	75	150	200	—	—
<b>With "Time-delay" Fuses (Class H)</b>									
30	2	5	10	15	10	20	20	3	—
60	3	10	20	25	20	40	50	5	—
100	—	15	30	40	30	60	75	—	—
200	—	30	50	50	60	125	150	—	—
400	—	—	—	—	125	250	350	—	—
600	—	—	—	—	200	400	500	—	—

<sup>3</sup>Ratings are based on latest revision of the National Electric Code Article 430.

Horsepower ratings for switches with standard class H fuses are based on one-time fuses having minimum time-delay.

When time-delay fuses are used the horsepower ratings are maximum for the switches.

#### QMR Fusible Switch Terminations<sup>4</sup>

Switch Amperes	Voltage	Wire Range (Cu/Al)	Wires per Lug	Lugs per Phase
30	250/600	#14-10	1	1
60	250/600	#14-2	1	1
100	250/600	#10-1/0	1	1
200	250/600	#6-250kcmil or 2ll/O-250kcmil	1	1
400	250/600	#6-250kcmil or 2ll/O-250kcmil	1	1
600	250/600	250-350kcmil Cu or 350-500kcmil Al	2	2
800	250/600	#4-600kcmil	1	4
1000	250/600	#4-600kcmil	1	4

<sup>4</sup>For optional lugs refer to GEH-460B





# Switchboards and Panelboards

## Spectra® Series Switchboards and Panelboards

### Available Publications

#### Spectra® Series Power Panels Plug-In and Bolt-On

##### Circuit Breaker Mounting Instructions (Modules)

TKM, THKM, TK4V, TKL4V, SKHA, SKLA, SKPA	GEH-5623
TJK, TJD, TJJ, THJK, TJ4V, THJ4V, TJL4V	GEH-5624
TEB, TED, THED, TEL, SEDA, SEHA, SELA, SEPA	GEH-5625
TFJ, TFK, THFK, TFL, SFHA, SFLA, SEPA	GEH-5626
TQD, THQD	GEH-5643
THLC1	GEH-5644
SGDA, SGHA, SGLA, SGPA (3 pole)	GEH-5673
SGDA, SGHA, SGLA, SGPA (2 pole)	GEH-5674
THLC2, THLC4, TLB4 (3 pole)	GEH-5675
THLC2, THLC4, TLB4 (2 pole)	GEH-5676
TEY, THQB, THQB	GEH-5677

##### Circuit Breaker Mounting Hardware Kits

TQD, THQD, SE TEB, TED, THED, THLC1, SF, TFJ, TFK, THFK, SG, TJK, THJK, TJD, TJJ, THLC2, THLC4	GEH-5913
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##### Installing Lugs

Type AML Main Lug Kits	GEH-5588
Type AML Feed Thru Main Lug Kits	GEH-5630

##### Installing Fusible Switches

Fuse Pullers	DEH-034
Class R Fuse Rejector Kit	GEH-4616
R Fuse Rejection Pin, 400-600 Ampere Switch Units	GEH-5577
Lug Kits into GE Type ADS Switches	GEH-5944
Alternate Lugs, 30-1200 Ampere Fusible Switch Units	GEJ-3050

##### Installing Fusible Switch Expansion Kits

30/60 Ampere Expansion Kit	GEH-5547
60A, 100A Expansion Kits for Type ADS Fusible Switch Units	GEH-5581
200 Ampere Expansion Kit (J, T Fuses)	GEH-5582
200 Ampere Expansion Kit (H, K, R Fuses)	GEH-5889

##### Handle and Load Base Replacements on Fusible Switches

Handle Replacement: 400-1200 Ampere Switches	GEH-5553
Load Base Replacement for Type ADS 400-600 Ampere Switches	GEH-5576

##### Miscellaneous

Typical - Fusible Mains and Feeders	DE-166
Technical Data, Spectra Series Panelboards - Pressure Locked Connectors	DE-168

#### Spectra® Series Plug-In (Only)

##### Circuit Breaker Mounting Instructions (Modules)

TKM, THKM, TK4V, TKL4V, SKHA, SKLA, SKPA	GEH-5623
TJK, TJD, TJJ, THJK, TJ4V, THJ4V, TJL4V	GEH-5624
TEB, TED, THED, TEL, SEDA, SEHA, SELA, SEPA	GEH-5625
TFJ, TFK, THFK, TFL, SFHA, SFLA, SEPA	GEH-5626
TQD, THQD	GEH-5643
SGDA, SGHA, SGLA, SGPA (3 pole)	GEH-5673
SGDA, SGHA, SGLA, SGPA (2 pole)	GEH-5674
THLC2, THLC4, TLB4 (3 pole)	GEH-5675

##### Circuit Breaker Mounting Hardware Kits

TQD, THQD, SE TEB, TED, THED, THLC1, SF, TFJ, TFK, THFK, SG, TJK, THJK, TJD, TJJ, THLC2, THLC4	GEH-5913
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##### Installing Lugs

Type AML Main Lug Kits	GEH-5588
Type AML Feed Thru Main Lug Kits	GEH-5630

#### Spectra® Series Plug-In (Only) (continued)

##### Installing Fusible Switches

Fuse Pullers	DEH-034
Class R Fuse Rejector Kit	GEH-4616
R Fuse Rejection Pin, 400-600 Ampere Switch Units	GEH-5577
Lug Kits into GE Type ADS Switches	GEH-5944
Alternate Lugs, 30-1200 Ampere Fusible Switch Units	GEJ-3050

##### Installing Fusible Switch Expansion Kits

30/60 Ampere Expansion Kit	GEH-5547
60A, 100A Expansion Kits for Type ADS Fusible Switch Units	GEH-5581
200 Ampere Expansion Kit (J, T Fuses)	GEH-5582
200 Ampere Expansion Kit (H, K, R Fuses)	GEH-5889

##### Handle and Load Base Replacements on Fusible Switches

Handle Replacement: 400-1200 Ampere Switches	GEH-5553
Load Base Replacement for Type ADS 400-600 Ampere Switches	GEH-5576

##### Miscellaneous

Typical - Fusible Mains and Feeders	DE-166
Technical Data, Spectra Series Panelboards - Pressure Locked Connectors	DE-168

#### Spectra® Series Bolt-On (Only)

##### Circuit Breaker Mounting Instructions (Straps)

TEB, TED, THED, SED, SEH, SEL, SEP	DEH-047
SGH, SFL, SFP	DEH-059
SGH, SGL, SGP	DEH-060
SKH, SKL, SKP, TKM, THKM	DEH-061
TEY	DEH-062
TQD, THQD	DEH-065

#### A-Series® Panelboards

Lighting Panel Rating Labels	DEH-40007
GE Panelboards	DEA-185
Stainless Steel Enclosures	DET-386
AD Plus Lighting Panelboards	DEP-131
UL Recognized Series Connected Ratings	DET-008

#### A-Series® Lighting Control Panel

Lighting Control Panel Catalog/Selection Guide	DEA-388
Fact Sheet	DET-398

#### Pro-Stock Panelboard

Selection and Pricing Guide	DEP-104A
Fact Sheet	DET-233
Product Summary	DEE-240
Initial Stock Order Form	DEZ-176
Branch Breaker Recommended Stock List	DEE-241
Pro-Stock Literature Order Form	DEE-178
Sell Sheet	DEA-232
New Product Commercialization Summary	DEE-240
Q & A	DEQ-068



# Section 5: Lighting Panels

## Table of Contents

### Panelboards

#### A Series

Accessories.....	5-2
Field Installed Kits/Replacement Parts .....	5-2

### Spectra® Series

#### Renewal Parts

Mounting Hardware.....	5-3
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This catalog contains replacement parts, retrofits, accessories, and older generation products. For current generation products, please see the GE BuyLog® or Control Catalog.



# Panelboards

## A-Series® Panelboards

### Accessories

Field Installed Kits/Replacement Parts  
Order By Product Number from Factory

### Enclosures<sup>1</sup>

Panel Size	Box Product Number	Box Size Inches <sup>2</sup>	List Price, <sup>3</sup> GO-134B	Front Product Number <sup>4</sup>	List Price, <sup>3</sup> GO-134B
0-25.5	AB25B	25.5	\$166.00	AF25F,S	\$170.00
28.5-31.5	AB31B	31.5	\$170.00	AF31F,S	\$174.00
34.5-37.5	AB37B	37.5	\$182.00	AF37F,S	\$191.00
40.5-43.5	AB43B	43.5	\$204.00	AF43F,S	\$218.00
46.5-49.5	AB49B	49.5	\$233.00	AF49F,S	\$257.00
52.5-55.5	AB55B	55.5	\$261.00	AF55F,S	\$299.00
57.5-64.5	AB64B	64.5	\$286.00	AF64F,S	\$326.00
67.5-76.5	AB76B	76.5	\$324.00	AF76F,S	\$367.00

<sup>1</sup>"B" suffix provides blank end walls. Order "K" suffix for endwalls with knockouts.

<sup>2</sup>Standard boxes are 20" wide by 5.81 inches deep.

<sup>3</sup>Use when ordering items separately for replacement. Do not deduct from panel list price to obtain interior only pricing.

<sup>4</sup>Flush fronts are 1 1/2" larger than box. Surface fronts are 1/4" larger.

### Box Options

Description	Product Number Suffix <sup>5</sup>	List Price, GO-101
Painted Box	P	\$200.00
30" wide <sup>6</sup>	W	\$250.00
NEMA 3R/12/4S/4X	3	\$950.00
NEMA 4X (Stainless Steel)	4S	\$4950.00

<sup>5</sup>Add to base box product number.

<sup>6</sup>Includes field installable gutter barrier.

### Front Options

Description	Product Number Suffix <sup>7</sup>	List Price, GO-101
Screw cover	C	\$61.00
Front hinged to box	D	\$110.00
Optional Locks:		
Yale 5116 w/Rosette	Y	\$300.00
Corbin 15767	L	\$146.00
GE 75 Key Lock	E	\$80.00
Corbin 60 Key Lock	J	\$80.00
Door within a door <sup>8</sup>	P	\$238.00
Stainless steel <sup>9</sup>	S	\$1467.00
30" wide	W	\$82.00
Nameplate	N	\$27.00
Screw on nameplate	U	\$74.00
Metal directory	M	\$50.00

<sup>7</sup>Add to base front product number.

<sup>8</sup>Consists of two lockable doors—one over panel interior and one over box wiring gutters. Yale locks not available.

<sup>9</sup>Flush only. Available with C and N options.

### THQB/THHQB/THQL/THHQL/TEY Filler Plates

Product Number	List Price GO-137A
TQLFP1	\$2.50

### TQD/THQD/TED4/SE/FB Filler Plates

Product Number	List Price GO-101
TEDFP1	\$1.00

### Breaker Mounting<sup>10</sup> Hardware Kits

Product Number	List Price GO-134B
ASPTED3P (Breaker type TED/THED4/SE)	\$83.50
ASPTQD3P (Breaker type TQD/THQD)	\$83.50
ASPFB12P (Breaker type FB)	\$20.00 <sup>11</sup>

<sup>10</sup>Use to mount breaker in existing space.

<sup>11</sup>GO-101.

### Stainless Steel Enclosures for GE Lighting Panels

Dimensions (inches)			Product Number <sup>12</sup>		List Price Each GO-134B
H	W	D	UL Standard	CSA Labeled	
25.5	20	6	AB254S	AB254AS	\$1245.00
25.5	30	8	AB254DWS	AB254DWAS	\$1305.00
31.5	20	6	AB314S	AB314AS	\$1475.00
31.5	30	8	AB314DWS	AB314DWAS	\$1550.00
37.5	20	6	AB374S	AB374AS	\$1730.00
37.5	30	8	AB374DWS	AB374DWAS	\$1815.00
43.5	20	6	AB434S	AB434AS	\$1955.00
43.5	30	8	AB434DWS	AB434DWAS	\$2055.00
49.5	20	6	AB494S	AB494AS	\$2185.00
49.5	30	8	AB494DWS	AB494DWAS	\$2295.00
55.5	20	6	AB554S	AB554AS	\$2245.00
55.5	30	8	AB554DWS	AB554DWAS	\$2570.00
64.5	20	6	AB644S	AB644AS	\$2785.00
64.5	30	8	AB644DWS	AB644DWAS	\$2925.00
76.5	20	6	AB764S	AB764AS	\$3265.00
76.5	30	8	AB764DWS	AB764DWAS	\$3430.00

<sup>12</sup>DW in product number indicates enclosure is 30" wide and 8" deep.



# Panelboards

## Spectra® Series Panelboards

### Renewal Parts

#### Mounting Hardware

Order from the Customer Service Center

#### Endwall Kits

Field installed. For standard 20"w x 5.81"d boxes.

Product Number	Description	Qty.	List Price GO-134B
ABEW2	Blank	1	\$31.00
AKEW2	Knockout	1	\$21.00

#### Panelboards Parts

Description	Product Number	List Price, GO-101
Directory Card	139C5612P3	\$2.00
Replacement Lock with Std. Key	569B737P1	\$22.00
Replacement Lock with GE75 Key	569B737P2	\$22.00
Additional Keys for Above Lock	569B737P5	\$2.00
Circuit Numbering Strips-		
1-48	569B806G1	\$4.00
49-84	569B806G2	\$4.00
85-126	569B806G3	\$4.00
Adhesive Backed Lamicoid Nameplate 3/4 in. x 3 in.	315A7190P1	\$27.00
Metal Directory Card Holder	139C5491G1	\$50.00
Directory Card Holder	139C5491P4	\$10.00
Delta Hi-leg Conversion Kit, to Add B-Phase		
Plug on AL Panels	APHBL	\$60.00
Bolt on AE/AQ Panels	APHBQ	\$60.00
NEMA 3R/12 Tamper Proof Tork Screw Kit	NEMATRX	\$30.00
2P to 3P TQD Conv. Kit	ASP2PTQD3P	\$100.00
2P to 3P SF Conv. Kit for horizontal subfeed	ASP2PTFJ3P	\$100.00
AD 25 to 65 kAIC Barrier kit	ASP25AD65KA <sup>1</sup>	\$100.00
Service Entrance Kit	ASPSERENT	\$50.00
2 wire Relay Kit	ASP2WRelay	\$286.00
Yale Lock Kit	ASPYALE47	\$120.00
Corbin Lock Kit	ASPCORBNTU1	\$120.00
2-3 pole TQD Mechanical Interlock	TQDFM1	\$120.00
AQ/AL/AE Rail Bracket	ASPAQLEBKT	\$20.00
Front Flush Adjust Kit	ASPFLUSHADJ	\$20.00
AE Front Mounting Kit	139C5720G3	\$30.00
AQ/AL Front Mounting Kit	139C5720G6	\$30.00
AD Front Mounting Kit	139C5720G9	\$30.00
Front Hinge to Box Mounting Kit	139C5700G6	\$20.00
Front Extension Mounting Kit	139C5700G11	\$20.00

<sup>1</sup>Included in factory assembled panels—AD panels with Spectra® branch breakers.

#### Permanent Circuit Number Kits

Product Number		Description	List Price, GO-134B
AQ, AL, AE	AD		
APN48	APN48AD	No's 1-48	\$116.00
APN84	APN84AD	No's 43-84	\$116.00
APN126	APN126AD	No's 85-126	\$116.00

#### Available Publications

DEA - 185



Replacement Lock with Standard Key



Replacement Lock with GE75 Key

#### Box Extensions

Bolts to A-SERIES® box with or without box endwall in place. Extensions can be combined to obtain lengths greater than 18 and 24 inches.

Box Width and Depth	Box Mounting	Box Extension Length (Inches)	Box Extension Product Number	List Price, GO-101
20 x 5.81	Flush	9	ABX2509F	\$145.00
		18	ABX2518F	\$167.00
		24	ABX2524F	\$194.00
		9	ABX2509S	\$145.00
		18	ABX2518S	\$167.00
		24	ABX2524S	\$194.00
	Surface	31	ABX2531S	\$220.00
		37	ABX2537S	\$240.00
		43	ABX2543S	\$271.00
		49	ABX2549S	\$311.00
		55	ABX2555S	\$358.00
		64	ABX2564S	\$353.00
30 x 5.81	Flush	76	ABX2576S	\$440.00
		18	ABX3518F	\$194.00
		24	ABX3524F	\$223.00
	Surface	18	ABX3518S	\$194.00
		24	ABX3524S	\$223.00
		24	ABX3524S	\$223.00
30 x 7.81	Flush	18	ABX3718F	\$223.00
		24	ABX3724F	\$250.00
	Surface	18	ABX3718S	\$223.00
		24	ABX3724S	\$250.00

#### Box Extensions Covers Only

10 covers per kit.

Description	Product Number	List Price, GO-101
9" Covers Surface	ASPABX09S	\$145.00
9" Covers Flush	ASPABX09F	\$155.00
18" Covers Surface	ASPABX18S	\$285.00
18" Covers Flush	ASPABX18F	\$300.00
64" to 76" Covers Surface	ASPABX20S	\$300.00
64" to 76" Covers Flush	ASPABX20F	\$300.00





# Section 6: Busway

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This catalog contains replacement parts, retrofits, accessories, and older generation products. For current generation products, please see the GE BuyLog® or Control Catalog.



# Busway History/Timeline

## Busway History/Timeline

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1946-2002	FVA/FVK
1955-71	DE
1955-75	VD/LVDP
1958-92	LW
1958-present	DH
1958-present	LTG
1965-91	Armor-Clad
1989-present	Spectra Series
1995-present	Spectra Series LowAmp

This catalog contains replacement parts, retrofits, accessories, and older generation products. For current generation products, please see the GE BuyLog® or Control Catalog.



# Busway General

General Electric is a world leader in busway manufacturing and design, providing a wide range of busway types available from 30 to 5000 amperes and up to 600 Volts ac.

GE busway has many advantages over wire and conduit:

- Lower total installed cost. Busway material costs are often equal or less than wire and conduit, and contractors can install busway in a fraction of the time.
- Lower life cycle cost. Busway components can be added, deleted, or relocated one month or even many years after the initial installation, saving time and money.
- Predictable characteristics. Busway systems conform to common standards. Consultants can use readily published data on busway short-circuit ratings, voltage drop, weights and dimensions in the planning stage of an electrical project.
- Can save considerable space in tight electrical closets and existing buildings.

## Busway Product Lines

- Spectra® Series**...225-5000 amperes
- Spectra® Series LowAmp**...225-800 amperes
- DH**...100 amperes
- LW**...(Replacement parts only)
- LTG**...50 amperes, 300 Volts ac/dc
- Armor-Clad**...(Replacement parts only)
- FVA/FVK**...225-1000 amperes
- LVD/LVDP**...(Replacement parts only)
- DNSP**...(Call GE Consumer & Industrial—Sales Office for information.)

## Usage Considerations

Busway is not designed for use in highly corrosive atmospheres such as battery rooms or in classified hazardous locations where it could be subject to mechanical damage. Busway is not designed to be embedded in the ground or in concrete and should be used only for exposed work. However, most inspection authorities consider the space above ceiling to be accessible, provided the ceiling panels are readily removable.

## Ambient Temperature

GE busway is rated based on a 55° hot spot temperature rise over a maximum ambient of 40°C. The busway should be derated for high ambient temperatures.

## Thermal Expansion

Give consideration to the effects of thermal expansion on busway runs. Compensation for thermal expansion is inherent in DH busway. For other busway types, expansion fittings may be necessary for long straight runs of 150 feet or more, particularly if the busway is not free to move at the ends of the run. The use of an expansion fitting is recommended when the busway run crosses a building expansion joint.

## Standards

There are published standards for all types of low-voltage busway. GE busway conforms to the latest revision of NEMA Standard BU 1, UL standard 857 Federal Specification W-B-811b, CSA. GE busway bears the UL label except where otherwise noted.

## High-Frequency Applications

GE busway can be used at higher than 60-cycle frequency, but in most cases it is necessary to derate the busway. In most busway, the voltage drop increases at higher frequencies.

## Short-Circuit Ratings

All busway with a UL label must be marked with a UL listed short-circuit rating. UL short-circuit ratings apply to “all” busway and associated fittings such as straight lengths, elbows, tees, tap boxes, power takeoffs, and plugs which are necessary for a busway installation. Ratings without a ground bar are established by tests which require the housing and housing joints to provide a satisfactory ground return.

The short-circuit rating of fittings with protective devices which are part of the busway, such as power takeoffs and reducers, is equal to the lower of the short-circuit rating of the protective device or the busway with which the fitting is used. For example, a fusible power takeoff rated with 200,000 amperes with Class J fuses when installed on a busway rated 65,000 amperes would have a rating of 65,000 amperes.

The short-circuit rating of a busway plug is equal to the short-circuit rating of the fuse or circuit breaker used in the plug.

## Busway Publications:

Spectra® Series Busway vs. Wire and Conduit	GEA-12111
Spectra® Series Busway	GET-7005E
Spectra® Series Busway Installation Instructions	DEH-40087C
Spectra® Series LowAmp Busway	GET-8063
Spectra® Series LowAmp Busway Installation Instructions	GEH-6436
Spectra® Series LowAmp Busway vs. Major Competitive Manufacturers	DEC-023
Spectra® Series LowAmp Busway Fact Sheet	DET-103
GE Type DH Plug-In or Feeder Busway	GET-9001A
GE Type DH Busway Installation Instructions	GEH-6437
Spectra® Series Busway—Short Time Heating Limits	GES-9508
Spectra® Series Busway, 600-5000 Amp Bus Bar Sizing	GEZ-7726
Spectra® Series Busway vs. Major Competitor Manufacturers	GEZ-7736
Labor Estimating Manual (Busway)	GEZ-7737
Insulation Integrity	DE-171
Spectra® Series Outdoor Busway	
Installation Video	DEV-051A
Installation DVD	DEV-066
Busway Tool Kit	DEU-060





# Busway Short-Circuit Ratings

## Spectra® Series Busway

### Short-Circuit Ratings Plug-In and Feeder

Amperage	Aluminum (kA) @				Copper (kA) @			
	3 Cycles	6 Cycles	1 Sec.	3* Secs.	3 Cycles	6 Cycles	1 Sec.	3* Secs.
225	50	50	24	14	50	50	36	21
400	85	85	24	14	50	50	36	21
600	85	85	24	14	85	85	36	21
800	100	100	42	24	85	85	36	21
1000	100	100	50	29	100	100	51	29
1200	125	125	62	36	100	100	65	37
1350	150	150	84	49	100	100	76	44
1600	150	150	95	55	125	125	95	55
2000	150	150	121	70	150	150	129	75
2500	200	200	132	76	150	150	162	107
3000	200	200	169*	97	200	200	191*	110
4000	200	200	200*	140	200	200	200*	149
5000	—	—	—	—	200	200	200*	200

\*Ratings based on calculated values

## Spectra® LowAmp Busway

### Plug-In and Feeder Bus

Amp Rating	Aluminum (kA) @			Copper (kA) @		
	3 Cycles	1 Sec.	3 Secs.	3 Cycles	1 Sec.	3 Secs.
225	30	11	6	30	17	10
400	42	17	10	30	17	10
600	50	28	16	42	25	15
800	50	50	29	50	42	24

## Flex-A-Power® Type DH Busway<sup>2</sup>

Type DH Busway has been tested in accordance with NEMA test procedures, to a maximum short-circuit rating of 14,000 rms amperes symmetrical. When properly protected by a maximum 100 ampere UL listed Class K-1, K-5, or J fuses, the DH Busway may be applied to a system with a short-circuit available up to the UL listed short-circuit rating of the fuses.

<sup>2</sup>The adjustable straight length is rated 10 kA.

## Maximum Fuse Sizes for Increased Short-Circuit Protection

Amperage	Aluminum	Copper	Max "L" Fuse Sizes For Increased Short-Circuit Rating	
			@100 kA	@200 kA
225	225	225	1200 <sup>1</sup>	800 <sup>1</sup>
400	400	400	1200 <sup>1</sup>	800 <sup>1</sup>
—	—	600	1200 <sup>1</sup>	800 <sup>1</sup>
600	—	800	2000 <sup>1</sup>	1200 <sup>1</sup>
—	—	1000	—	2000 <sup>1</sup>
800	800	1200	—	2500 <sup>1</sup>
1000	1000	1350	—	2500 <sup>1</sup>
1200	1200	1600	—	3000 <sup>1</sup>
1350	1350	2000	—	4000 <sup>1</sup>
1600	1600	—	—	4000 <sup>1</sup>
2000	2000	2500	—	4000 <sup>1</sup>

<sup>1</sup>Also 600J, 800T or 400R.

## Maximum Fuse Sizes for Increased Short-Circuit Protection

Amperage	Max. Fuse Sizes For Increased Short-Circuit Rating					
	@100 kA			@200 kA		
	Class J	Class T	Class R	Class J	Class T	Class R
Aluminum						
225	600	800	100	400	400	200
400	600	800	400	600	800	400
600	600	800	600	600	800	400
800	600	800	600	600	800	400
Copper						
225	600	800	200	400	400	200
400	600	800	200	400	400	200
600	600	800	400	600	800	400
800	600	800	600	600	800	400



# Busway Spectra® RMS

Sandwich Bus, Circuit Breaker Busway Plugs

## Features and Benefits

- Rating Plug: simplifies factory floor and equipment changeovers because plug has trip amp interchangeability.
- True Digital rms Sensing: more accurate and reliable trip interruption.
- High Interrupting Rating: satisfies high IC requirements up to 100 kAIC @ 480V.
- UL listed and CSA Certified for heat rise, short-circuit, and ground fault.
- Interlocks and Safety Features: door interlock, plug interlock, ground contact before stab contact, and plug assist<sup>1</sup> for mechanical installation.

## Low-Tier Frames Three-Phase, Three-Wire SEDGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
15	18	14	14	SB31SEGDG	\$1506.00
20	18	14	14	SB32SEGDG	\$1506.00
30	18	14	14	SB33SEGDG	\$1506.00
40	18	14	14	SB34SEGDG	\$1506.00
50	18	14	14	SB35SEGDG	\$1506.00
60	18	14	14	SB36SEGDG	\$1506.00
70	18	14	14	SB37SEGDG	\$1658.00
80	18	14	14	SB38SEGDG	\$1658.00
90	18	14	14	SB39SEGDG	\$1658.00
100	18	14	14	SB310SEGDG	\$1658.00
110	18	14	14	SB311SEGDG	\$3872.00
125	18	14	14	SB312SEGDG	\$3872.00
150	18	14	14	SB315SEGDG	\$3872.00

## Low-Tier Frames Three-Phase, Three-Wire SEHGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
15	65	25	18	SB31SEHG	\$1908.00
20	65	25	18	SB32SEHG	\$1908.00
30	65	25	18	SB33SEHG	\$1908.00
40	65	25	18	SB34SEHG	\$1908.00
50	65	25	18	SB35SEHG	\$1908.00
60	65	25	18	SB36SEHG	\$1908.00
70	65	25	18	SB37SEHG	\$2168.00
80	65	25	18	SB38SEHG	\$2168.00
90	65	25	18	SB39SEHG	\$2168.00
100	65	25	18	SB310SEHG	\$2168.00
110	65	25	18	SB311SEHG	\$4326.00
125	65	25	18	SB312SEHG	\$4326.00
150	65	25	18	SB315SEHG	\$4326.00

<sup>1</sup>Optional for E Frame plugs.

Notes: Breakers must be factory-installed. IC rating in rms symmetrical kA.

## Low-Tier Frames Three-Phase, Three-Wire SFHGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
70	65	25	18	SB37SFHG	\$4326.00
90	65	25	18	SB39SFHG	\$4326.00
100	65	25	18	SB310SFHG	\$4326.00
110	65	25	18	SB311SFHG	\$4326.00
125	65	25	18	SB312SFHG	\$4326.00
150	65	25	18	SB315SFHG	\$4326.00
175	65	25	18	SB317SFHG	\$4326.00
200	65	25	18	SB320SFHG	\$4326.00
225	65	25	18	SB322SFHG	\$4326.00
250	65	25	18	SB325SFHG	\$4326.00

## Low-Tier Frames Three-Phase, Three-Wire SGH4GA (400A)

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
125	65	35	25	SB312SGH4G	\$7512.00
150	65	35	25	SB315SGH4G	\$7512.00
175	65	35	25	SB317SGH4G	\$7512.00
200	65	35	25	SB320SGH4G	\$7512.00
225	65	35	25	SB322SGH4G	\$7512.00
250	65	35	25	SB325SGH4G	\$7512.00
300	65	35	25	SB330SGH4G	\$7512.00
350	65	35	25	SB335SGH4G	\$7512.00
400	65	35	25	SB340SGH4G	\$7512.00

## Low-Tier Frames Three-Phase, Three-Wire SGH6GA (600A)

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
250	65	35	25	SB325SGH6G	\$10112.00
300	65	35	25	SB330SGH6G	\$10112.00
350	65	35	25	SB335SGH6G	\$10112.00
400	65	35	25	SB340SGH6G	\$10112.00
450	65	35	25	SB345SGH6G	\$10112.00
500	65	35	25	SB350SGH6G	\$10112.00
600	65	35	25	SB360SGH6G	\$10112.00

## Low-Tier Frames Three-Phase, Three-Wire SKHGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
300	65	50	25	SB330SKHG	\$12448.00
400	65	50	25	SB340SKHG	\$12448.00
500	65	50	25	SB350SKHG	\$12448.00
600	65	50	25	SB360SKHG	\$12448.00
700	65	50	25	SB370SKHG	\$12448.00
800	65	50	25	SB380SKHG	\$12448.00



# Busway Spectra® RMS (continued)

Sandwich Bus, Circuit Breaker Busway Plugs

## Low-Tier Frames Three-Phase, Four-Wire SEDGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
15	18	14	14	SB41SEGD	\$1636.00
20	18	14	14	SB42SEGD	\$1636.00
30	18	14	14	SB43SEGD	\$1636.00
40	18	14	14	SB44SEGD	\$1636.00
50	18	14	14	SB45SEGD	\$1636.00
60	18	14	14	SB46SEGD	\$1636.00
70	18	14	14	SB47SEGD	\$1788.00
80	18	14	14	SB48SEGD	\$1788.00
90	18	14	14	SB49SEGD	\$1788.00
100	18	14	14	SB410SEGD	\$1788.00
110	18	14	14	SB411SEGD	\$4002.00
125	18	14	14	SB412SEGD	\$4002.00
150	18	14	14	SB415SEGD	\$4002.00

## Low-Tier Frames Three-Phase, Four-Wire SEHGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
15	65	25	18	SB41SEHG	\$2038.00
20	65	25	18	SB42SEHG	\$2038.00
30	65	25	18	SB43SEHG	\$2038.00
40	65	25	18	SB44SEHG	\$2038.00
50	65	25	18	SB45SEHG	\$2038.00
60	65	25	18	SB46SEHG	\$2038.00
70	65	25	18	SB47SEHG	\$2194.00
80	65	25	18	SB48SEHG	\$2194.00
90	65	25	18	SB49SEHG	\$2194.00
100	65	25	18	SB410SEHG	\$2194.00
110	65	25	18	SB411SEHG	\$4444.00
125	65	25	18	SB412SEHG	\$4444.00
150	65	25	18	SB415SEHG	\$4444.00

## Low-Tier Frames Three-Phase, Four-Wire SFHGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
70	65	25	18	SB47SFHG	\$4444.00
90	65	25	18	SB49SFHG	\$4444.00
100	65	25	18	SB410SFHG	\$4444.00
110	65	25	18	SB411SFHG	\$4444.00
125	65	25	18	SB412SFHG	\$4444.00
150	65	25	18	SB415SFHG	\$4444.00
175	65	25	18	SB417SFHG	\$4444.00
200	65	25	18	SB420SFHG	\$4444.00
225	65	25	18	SB422SFHG	\$4444.00
250	65	25	18	SB425SFHG	\$4444.00

## Low-Tier Frames Three-Phase, Four-Wire SGH4GA (400A)

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
125	65	35	25	SB412SGH4G	\$8292.00
150	65	35	25	SB415SGH4G	\$8292.00
175	65	35	25	SB417SGH4G	\$8292.00
200	65	35	25	SB420SGH4G	\$8292.00
225	65	35	25	SB422SGH4G	\$8292.00
250	65	35	25	SB425SGH4G	\$8292.00
300	65	35	25	SB430SGH4G	\$8292.00
350	65	35	25	SB435SGH4G	\$8292.00
400	65	35	25	SB440SGH4G	\$8292.00

## Low-Tier Frames Three-Phase, Four-Wire SGH6GA (600A)

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
250	65	35	25	SB425SGH6G	\$10632.00
300	65	35	25	SB430SGH6G	\$10632.00
350	65	35	25	SB435SGH6G	\$10632.00
400	65	35	25	SB440SGH6G	\$10632.00
450	65	35	25	SB445SGH6G	\$10632.00
500	65	35	25	SB450SGH6G	\$10632.00
600	65	35	25	SB460SGH6G	\$10632.00

## Low-Tier Frames Three-Phase, Four-Wire SKHGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
300	65	50	25	SB430SKHG	\$12968.00
400	65	50	25	SB440SKHG	\$12968.00
500	65	50	25	SB450SKHG	\$12968.00
600	65	50	25	SB460SKHG	\$12968.00
700	65	50	25	SB470SKHG	\$12968.00
800	65	50	25	SB480SKHG	\$12968.00

## Mid-Tier Frames Three-Phase, Three-Wire SELGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
15	100	65	25	SB31SELG	\$2910.00
20	100	65	25	SB32SELG	\$2910.00
30	100	65	25	SB33SELG	\$2910.00
40	100	65	25	SB34SELG	\$2910.00
50	100	65	25	SB35SELG	\$2910.00
60	100	65	25	SB36SELG	\$2910.00
70	100	65	25	SB37SELG	\$3430.00
80	100	65	25	SB38SELG	\$3430.00
90	100	65	25	SB39SELG	\$3430.00
100	100	65	25	SB310SELG	\$3430.00
110	100	65	25	SB311SELG	\$7252.00
125	100	65	25	SB312SELG	\$7252.00
150	100	65	25	SB315SELG	\$7252.00

## Mid-Tier Frames Three-Phase, Three-Wire SFLGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
70	100	65	25	SB37SFLG	\$7768.00
90	100	65	25	SB39SFLG	\$7768.00
100	100	65	25	SB310SFLG	\$7768.00
110	100	65	25	SB311SFLG	\$7768.00
125	100	65	25	SB312SFLG	\$7768.00
150	100	65	25	SB315SFLG	\$7768.00
175	100	65	25	SB317SFLG	\$7768.00
200	100	65	25	SB320SFLG	\$7768.00
225	100	65	25	SB322SFLG	\$7768.00
250	100	65	25	SB325SFLG	\$7768.00

6 Busway



# Busway Spectra® RMS (continued)

## Sandwich Bus, Circuit Breaker Busway Plugs

### Mid-Tier Frames Three-Phase, Three-Wire SGL4GA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
125	100	65	65	SB312SGL4G	\$11152.00
150	100	65	65	SB315SGL4G	\$11152.00
175	100	65	65	SB317SGL4G	\$11152.00
200	100	65	65	SB320SGL4G	\$11152.00
225	100	65	65	SB322SGL4G	\$11152.00
250	100	65	65	SB325SGL4G	\$11152.00
300	100	65	65	SB330SGL4G	\$11152.00
350	100	65	65	SB335SGL4G	\$11152.00
400	100	65	65	SB340SGL4G	\$11152.00

### Mid-Tier Frames Three-Phase, Four-Wire SFLGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
70	100	65	25	SB47SFLG	\$8054.00
90	100	65	25	SB49SFLG	\$8054.00
100	100	65	25	SB410SFLG	\$8054.00
110	100	65	25	SB411SFLG	\$8054.00
125	100	65	25	SB412SFLG	\$8054.00
150	100	65	25	SB415SFLG	\$8054.00
175	100	65	25	SB417SFLG	\$8054.00
200	100	65	25	SB420SFLG	\$8054.00
225	100	65	25	SB422SFLG	\$8054.00
250	100	65	25	SB425SFLG	\$8054.00

### Mid-Tier Frames Three-Phase, Three-Wire SGL6GA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
250	100	65	65	SB325SGL6G	\$12838.00
300	100	65	65	SB330SGL6G	\$12838.00
350	100	65	65	SB335SGL6G	\$12838.00
400	100	65	65	SB340SGL6G	\$12838.00
450	100	65	65	SB345SGL6G	\$12838.00
500	100	65	65	SB350SGL6G	\$12838.00
600	100	65	65	SB360SGL6G	\$12838.00

### Mid-Tier Frames Three-Phase, Four-Wire SGL4GA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
125	100	65	65	SB412SGL4G	\$11932.00
150	100	65	65	SB415SGL4G	\$11932.00
175	100	65	65	SB417SGL4G	\$11932.00
200	100	65	65	SB420SGL4G	\$11932.00
225	100	65	65	SB422SGL4G	\$11932.00
250	100	65	65	SB425SGL4G	\$11932.00
300	100	65	65	SB430SGL4G	\$11932.00
350	100	65	65	SB435SGL4G	\$11932.00
400	100	65	65	SB440SGL4G	\$11932.00

### Mid-Tier Frames Three-Phase, Three-Wire SKLGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
300	100	65	42	SB330SKLG	\$21032.00
400	100	65	42	SB340SKLG	\$21032.00
500	100	65	42	SB350SKLG	\$21032.00
600	100	65	42	SB360SKLG	\$21032.00
700	100	65	42	SB370SKLG	\$21032.00
800	100	65	42	SB380SKLG	\$21032.00

### Mid-Tier Frames Three-Phase, Four-Wire SGL6GA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
250	100	65	65	SB425SGL6G	\$13358.00
300	100	65	65	SB430SGL6G	\$13358.00
350	100	65	65	SB435SGL6G	\$13358.00
400	100	65	65	SB440SGL6G	\$13358.00
450	100	65	65	SB445SGL6G	\$13358.00
500	100	65	65	SB450SGL6G	\$13358.00
600	100	65	65	SB460SGL6G	\$13358.00

### Mid-Tier Frames Three-Phase, Four-Wire SELGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
15	100	65	25	SB41SELG	\$3170.00
20	100	65	25	SB42SELG	\$3170.00
30	100	65	25	SB43SELG	\$3170.00
40	100	65	25	SB44SELG	\$3170.00
50	100	65	25	SB45SELG	\$3170.00
60	100	65	25	SB46SELG	\$3170.00
70	100	65	25	SB47SELG	\$3690.00
80	100	65	25	SB48SELG	\$3690.00
90	100	65	25	SB49SELG	\$3690.00
100	100	65	25	SB410SELG	\$3690.00
110	100	65	25	SB411SELG	\$7512.00
125	100	65	25	SB412SELG	\$7512.00
150	100	65	25	SB415SELG	\$7512.00

### Mid-Tier Frames Three-Phase, Four-Wire SKLGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
300	100	65	42	SB430SKLG	\$21812.00
400	100	65	42	SB440SKLG	\$21812.00
500	100	65	42	SB450SKLG	\$21812.00
600	100	65	42	SB460SKLG	\$21812.00
700	100	65	42	SB470SKLG	\$21812.00
800	100	65	42	SB480SKLG	\$21812.00

Notes: Breakers must be factory-installed. IC rating in rms symmetrical kA.



# Busway Spectra® RMS (continued)

Sandwich Bus, Circuit Breaker Busway Plugs

## Peak-Tier Frames Three-Phase, Three-Wire SEPGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
15	200	100	25	SB31SEPG	\$4002.00
20	200	100	25	SB32SEPG	\$4002.00
30	200	100	25	SB33SEPG	\$4002.00
40	200	100	25	SB34SEPG	\$4002.00
50	200	100	25	SB35SEPG	\$4002.00
60	200	100	25	SB36SEPG	\$4002.00
70	200	100	25	SB37SEPG	\$4782.00
80	200	100	25	SB38SEPG	\$4782.00
90	200	100	25	SB39SEPG	\$4782.00
100	200	100	25	SB310SEPG	\$4782.00
110	200	100	25	SB311SEPG	\$9982.00
125	200	100	25	SB312SEPG	\$9982.00
150	200	100	25	SB315SEPG	\$9982.00

## Peak-Tier Frames Three-Phase, Three-Wire SFPGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
70	200	100	25	SB37SFPG	\$10368.00
90	200	100	25	SB39SFPG	\$10368.00
100	200	100	25	SB310SFPG	\$10368.00
110	200	100	25	SB311SFPG	\$10368.00
125	200	100	25	SB312SFPG	\$10368.00
150	200	100	25	SB315SFPG	\$10368.00
175	200	100	25	SB317SFPG	\$10368.00
200	200	100	25	SB320SFPG	\$10368.00
225	200	100	25	SB322SFPG	\$10368.00
250	200	100	25	SB325SFPG	\$10368.00

## Peak-Tier Frames Three-Phase, Three-Wire SGP4GA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
125	200	100	65	SB312SGP4G	\$15438.00
150	200	100	65	SB315SGP4G	\$15438.00
175	200	100	65	SB317SGP4G	\$15438.00
200	200	100	65	SB320SGP4G	\$15438.00
225	200	100	65	SB322SGP4G	\$15438.00
250	200	100	65	SB325SGP4G	\$15438.00
300	200	100	65	SB330SGP4G	\$15438.00
350	200	100	65	SB335SGP4G	\$15438.00
400	200	100	65	SB340SGP4G	\$15438.00

## Peak-Tier Frames Three-Phase, Three-Wire SGP6GA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
250	200	100	65	SB325SGP6G	\$17258.00
350	200	100	65	SB335SGP6G	\$17258.00
400	200	100	65	SB340SGP6G	\$17258.00
450	200	100	65	SB345SGP6G	\$17258.00
500	200	100	65	SB350SGP6G	\$17258.00
600	200	100	65	SB360SGP6G	\$17258.00

## Peak-Tier Frames Three-Phase, Three-Wire SKPGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
300	200	100	25	SB330SKPG	\$24802.00
400	200	100	25	SB340SKPG	\$24802.00
500	200	100	25	SB350SKPG	\$24802.00
600	200	100	25	SB360SKPG	\$24802.00
700	200	100	25	SB370SKPG	\$24802.00
800	200	100	25	SB380SKPG	\$24802.00

## Peak-Tier Frames Three-Phase, Four-Wire SEPGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
15	200	100	25	SB41SEPG	\$4262.00
20	200	100	25	SB42SEPG	\$4262.00
30	200	100	25	SB43SEPG	\$4262.00
40	200	100	25	SB44SEPG	\$4262.00
50	200	100	25	SB45SEPG	\$4262.00
60	200	100	25	SB46SEPG	\$4262.00
70	200	100	25	SB47SEPG	\$5042.00
80	200	100	25	SB48SEPG	\$5042.00
90	200	100	25	SB49SEPG	\$5042.00
100	200	100	25	SB410SEPG	\$5042.00
110	200	100	25	SB411SEPG	\$10242.00
125	200	100	25	SB412SEPG	\$10242.00
150	200	100	25	SB415SEPG	\$10242.00

## Peak-Tier Frames Three-Phase, Four-Wire SFPGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
70	200	100	25	SB47SFPG	\$10654.00
90	200	100	25	SB49SFPG	\$10654.00
100	200	100	25	SB410SFPG	\$10654.00
110	200	100	25	SB411SFPG	\$10654.00
125	200	100	25	SB412SFPG	\$10654.00
150	200	100	25	SB415SFPG	\$10654.00
175	200	100	25	SB417SFPG	\$10654.00
200	200	100	25	SB420SFPG	\$10654.00
225	200	100	25	SB422SFPG	\$10654.00
250	200	100	25	SB425SFPG	\$10654.00

## Peak-Tier Frames Three-Phase, Four-Wire SGP4GA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
125	200	100	65	SB412SGP4G	\$15698.00
150	200	100	65	SB415SGP4G	\$15698.00
175	200	100	65	SB417SGP4G	\$15698.00
200	200	100	65	SB420SGP4G	\$15698.00
225	200	100	65	SB422SGP4G	\$15698.00
250	200	100	65	SB425SGP4G	\$15698.00
300	200	100	65	SB430SGP4G	\$15698.00
350	200	100	65	SB435SGP4G	\$15698.00
400	200	100	65	SB440SGP4G	\$15698.00

Notes: Breakers must be factory-installed. IC rating in rms symmetrical kA.



# Busway Spectra® RMS (continued)

## Sandwich Bus, Circuit Breaker Busway Plugs

### Peak-Tier Frames Three-Phase, Four-Wire SGP6GA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
250	200	100	65	SB425SGP6G	\$17778.00
350	200	100	65	SB435SGP6G	\$17778.00
400	200	100	65	SB440SGP6G	\$17778.00
450	200	100	65	SB445SGP6G	\$17778.00
500	200	100	65	SB450SGP6G	\$17778.00
600	200	100	65	SB460SGP6G	\$17778.00

### Peak-Tier Frames Three-Phase, Four-Wire SKPGA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600 V (kAIC)	Product Number	List Price GO-114M
300	200	100	25	SB430SKPG	\$25582.00
400	200	100	25	SB440SKPG	\$25582.00
500	200	100	25	SB450SKPG	\$25582.00
600	200	100	25	SB460SKPG	\$25582.00
700	200	100	25	SB470SKPG	\$25582.00
800	200	100	25	SB480SKPG	\$25582.00

### Without Rating Plug Three-Phase, Three-Wire

Frame Type	Trip Amps	Product Number	List Price GO-114M
SEDGA	15-30	SB301SEDDG	\$1376.00
SEDGA	40-60	SB302SEDDG	\$1376.00
SEDGA	70-100	SB303SEDDG	\$1528.00
SEDGA	110-150	SB304SEDDG	\$3742.00
SEHGA	15-30	SB301SEHGG	\$1778.00
SEHGA	40-60	SB302SEHGG	\$1778.00
SEHGA	70-100	SB303SEHGG	\$1944.00
SEHGA	110-150	SB304SEHGG	\$4196.00
SELGA	15-30	SB301SELGG	\$2910.00
SELGA	40-60	SB302SELGG	\$2910.00
SELGA	70-100	SB303SELGG	\$3430.00
SELGA	110-150	SB304SELGG	\$7252.00
SEPGA	15-30	SB301SEPGG	\$3872.00
SEPGA	40-60	SB302SEPGG	\$3872.00
SEPGA	70-100	SB303SEPGG	\$4652.00
SEPGA	110-150	SB304SEPGG	\$9852.00
SFHGA	70-250	SB300SFHGG	\$4196.00
SFLGA	70-250	SB300SFLGG	\$7638.00
SFPGA	70-250	SB300SFPGG	\$10238.00
SGH4GA	125-400	SB300SGH4GG	\$7512.00
SGL4A	125-400	SB300SGL4GG	\$11022.00
SGP4GA	125-400	SB300SGP4GG	\$14788.00
SGH6GA	250-600	SB300SGH6GG	\$9982.00
SGL6GA	250-600	SB300SGL6GG	\$12708.00
SGP6GA	250-600	SB300SGP6GG	\$17128.00
SKHGA	300-800	SB300SKHGG	\$12448.00
SKLGA	300-800	SB300SKLGG	\$20902.00
SKPGA	300-800	SB300SKPGG	\$24672.00

Notes: Breakers must be factory-installed. IC rating in rms symmetrical kA.

### Without Rating Plug Three-Phase, Four-Wire

Frame Type	Trip Amps	Product Number	List Price GO-114M
SEDGA	15-30	SB401SEDDG	\$1506.00
SEDGA	40-60	SB402SEDDG	\$1506.00
SEDGA	70-100	SB403SEDDG	\$1658.00
SEDGA	110-150	SB404SEDDG	\$3872.00
SEHGA	15-30	SB401SEHGG	\$2428.00
SEHGA	40-60	SB402SEHGG	\$2428.00
SEHGA	70-100	SB403SEHGG	\$2594.00
SEHGA	110-150	SB404SEHGG	\$4314.00
SELGA	15-30	SB401SELGG	\$3170.00
SELGA	40-60	SB402SELGG	\$3170.00
SELGA	70-100	SB403SELGG	\$7512.00
SELGA	110-150	SB404SELGG	\$8054.00
SEPGA	15-30	SB401SEPGG	\$4132.00
SEPGA	40-60	SB402SEPGG	\$4132.00
SEPGA	70-100	SB403SEPGG	\$4912.00
SEPGA	110-150	SB404SEPGG	\$10112.00
SFHGA	70-250	SB400SFHGG	\$4314.00
SFLGA	70-250	SB400SFLGG	\$7924.00
SFPGA	70-250	SB400SFPGG	\$10524.00
SGH4GA	125-400	SB400SGH4GG	\$8162.00
SGL4A	125-400	SB400SGL4GG	\$11802.00
SGP4GA	125-400	SB400SGP4GG	\$15568.00
SGH6GA	250-600	SB400SGH6GG	\$10502.00
SGL6GA	250-600	SB400SGL6GG	\$13228.00
SGP6GA	250-600	SB400SGP6GG	\$17648.00
SKHGA	300-800	SB400SKHGG	\$12842.00
SKLGA	300-800	SB400SKLGG	\$21682.00
SKPGA	300-800	SB400SKPGG	\$25452.00

Notes: Breakers must be factory-installed. IC rating in rms symmetrical kA. Order rating plug separately from BuyLog. Breakers must be factory-installed. Plug assist optional for E frame plugs.



# Busway Spectra® RMS

Sandwich Bus, Circuit Breaker with MicroVersaTrip® Plus Trip Units

## Features and Benefits

### MicroVersaTrip® Plus Trip Units Standard

- 3-phase Ammeter with +/- accuracy
- Adjustable Long time (L) pickup, 0.5-1.0X, and delay (3-4 bands).
- Adjustable Instantaneous (I) pickup, 1.5-10X.
- Local Overload and Short Circuit Trip Indicators (T) with overload pickup warning.
- Interchangeable trip rating plugs with test set jack for TVRMS test set.
- Digital LCD display with four-button keypad for function selection and set point adjustment and sealable clear Lexan cover for tamper-resistant settings.
- True rms sensing for accurate response to high harmonic content waveforms.
- EMI immunity per ANSI C37.90.

### Optional

- Adjustable Short Time (S) pickup, 1.0-9.0C, and delay (4 bands) with I<sup>2</sup>t IN/OUT selection.
- Adjustable Ground fault (G) pickup, 0.2-1.0S, and delay (4 bands) with I<sup>2</sup>t IN/OUT selection and trip indicator. The 4 short time and ground fault delay bands provide broader system selectivity

## MicroVersaTrip® Plus Trip Function

Trip	List Price Adder, GO-114M
LIT	Standard
LSIT	\$5640.00
<b>With Ground Fault Option</b>	
LIGT	Standard
LSIGT	\$5640.00
Shunt Trip	\$1152.00

## Trip Function Definitions

Long time (L)	Adjustable current setting Adjustable long-time delay
Short Time (S)	Adjustable short-time pick-up Adjustable short-time delay with I <sup>2</sup> t Adjustable short-time delay without I <sup>2</sup> t
Instantaneous (I)	Adjustable pick-up
Ground Fault (G)	Adjustable ground fault pick-up Adjustable ground fault delay with I <sup>2</sup> t Adjustable ground fault delay without I <sup>2</sup> t
Trip Indication Targets	Standard

## Low Tier Frames (Ground Fault) Three-Phase, Three-Wire

Frame Type	Trip Amps	Product Number	List Price GO-114M
SGHB	60	SB36SGHGF+	\$13398.00
SGHB	80	SB38SGHGF+	\$13398.00
SGHB	100	SB310SGHGF+	\$13398.00
SGHB	125	SB312SGHGF+	\$13398.00
SGHB	150	SB315SGHGF+	\$13398.00
SGH4B	150	SB315SGH4GF+	\$13398.00
SGH4B	200	SB320SGH4GF+	\$13398.00
SGH4B	225	SB322SGH4GF+	\$13398.00
SGH4B	250	SB325SGH4GF+	\$13398.00
SGH4B	300	SB330SGH4GF+	\$13398.00
SGH4B	350	SB335SGH4GF+	\$13398.00
SGH4B	400	SB340SGH4GF+	\$13398.00
SGH6B	300	SB330SGH6GF+	\$15824.00
SGH6B	400	SB340SGH6GF+	\$15824.00
SGH6B	450	SB345SGH6GF+	\$15824.00
SGH6B	500	SB350SGH6GF+	\$15824.00
SGH6B	600	SB360SGH6GF+	\$15824.00
SKHB	300	SB330SKHGF+	\$18442.00
SKHB	400	SB340SKHGF+	\$18442.00
SKHB	500	SB350SKHGF+	\$18442.00
SKHB	600	SB360SKHGF+	\$18442.00
SKHB	700	SB370SKHGF+	\$18442.00
SKHB	800	SB380SKHGF+	\$18442.00

## Low Tier Frames (Ground Fault) Three-Phase, Four-Wire

Frame Type	Trip Amps	Product Number	List Price GO-114M
SGHB	60	SB46SGHGF+	\$16914.00
SGHB	80	SB48SGHGF+	\$16914.00
SGHB	100	SB410SGHGF+	\$16914.00
SGHB	125	SB412SGHGF+	\$16914.00
SGHB	150	SB415SGHGF+	\$16914.00
SGH4B	150	SB415SGH4GF+	\$16914.00
SGH4B	200	SB420SGH4GF+	\$16914.00
SGH4B	225	SB422SGH4GF+	\$16914.00
SGH4B	250	SB425SGH4GF+	\$16914.00
SGH4B	300	SB430SGH4GF+	\$16914.00
SGH4B	350	SB435SGH4GF+	\$16914.00
SGH4B	400	SB440SGH4GF+	\$16914.00
SGH6B	300	SB430SGH6GF+	\$19182.00
SGH6B	400	SB440SGH6GF+	\$19182.00
SGH6B	450	SB445SGH6GF+	\$19182.00
SGH6B	500	SB450SGH6GF+	\$19182.00
SGH6B	600	SB460SGH6GF+	\$19182.00
SKHB	300	SB430SKHGF+	\$21802.00
SKHB	400	SB440SKHGF+	\$21802.00
SKHB	500	SB450SKHGF+	\$21802.00
SKHB	600	SB460SKHGF+	\$21802.00
SKHB	700	SB470SKHGF+	\$21802.00
SKHB	800	SB480SKHGF+	\$21802.00

LIGT trip function is standard. For LSIGT add \$5640.00 list.



# Busway Spectra® RMS

Sandwich Bus, Circuit Breaker with MicroVersaTrip® Plus Trip Units

## Low Tier Frames Three-Phase, Three-Wire

Frame Type	Trip Amps	Product Number	List Price GO-114M
SGHB	60	SB36SGHG+	\$8294.00
SGHB	80	SB38SGHG+	\$8294.00
SGHB	100	SB310SGHG+	\$8294.00
SGHB	125	SB312SGHG+	\$8294.00
SGHB	150	SB315SGHG+	\$8294.00
SGH4B	150	SB315SGH4G+	\$8294.00
SGH4B	200	SB320SGH4G+	\$8294.00
SGH4B	225	SB322SGH4G+	\$8294.00
SGH4B	250	SB325SGH4G+	\$8294.00
SGH4B	300	SB330SGH4G+	\$8294.00
SGH4B	350	SB335SGH4G+	\$8294.00
SGH4B	400	SB340SGH4G+	\$8294.00
SGH6B	300	SB330SGH6G+	\$10824.00
SGH6B	400	SB340SGH6G+	\$10824.00
SGH6B	450	SB345SGH6G+	\$10824.00
SGH6B	500	SB350SGH6G+	\$10824.00
SGH6B	600	SB360SGH6G+	\$10824.00
SKHB	300	SB330SKHG+	\$13442.00
SKHB	400	SB340SKHG+	\$13442.00
SKHB	500	SB350SKHG+	\$13442.00
SKHB	600	SB360SKHG+	\$13442.00
SKHB	700	SB370SKHG+	\$13442.00
SKHB	800	SB380SKHG+	\$13442.00

## Low Tier Frames Three-Phase, Four-Wire

Frame Type	Trip Amps	Product Number	List Price GO-114M
SGHB	60	SB46SGHG+	\$9074.00
SGHB	80	SB48SGHG+	\$9074.00
SGHB	100	SB410SGHG+	\$9074.00
SGHB	125	SB412SGHG+	\$9074.00
SGHB	150	SB415SGHG+	\$9074.00
SGH4B	150	SB415SGH4G+	\$9074.00
SGH4B	200	SB420SGH4G+	\$9074.00
SGH4B	225	SB422SGH4G+	\$9074.00
SGH4B	250	SB425SGH4G+	\$9074.00
SGH4B	300	SB430SGH4G+	\$9074.00
SGH4B	350	SB435SGH4G+	\$9074.00
SGH4B	400	SB440SGH4G+	\$9074.00
SGH6B	300	SB430SGH6G+	\$11344.00
SGH6B	400	SB440SGH6G+	\$11344.00
SGH6B	450	SB445SGH6G+	\$11344.00
SGH6B	500	SB450SGH6G+	\$11344.00
SGH6B	600	SB460SGH6G+	\$11344.00
SKHB	300	SB430SKHG+	\$13962.00
SKHB	400	SB440SKHG+	\$13962.00
SKHB	500	SB450SKHG+	\$13962.00
SKHB	600	SB460SKHG+	\$13962.00
SKHB	700	SB470SKHG+	\$13962.00
SKHB	800	SB480SKHG+	\$13962.00

LIT trip function is standard. For LSIT add \$5640.00 list.

## Mid Tier Frames (Ground Fault) Three-Phase, Three-Wire

Frame Type	Trip Amps	Product Number	List Price GO-114M
SGLB	60	SB36SGLGF+	\$17144.00
SGLB	80	SB38SGLGF+	\$17144.00
SGLB	100	SB310SGLGF+	\$17144.00
SGLB	125	SB312SGLGF+	\$17144.00
SGLB	150	SB315SGLGF+	\$17144.00
SGL4B	150	SB315SGL4GF+	\$17144.00
SGL4B	200	SB320SGL4GF+	\$17144.00
SGL4B	225	SB322SGL4GF+	\$17144.00
SGL4B	250	SB325SGL4GF+	\$17144.00
SGL4B	300	SB330SGL4GF+	\$17144.00
SGL4B	350	SB335SGL4GF+	\$17144.00
SGL4B	400	SB340SGL4GF+	\$17144.00
SGL6B	300	SB330SGL6GF+	\$18708.00
SGL6B	400	SB340SGL6GF+	\$18708.00
SGL6B	450	SB345SGL6GF+	\$18708.00
SGL6B	500	SB350SGL6GF+	\$18708.00
SGL6B	600	SB360SGL6GF+	\$18708.00
SKLB	300	SB330SKLGF+	\$26140.00
SKLB	400	SB340SKLGF+	\$26140.00
SKLB	500	SB350SKLGF+	\$26140.00
SKLB	600	SB360SKLGF+	\$26140.00
SKLB	700	SB370SKLGF+	\$26140.00
SKLB	800	SB380SKLGF+	\$26140.00

## Mid Tier Frames (Ground Fault) Three-Phase, Four-Wire

Frame Type	Trip Amps	Product Number	List Price GO-114M
SGLB	60	SB46SGLGF+	\$20764.00
SGLB	80	SB48SGLGF+	\$20764.00
SGLB	100	SB410SGLGF+	\$20764.00
SGLB	125	SB412SGLGF+	\$20764.00
SGLB	150	SB415SGLGF+	\$20764.00
SGL4B	150	SB415SGL4GF+	\$20764.00
SGL4B	200	SB420SGL4GF+	\$20764.00
SGL4B	225	SB422SGL4GF+	\$20764.00
SGL4B	250	SB425SGL4GF+	\$20764.00
SGL4B	300	SB430SGL4GF+	\$20764.00
SGL4B	350	SB435SGL4GF+	\$20764.00
SGL4B	400	SB440SGL4GF+	\$20764.00
SGL6B	300	SB430SGL6GF+	\$22066.00
SGL6B	400	SB440SGL6GF+	\$22066.00
SGL6B	450	SB445SGL6GF+	\$22066.00
SGL6B	500	SB450SGL6GF+	\$22066.00
SGL6B	600	SB460SGL6GF+	\$22066.00
SKLB	300	SB430SKLGF+	\$29760.00
SKLB	400	SB440SKLGF+	\$29760.00
SKLB	500	SB450SKLGF+	\$29760.00
SKLB	600	SB460SKLGF+	\$29760.00
SKLB	700	SB470SKLGF+	\$29760.00
SKLB	800	SB480SKLGF+	\$29760.00

LIGT trip function is standard. For LSIGT add \$5640.00 list.





# Busway Spectra® RMS (continued)

Sandwich Bus, Circuit Breaker with MicroVersaTrip® Plus Trip Units

## Mid Tier Frames Three-Phase, Three-Wire

Frame Type	Trip Amps	Product Number	List Price GO-114M
SGLB	60	SB36SGLG+	\$12144.00
SGLB	80	SB38SGLG+	\$12144.00
SGLB	100	SB310SGLG+	\$12144.00
SGLB	125	SB312SGLG+	\$12144.00
SGLB	150	SB315SGLG+	\$12144.00
SGL4B	150	SB315SGL4G+	\$12144.00
SGL4B	200	SB320SGL4G+	\$12144.00
SGL4B	225	SB322SGL4G+	\$12144.00
SGL4B	250	SB325SGL4G+	\$12144.00
SGL4B	300	SB330SGL4G+	\$12144.00
SGL4B	350	SB335SGL4G+	\$12144.00
SGL4B	400	SB340SGL4G+	\$12144.00
SGL6B	300	SB330SGL6G+	\$13708.00
SGL6B	400	SB340SGL6G+	\$13708.00
SGL6B	450	SB345SGL6G+	\$13708.00
SGL6B	500	SB350SGL6G+	\$13708.00
SGL6B	600	SB360SGL6G+	\$13708.00
SKLB	300	SB330SKLG+	\$21140.00
SKLB	400	SB340SKLG+	\$21140.00
SKLB	500	SB350SKLG+	\$21140.00
SKLB	600	SB360SKLG+	\$21140.00
SKLB	700	SB370SKLG+	\$21140.00
SKLB	800	SB380SKLG+	\$21140.00

## Mid Tier Frames Three-Phase, Four-Wire

Frame Type	Trip Amps	Product Number	List Price GO-114M
SGLB	60	SB46SGLG+	\$12924.00
SGLB	80	SB48SGLG+	\$12924.00
SGLB	100	SB410SGLG+	\$12924.00
SGLB	125	SB412SGLG+	\$12924.00
SGLB	150	SB415SGLG+	\$12924.00
SGL4B	150	SB415SGL4G+	\$12924.00
SGL4B	200	SB420SGL4G+	\$12924.00
SGL4B	225	SB422SGL4G+	\$12924.00
SGL4B	250	SB425SGL4G+	\$12924.00
SGL4B	300	SB430SGL4G+	\$12924.00
SGL4B	350	SB435SGL4G+	\$12924.00
SGL4B	400	SB440SGL4G+	\$12924.00
SGL6B	300	SB430SGL6G+	\$14228.00
SGL6B	400	SB440SGL6G+	\$14228.00
SGL6B	450	SB445SGL6G+	\$14228.00
SGL6B	500	SB450SGL6G+	\$14228.00
SGL6B	600	SB460SGL6G+	\$14228.00
SKLB	300	SB430SKLG+	\$21920.00
SKLB	400	SB440SKLG+	\$21920.00
SKLB	500	SB450SKLG+	\$21920.00
SKLB	600	SB460SKLG+	\$21920.00
SKLB	700	SB470SKLG+	\$21920.00
SKLB	800	SB480SKLG+	\$21920.00

LIT trip function is standard. For LSIT add \$5640.00 list.

## Peak Tier Frames (Ground Fault) Three-Phase, Three-Wire

Frame Type	Trip Amps	Product Number	List Price GO-114M
SGPB	60	SB36SGPGF+	\$21490.00
SGPB	80	SB38SGPGF+	\$21490.00
SGPB	100	SB310SGPGF+	\$21490.00
SGPB	125	SB312SGPGF+	\$21490.00
SGPB	150	SB315SGPGF+	\$21490.00
SGP4B	150	SB315SGP4GF+	\$21490.00
SGP4B	200	SB320SGP4GF+	\$21490.00
SGP4B	225	SB322SGP4GF+	\$21490.00
SGP4B	250	SB325SGP4GF+	\$21490.00
SGP4B	300	SB330SGP4GF+	\$21490.00
SGP4B	350	SB335SGP4GF+	\$21490.00
SGP4B	400	SB340SGP4GF+	\$21490.00
SGP6B	300	SB330SGP6GF+	\$23530.00
SGP6B	400	SB340SGP6GF+	\$23530.00
SGP6B	450	SB345SGP6GF+	\$23530.00
SGP6B	500	SB350SGP6GF+	\$23530.00
SGP6B	600	SB360SGP6GF+	\$23530.00
SKPB	300	SB330SKPGF+	\$40792.00
SKPB	400	SB340SKPGF+	\$40792.00
SKPB	500	SB350SKPGF+	\$40792.00
SKPB	600	SB360SKPGF+	\$40792.00
SKPB	700	SB370SKPGF+	\$40792.00
SKPB	800	SB380SKPGF+	\$40792.00

## Peak Tier Frames (Ground Fault) Three-Phase, Four-Wire

Frame Type	Trip Amps	Product Number	List Price GO-114M
SGPB	60	SB46SGPGF+	\$24588.00
SGPB	80	SB48SGPGF+	\$24588.00
SGPB	100	SB410SGPGF+	\$24588.00
SGPB	125	SB412SGPGF+	\$24588.00
SGPB	150	SB415SGPGF+	\$24588.00
SGP4B	150	SB415SGP4GF+	\$24588.00
SGP4B	200	SB420SGP4GF+	\$24588.00
SGP4B	225	SB422SGP4GF+	\$24588.00
SGP4B	250	SB425SGP4GF+	\$24588.00
SGP4B	300	SB430SGP4GF+	\$24588.00
SGP4B	350	SB435SGP4GF+	\$24588.00
SGP4B	400	SB440SGP4GF+	\$24588.00
SGP6B	300	SB430SGP6GF+	\$26890.00
SGP6B	400	SB440SGP6GF+	\$26890.00
SGP6B	450	SB445SGP6GF+	\$26890.00
SGP6B	500	SB450SGP6GF+	\$26890.00
SGP6B	600	SB460SGP6GF+	\$26890.00
SKPB	300	SB430SKPGF+	\$44410.00
SKPB	400	SB440SKPGF+	\$44410.00
SKPB	500	SB450SKPGF+	\$44410.00
SKPB	600	SB460SKPGF+	\$44410.00
SKPB	700	SB470SKPGF+	\$44410.00
SKPB	800	SB480SKPGF+	\$44410.00

LIGT trip function is standard. For LSIGT add \$5640.00 list.



# Busway Spectra® RMS (continued)

Sandwich Bus, Circuit Breaker with MicroVersaTrip® Plus Trip Units

## Peak Tier Frames Three-Phase, Three-Wire

Frame Type	Trip Amps	Product Number	List Price GO-114M
SGPB	60	SB36SGPG+	\$16490.00
SGPB	80	SB38SGPG+	\$16490.00
SGPB	100	SB310SGPG+	\$16490.00
SGPB	125	SB312SGPG+	\$16490.00
SGPB	150	SB315SGPG+	\$16490.00
SGP4B	150	SB315SGP4G+	\$16490.00
SGP4B	200	SB320SGP4G+	\$16490.00
SGP4B	225	SB322SGP4G+	\$16490.00
SGP4B	250	SB325SGP4G+	\$16490.00
SGP4B	300	SB330SGP4G+	\$16490.00
SGP4B	350	SB335SGP4G+	\$16490.00
SGP4B	400	SB340SGP4G+	\$16490.00
SGP6B	300	SB330SGP6G+	\$18530.00
SGP6B	400	SB340SGP6G+	\$18530.00
SGP6B	450	SB345SGP6G+	\$18530.00
SGP6B	500	SB350SGP6G+	\$18530.00
SGP6B	600	SB360SGP6G+	\$18530.00
SKPB	300	SB330SKPG+	\$35792.00
SKPB	400	SB340SKPG+	\$35792.00
SKPB	500	SB350SKPG+	\$35792.00
SKPB	600	SB360SKPG+	\$35792.00
SKPB	700	SB370SKPG+	\$35792.00
SKPB	800	SB380SKPG+	\$35792.00

## Peak Tier Frames Three-Phase, Four-Wire

Frame Type	Trip Amps	Product Number	List Price GO-114M
SGPB	60	SB46SGPG+	\$16750.00
SGPB	80	SB48SGPG+	\$16750.00
SGPB	100	SB410SGPG+	\$16750.00
SGPB	125	SB412SGPG+	\$16750.00
SGPB	150	SB415SGPG+	\$16750.00
SGP4B	150	SB415SGP4G+	\$16750.00
SGP4B	200	SB420SGP4G+	\$16750.00
SGP4B	225	SB422SGP4G+	\$16750.00
SGP4B	250	SB425SGP4G+	\$16750.00
SGP4B	300	SB430SGP4G+	\$16750.00
SGP4B	350	SB435SGP4G+	\$16750.00
SGP4B	400	SB440SGP4G+	\$16750.00
SGP6B	300	SB430SGP6G+	\$19050.00
SGP6B	400	SB440SGP6G+	\$19050.00
SGP6B	450	SB445SGP6G+	\$19050.00
SGP6B	500	SB450SGP6G+	\$19050.00
SGP6B	600	SB460SGP6G+	\$19050.00
SKPB	300	SB430SKPG+	\$36572.00
SKPB	400	SB440SKPG+	\$36572.00
SKPB	500	SB450SKPG+	\$36572.00
SKPB	600	SB460SKPG+	\$36572.00
SKPB	700	SB470SKPG+	\$36572.00
SKPB	800	SB480SKPG+	\$36572.00

LIT trip function is standard. For LSIT add \$5640.00 list.



# Busway Spectra® Series Busway

Sandwich Bus, Plugs, Fusible, Conversion Kits

## Features and Benefits

- Exclusive Plug Assist<sup>1</sup>: for mechanical installation.
- Ground Contact: before stab contact.
- Interlock: to insure that plug is off when engaging bus and when removing plug.
- Door Interlock: plug must be off to open door.

## Standard Frames Three-Phase, Three-Wire TEB

Voltage	Trip Amps	Product Number	List Price GO-114M
240 Volts Fixed Trip	15	SB31EBG	<b>\$1112.00</b>
240 Volts Fixed Trip	20	SB32EBG	<b>\$1112.00</b>
240 Volts Fixed Trip	30	SB33EBG	<b>\$1112.00</b>
240 Volts Fixed Trip	40	SB34EBG	<b>\$1112.00</b>
240 Volts Fixed Trip	50	SB35EBG	<b>\$1112.00</b>
240 Volts Fixed Trip	60	SB36EBG	<b>\$1112.00</b>
240 Volts Fixed Trip	70	SB37EBG	<b>\$1342.00</b>
240 Volts Fixed Trip	100	SB310EBG	<b>\$1342.00</b>

## Standard Frames Three-Phase, Three-Wire TED4

Voltage	Trip Amps	Product Number	List Price GO-114M
480 Volts Fixed Trip	15	SB31ED4G	<b>\$1386.00</b>
480 Volts Fixed Trip	20	SB32ED4G	<b>\$1386.00</b>
480 Volts Fixed Trip	30	SB33ED4G	<b>\$1386.00</b>
480 Volts Fixed Trip	40	SB34ED4G	<b>\$1386.00</b>
480 Volts Fixed Trip	50	SB35ED4G	<b>\$1386.00</b>
480 Volts Fixed Trip	60	SB36ED4G	<b>\$1386.00</b>
480 Volts Fixed Trip	70	SB37ED4G	<b>\$1542.00</b>
480 Volts Fixed Trip	100	SB310ED4G	<b>\$1542.00</b>

## Standard Frames Three-Phase, Three-Wire TED6

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Fixed Trip	15	SB31ED6G	<b>\$1528.00</b>
600 Volts Fixed Trip	20	SB32ED6G	<b>\$1528.00</b>
600 Volts Fixed Trip	30	SB33ED6G	<b>\$1528.00</b>
600 Volts Fixed Trip	40	SB34ED6G	<b>\$1528.00</b>
600 Volts Fixed Trip	50	SB35ED6G	<b>\$1528.00</b>
600 Volts Fixed Trip	60	SB36ED6G	<b>\$1528.00</b>
600 Volts Fixed Trip	70	SB37ED6G	<b>\$1684.00</b>
600 Volts Fixed Trip	100	SB310ED6G	<b>\$1684.00</b>

## Standard Frames Three-Phase, Three-Wire TFJ

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Fixed Trip	70	SB37FJG	<b>\$3654.00</b>
600 Volts Fixed Trip	100	SB310FJG	<b>\$3654.00</b>
600 Volts Fixed Trip	110	SB311FJG	<b>\$3654.00</b>
600 Volts Fixed Trip	125	SB312FJG	<b>\$3654.00</b>
600 Volts Fixed Trip	150	SB315FJG	<b>\$3654.00</b>
600 Volts Fixed Trip	200	SB320FJG	<b>\$3654.00</b>
600 Volts Fixed Trip	225	SB322FJG	<b>\$3654.00</b>

<sup>1</sup>Optional for E Frame plugs.

## Standard Frames Three-Phase, Three-Wire TFK

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	70	SB37FKG	<b>\$4080.00</b>
600 Volts Inter. Trip	100	SB310FKG	<b>\$4080.00</b>
600 Volts Inter. Trip	125	SB312FKG	<b>\$4080.00</b>
600 Volts Inter. Trip	150	SB315FKG	<b>\$4080.00</b>
600 Volts Inter. Trip	200	SB320FKG	<b>\$4080.00</b>
600 Volts Inter. Trip	225	SB322FKG	<b>\$4080.00</b>

## Standard Frames Three-Phase, Three-Wire TJJ

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Fixed Trip	125	SB312JJG	<b>\$7602.00</b>
600 Volts Fixed Trip	150	SB315JJG	<b>\$7602.00</b>
600 Volts Fixed Trip	200	SB320JJG	<b>\$7602.00</b>
600 Volts Fixed Trip	225	SB322JJG	<b>\$7602.00</b>
600 Volts Fixed Trip	300	SB330JJG	<b>\$7602.00</b>
600 Volts Fixed Trip	400	SB340JJG	<b>\$7602.00</b>

## Standard Frames Three-Phase, Three-Wire TJK4

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	125	SB312JK4G	<b>\$7632.00</b>
600 Volts Inter. Trip	150	SB315JK4G	<b>\$7632.00</b>
600 Volts Inter. Trip	175	SB317JK4G	<b>\$7632.00</b>
600 Volts Inter. Trip	200	SB320JK4G	<b>\$7632.00</b>
600 Volts Inter. Trip	225	SB322JK4G	<b>\$7632.00</b>
600 Volts Inter. Trip	300	SB330JK4G	<b>\$7632.00</b>
600 Volts Inter. Trip	400	SB340JK4G	<b>\$7632.00</b>

## Standard Frames Three-Phase, Three-Wire TJK6

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	400	SB340JK6G	<b>\$9972.00</b>
600 Volts Inter. Trip	450	SB345JK6G	<b>\$10168.00</b>
600 Volts Inter. Trip	500	SB350JK6G	<b>\$10168.00</b>
600 Volts Inter. Trip	600	SB360JK6G	<b>\$10168.00</b>

## Standard Frames Three-Phase, Three-Wire TKM8

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	300	SB330KMG	<b>\$11596.00</b>
600 Volts Inter. Trip	400	SB340KMG	<b>\$11596.00</b>
600 Volts Inter. Trip	500	SB350KMG	<b>\$11596.00</b>
600 Volts Inter. Trip	600	SB360KMG	<b>\$11596.00</b>
600 Volts Inter. Trip	700	SB370KMG	<b>\$12964.00</b>
600 Volts Inter. Trip	800	SB380KMG	<b>\$12964.00</b>

## Standard Frames Three-Phase, Four-Wire TEB

Voltage	Trip Amps	Product Number	List Price GO-114M
240 Volts Fixed Trip	15	SB41EBG	<b>\$1242.00</b>
240 Volts Fixed Trip	20	SB42EBG	<b>\$1242.00</b>
240 Volts Fixed Trip	30	SB43EBG	<b>\$1242.00</b>
240 Volts Fixed Trip	40	SB44EBG	<b>\$1242.00</b>
240 Volts Fixed Trip	50	SB45EBG	<b>\$1242.00</b>
240 Volts Fixed Trip	60	SB46EBG	<b>\$1242.00</b>
240 Volts Fixed Trip	70	SB47EBG	<b>\$1456.00</b>
240 Volts Fixed Trip	100	SB410EBG	<b>\$1456.00</b>



# Busway Spectra® Series Busway (continued)

Sandwich Bus, Plugs, Fusible, Conversion Kits

## Standard Frames Three-Phase, Four-Wire TED4

Voltage	Trip Amps	Product Number	List Price GO-114M
480 Volts Fixed Trip	15	SB41ED4G	\$1528.00
480 Volts Fixed Trip	20	SB42ED4G	\$1528.00
480 Volts Fixed Trip	30	SB43ED4G	\$1528.00
480 Volts Fixed Trip	40	SB44ED4G	\$1528.00
480 Volts Fixed Trip	50	SB45ED4G	\$1528.00
480 Volts Fixed Trip	60	SB46ED4G	\$1528.00
480 Volts Fixed Trip	70	SB47ED4G	\$1656.00
480 Volts Fixed Trip	100	SB410ED4G	\$1656.00

## Standard Frames Three-Phase, Four-Wire TED6

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Fixed Trip	15	SB41ED6G	\$1640.00
600 Volts Fixed Trip	20	SB42ED6G	\$1640.00
600 Volts Fixed Trip	30	SB43ED6G	\$1640.00
600 Volts Fixed Trip	40	SB44ED6G	\$1640.00
600 Volts Fixed Trip	50	SB45ED6G	\$1640.00
600 Volts Fixed Trip	60	SB46ED6G	\$1640.00
600 Volts Fixed Trip	70	SB47ED6G	\$1812.00
600 Volts Fixed Trip	100	SB410ED6G	\$1812.00

## Standard Frames Three-Phase, Four-Wire TFJ

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Fixed Trip	70	SB47FJG	\$3894.00
600 Volts Fixed Trip	100	SB410FJG	\$3894.00
600 Volts Fixed Trip	110	SB411FJG	\$3894.00
600 Volts Fixed Trip	125	SB412FJG	\$3894.00
600 Volts Fixed Trip	150	SB415FJG	\$3894.00
600 Volts Fixed Trip	200	SB420FJG	\$3894.00
600 Volts Fixed Trip	225	SB422FJG	\$3894.00

## Standard Frames Three-Phase, Four-Wire TFK

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	70	SB47FKG	\$4296.00
600 Volts Inter. Trip	100	SB410FKG	\$4296.00
600 Volts Inter. Trip	125	SB412FKG	\$4296.00
600 Volts Inter. Trip	150	SB415FKG	\$4296.00
600 Volts Inter. Trip	200	SB420FKG	\$4296.00
600 Volts Inter. Trip	225	SB422FKG	\$4296.00

## Standard Frames Three-Phase, Four-Wire TJJ

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Fixed Trip	125	SB412JJG	\$7974.00
600 Volts Fixed Trip	150	SB415JJG	\$7974.00
600 Volts Fixed Trip	200	SB420JJG	\$7974.00
600 Volts Fixed Trip	225	SB422JJG	\$7974.00
600 Volts Fixed Trip	300	SB430JJG	\$7974.00
600 Volts Fixed Trip	400	SB440JJG	\$7974.00

## Standard Frames Three-Phase, Four-Wire TJK4

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	125	SB412JK4G	\$8002.00
600 Volts Inter. Trip	150	SB415JK4G	\$8002.00
600 Volts Inter. Trip	175	SB417JK4G	\$8002.00
600 Volts Inter. Trip	200	SB420JK4G	\$8002.00
600 Volts Inter. Trip	225	SB422JK4G	\$8002.00
600 Volts Inter. Trip	300	SB430JK4G	\$8002.00
600 Volts Inter. Trip	400	SB440JK4G	\$8002.00

## Standard Frames Three-Phase, Four-Wire TJK6

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	400	SB440JK6G	\$10426.00
600 Volts Inter. Trip	450	SB445JK6G	\$10426.00
600 Volts Inter. Trip	500	SB450JK6G	\$10684.00
600 Volts Inter. Trip	600	SB460JK6G	\$10684.00

## Standard Frames Three-Phase, Four-Wire TKM8

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	300	SB430KMG	\$12108.00
600 Volts Inter. Trip	400	SB440KMG	\$12108.00
600 Volts Inter. Trip	500	SB450KMG	\$12108.00
600 Volts Inter. Trip	600	SB460KMG	\$12108.00
600 Volts Inter. Trip	700	SB470KMG	\$13508.00
600 Volts Inter. Trip	800	SB480KMG	\$13508.00

## Hi-Break Frames Three-Phase, Three-Wire THED

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Fixed Trip	15	SB31HEDG	\$1926.00
600 Volts Fixed Trip	20	SB32HEDG	\$1926.00
600 Volts Fixed Trip	30	SB33HEDG	\$1926.00
600 Volts Fixed Trip	40	SB34HEDG	\$1926.00
600 Volts Fixed Trip	50	SB35HEDG	\$1926.00
600 Volts Fixed Trip	70	SB37HEDG	\$2098.00
600 Volts Fixed Trip	100	SB310HEDG	\$2098.00

## Hi-Break Frames Three-Phase, Three-Wire THFK

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	70	SB37HFKG	\$6648.00
600 Volts Inter. Trip	100	SB310HFKG	\$6648.00
600 Volts Inter. Trip	125	SB312HFKG	\$6648.00
600 Volts Inter. Trip	150	SB315HFKG	\$6648.00
600 Volts Inter. Trip	200	SB320HFKG	\$6648.00
600 Volts Inter. Trip	225	SB322HFKG	\$6648.00

## Hi-Break Frames Three-Phase, Three-Wire THJK4

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	125	SB312HJK4G	\$10512.00
600 Volts Inter. Trip	150	SB315HJK4G	\$10512.00
600 Volts Inter. Trip	200	SB320HJK4G	\$10512.00
600 Volts Inter. Trip	225	SB322HJK4G	\$10512.00
600 Volts Inter. Trip	300	SB330HJK4G	\$10512.00
600 Volts Inter. Trip	400	SB340HJK4G	\$10512.00



# Busway Spectra® Series Busway (continued)

Sandwich Bus, Plugs, Fusible, Conversion Kits

## Hi-Break Frames Three-Phase, Three-Wire THJK6

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	400	SB340HJK6G	<b>\$10642.00</b>
600 Volts Inter. Trip	450	SB345HJK6G	<b>\$10642.00</b>
600 Volts Inter. Trip	500	SB350HJK6G	<b>\$10642.00</b>
600 Volts Inter. Trip	600	SB360HJK6G	<b>\$10642.00</b>

## Hi-Break Frames Three-Phase, Three-Wire THKM8

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	300	SB330HKMG	<b>\$12480.00</b>
600 Volts Inter. Trip	400	SB340HKMG	<b>\$12480.00</b>
600 Volts Inter. Trip	500	SB350HKMG	<b>\$12480.00</b>
600 Volts Inter. Trip	600	SB360HKMG	<b>\$12480.00</b>
600 Volts Inter. Trip	700	SB370HKMG	<b>\$14648.00</b>
600 Volts Inter. Trip	800	SB380HKMG	<b>\$14648.00</b>

## Hi-Break Frames Three-Phase, Four-Wire THED

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Fixed Trip	15	SB41HEDG	<b>\$2042.00</b>
600 Volts Fixed Trip	20	SB42HEDG	<b>\$2042.00</b>
600 Volts Fixed Trip	30	SB43HEDG	<b>\$2042.00</b>
600 Volts Fixed Trip	40	SB44HEDG	<b>\$2042.00</b>
600 Volts Fixed Trip	50	SB45HEDG	<b>\$2042.00</b>
600 Volts Fixed Trip	70	SB47HEDG	<b>\$2226.00</b>
600 Volts Fixed Trip	100	SB410HEDG	<b>\$2226.00</b>

## Hi-Break Frames Three-Phase, Four-Wire THFK

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	70	SB47HFKG	<b>\$6874.00</b>
600 Volts Inter. Trip	100	SB410HFKG	<b>\$6874.00</b>
600 Volts Inter. Trip	125	SB412HFKG	<b>\$6874.00</b>
600 Volts Inter. Trip	150	SB415HFKG	<b>\$6874.00</b>
600 Volts Inter. Trip	200	SB420HFKG	<b>\$6874.00</b>
600 Volts Inter. Trip	225	SB422HFKG	<b>\$6874.00</b>

## Hi-Break Frames Three-Phase, Four-Wire THJK4

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	125	SB412HJK4G	<b>\$10856.00</b>
600 Volts Inter. Trip	150	SB415HJK4G	<b>\$10856.00</b>
600 Volts Inter. Trip	200	SB420HJK4G	<b>\$10856.00</b>
600 Volts Inter. Trip	225	SB422HJK4G	<b>\$10856.00</b>
600 Volts Inter. Trip	300	SB430HJK4G	<b>\$10856.00</b>
600 Volts Inter. Trip	400	SB440HJK4G	<b>\$10856.00</b>

## Hi-Break Frames Three-Phase, Four-Wire THJK6

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	400	SB440HJK6G	<b>\$10992.00</b>
600 Volts Inter. Trip	450	SB445HJK6G	<b>\$10992.00</b>
600 Volts Inter. Trip	500	SB450HJK6G	<b>\$10992.00</b>
600 Volts Inter. Trip	600	SB460HJK6G	<b>\$10992.00</b>

## Hi-Break Frames Three-Phase, Four-Wire THKM8

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	300	SB430HKMG	<b>\$13020.00</b>
600 Volts Inter. Trip	400	SB440HKMG	<b>\$13020.00</b>
600 Volts Inter. Trip	500	SB450HKMG	<b>\$13020.00</b>
600 Volts Inter. Trip	600	SB460HKMG	<b>\$13020.00</b>
600 Volts Inter. Trip	700	SB470HKMG	<b>\$15246.00</b>
600 Volts Inter. Trip	800	SB480HKMG	<b>\$15246.00</b>

## Tri-Break® Frames Three-Phase, Three-Wire TB4

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	125	SB312B4F14G	<b>\$10512.00</b>
600 Volts Inter. Trip	150	SB315B4F14G	<b>\$10512.00</b>
600 Volts Inter. Trip	200	SB320B4F14G	<b>\$10512.00</b>
600 Volts Inter. Trip	225	SB322B4F14G	<b>\$10512.00</b>
600 Volts Inter. Trip	300	SB330B4F14G	<b>\$12566.00</b>
600 Volts Inter. Trip	400	SB340B4F14G	<b>\$12566.00</b>

## Tri-Break® Frames Three-Phase, Three-Wire TB6

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	300	SB330B6J14G	<b>\$18868.00</b>
600 Volts Inter. Trip	400	SB340B6J14G	<b>\$18868.00</b>
600 Volts Inter. Trip	500	SB350B6J14G	<b>\$18868.00</b>
600 Volts Inter. Trip	600	SB360B6J14G	<b>\$18868.00</b>

## Tri-Break® Frames Three-Phase, Three-Wire TB8

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	600	SB360B8K22G	<b>\$21380.00</b>
600 Volts Inter. Trip	700	SB370B8K22G	<b>\$21380.00</b>
600 Volts Inter. Trip	800	SB380B8K22G	<b>\$21380.00</b>

## Tri-Break® Frames Three-Phase, Four-Wire TB4

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	125	SB412B4F14G	<b>\$10770.00</b>
600 Volts Inter. Trip	150	SB415B4F14G	<b>\$10770.00</b>
600 Volts Inter. Trip	200	SB420B4F14G	<b>\$10770.00</b>
600 Volts Inter. Trip	225	SB422B4F14G	<b>\$10770.00</b>
600 Volts Inter. Trip	300	SB430B4F14G	<b>\$13336.00</b>
600 Volts Inter. Trip	400	SB440B4F14G	<b>\$13336.00</b>

## Tri-Break® Frames Three-Phase, Four-Wire TB6

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	300	SB430B6J14G	<b>\$19440.00</b>
600 Volts Inter. Trip	400	SB440B6J14G	<b>\$19440.00</b>
600 Volts Inter. Trip	500	SB450B6J14G	<b>\$19440.00</b>
600 Volts Inter. Trip	600	SB460B6J14G	<b>\$19440.00</b>

## Tri-Break® Frames Three-Phase, Four-Wire TB8

Voltage	Trip Amps	Product Number	List Price GO-114M
600 Volts Inter. Trip	600	SB460B8K22G	<b>\$21950.00</b>
600 Volts Inter. Trip	700	SB470B8K22G	<b>\$21950.00</b>
600 Volts Inter. Trip	800	SB480B8K22G	<b>\$21950.00</b>



# Busway Spectra® Series Busway (continued)

Sandwich Bus, Plugs, Fusible, Conversion Kits

## Adapter Kits Convert Spectra® Series plugs to Armor-Clad

Amperage	Product Number	List Price GO-114L
30-100	SBAC1G	\$128.00
150-250	SBAC4G	\$294.00
400-800	SBAC5G	\$442.00

Ground stabs included.

## Adapter Kits

### Convert Spectra® Series Bus Plugs to Spectra® LowAmp Bus

Amperage	Product Number	List Price GO-114L
30-100	SBSL1G	\$128.00
200-225	SBSL4G	\$294.00
400-600	SBSL5G	\$442.00

(Style 2—shipped after 5/95)

Ground stabs included.

## Switch-Operated Fusible Plugs Three-Phase, Three-Wire

Voltage	Amperage	Product Number	List Price GO-114L
240 VAC	30	SB321RG	\$822.00
240 VAC	60	SB322RG	\$904.00
240 VAC	100	SB323RG	\$1264.00
240 VAC	200	SB324RG	\$2152.00
240 VAC	400	SB325RG	\$5626.00
240 VAC	600	SB326RG	\$7696.00
480 or 600 VAC	30	SB361RG	\$904.00
480 or 600 VAC	60	SB362RG	\$938.00
480 or 600 VAC	100	SB363RG	\$1316.00
480 or 600 VAC	200	SB364RG	\$2252.00
480 or 600 VAC	400	SB365RG	\$5694.00
480 or 600 VAC	600	SB366RG	\$7764.00

With QMR Interrupter Fuses Not Included

## Switch-Operated Fusible Plugs Three-Phase, Four-Wire

Voltage	Amperage	Product Number	List Price GO-114L
240 VAC	30	SB421RG	\$972.00
240 VAC	60	SB422RG	\$1038.00
240 VAC	100	SB423RG	\$1414.00
240 VAC	200	SB424RG	\$2412.00
240 VAC	400	SB425RG	\$6006.00
240 VAC	600	SB426RG	\$8386.00
480 or 600 VAC	30	SB461RG	\$1038.00
480 or 600 VAC	60	SB462RG	\$1072.00
480 or 600 VAC	100	SB463RG	\$1514.00
480 or 600 VAC	200	SB464RG	\$2496.00
480 or 600 VAC	400	SB465RG	\$6078.00
480 or 600 VAC	600	SB466RG	\$8470.00

With QMR Interrupter Fuses Not Included

## Miscellaneous Plug Modifications

- Plug Assist**—Standard for plugs over 100 amperes. Add suffix "P" to the product number for plugs 100 amperes and below. **\$94.00, GO-114L or M.**
- Drip-Proof Plugs**—Includes cover and stab gasketing. Add suffix "I" to product number and **\$156.00 list, GO-114L or M.**
- Splashproof (IP54) Plugs**—Add suffix "Z" to the product number and add **\$170.00 list of Drip-Proof, GO-114L or M.**
- Spectra® MVT + Option**—Add suffix "+" to the product number. Include note describing type of trip unit. See page 6-10 for **List Price Adders.**



# Busway Spectra® Series Busway

Sandwich Bus, Plug Options, Protective Devices and Short-Circuit Ratings

## Enclosure Three-Phase, Three-Wire Ground Standard

Frame Type	Trip Amps	Product Number	List Price GO-114M
E	100 max.	SB3100EG	\$728.00
F	225	SB3225FG	\$1196.00

## Enclosure Three-Phase, Four-Wire Ground Standard

Frame Type	Trip Amps	Product Number	List Price GO-114M
E	100 max.	SB4100EG	\$794.00
F	225	SB4225FG	\$1378.00

(Order circuit breaker from Buylog Section 3)

Not for Spectra® breakers. E and F frame enclosures for standard molded case circuit breakers only.

## Contactor Plugs – Add to price of required protective device bus plug

Ampere Rating	List Price Adder, GO-114L or M							
	Electronically Held	Mechanically Held	Pilot Light	Pushbutton Or Selector Switch	Control Transformer	Extra Interlock	Two-Wire Control	Auxiliary Contact
30	\$1756.00	\$2198.00	\$432.00	\$326.00	\$430.00	\$208.00	\$624.00	\$172.00
60	\$2522.00	\$3276.00	\$432.00	\$326.00	\$598.00	\$208.00	\$624.00	\$172.00
100	\$3250.00	\$4212.00	\$432.00	\$326.00	\$832.00	\$208.00	\$624.00	\$172.00

<sup>2</sup>Includes one secondary fuse.

## Options for Fusible Switch Units – Use for Spectra® Series Busway

Description	List Price, GO-114L						
	UL Listed	30 Amps	60 Amps	100 Amps	200 Amps	400 Amps	600 Amps
Factory installed Class R fuse clips Add "R" suffix to Product Number	Yes	\$96.00	\$96.00	\$96.00	\$122.00	\$130.00	\$138.00
Factory installed Class J fuse clips Add "J" suffix to 600 V plug Product Number	Yes	\$54.00	\$54.00	\$54.00	\$54.00	\$54.00	\$456.00 <sup>3</sup>
QMW in lieu of QMR Change "R" in Product Number to "W"	Yes	\$92.00	\$92.00	\$172.00	\$254.00	\$684.00	N/A

<sup>3</sup>UL listed for Spectra® Series and Armor-Clad plug-in busway only.



# Busway Spectra® Series Busway

Sandwich Bus, Plug Options, Protective Devices and Short-Circuit Ratings

## Spectra® Bus Plugs with TRANQUELL® TVSS Protection

Spectra® bus plugs are available with integral TRANQUELL® TVSS devices for a variety of location categories and exposure levels. Indicating lights communicate proper system operation. Ratings and specifications:

- Suitable for medium to high exposure, service entry or branch panel locations
- UL-1449, Second Edition; cUL and UL-1283 Recognized Component
- Maximum surge current ratings of 50kA, 80kA, and 100kA per mode—tested on a complete TVSS unit
- Repetitive surge current tested—ANSI/IEEE C62.41, Category C3: 100kA-5,000 impulses; 80kA-5,000 impulses; 50kA-3,500 impulses
- Noise filtering up to -44dB at 100kHz
- Refer to FES-006 for UL-1449, Second Edition SVR Values
- 65 kAIC



Spectra® TVSS bus plugs

## Spectra® Bus Plugs with TVSS Protection Three-Phase, Three-Wire

Maximum Surge Current Rating	Voltage	Power Type	Ground Fault	TVSS Product Number	Product Number	List Price GO-114L
100kA	240V Delta	Delta	Yes	TME240D100	SB310TVSS240D	\$19500.00
100kA	480V Delta	Delta	Yes	TME480D100	SB310TVSS480D	\$19500.00
100kA	600V Delta	Delta	Yes	TME600D100	SB310TVSS600D	\$19500.00

## Spectra® Bus Plugs with TVSS Protection Three-Phase, Four-Wire

Maximum Surge Current Rating	Voltage	Power Type	Ground Fault	TVSS Product Number	Product Number	List Price GO-114L
100kA	208Y/120V	Wye	Yes	TME120Y100	SB410TVSS208Y	\$20010.00
100kA	240Y/138V	Wye	Yes	TME240Y100	SB410TVSS240Y	\$20010.00
100kA	480Y/277V	Wye	Yes	TME277Y100	SB410TVSS480Y	\$20010.00
100kA	600Y/346V	Wye	Yes	TME347Y100	SB410TVSS600Y	\$20010.00

## Spectra® Bus Plugs with TVSS Protection Three-Phase, Three-Wire

Maximum Surge Current Rating	Voltage	Power Type	Ground Fault	TVSS Product Number	Product Number	List Price GO-114L
80kA	240V Delta	Delta	Yes	TME240D080	SB38TVSS240D	\$12080.00
80kA	480V Delta	Delta	Yes	TME480D080	SB38TVSS480D	\$12080.00
80kA	600V Delta	Delta	Yes	TME600D080	SB38TVSS600D	\$12080.00

## Spectra® Bus Plugs with TVSS Protection Three-Phase, Four-Wire

Maximum Surge Current Rating	Voltage	Power Type	Ground Fault	TVSS Product Number	Product Number	List Price GO-114L
80kA	208Y/120V	Wye	Yes	TME120Y080	SB48TVSS208Y	\$12450.00
80kA	240Y/138V	Wye	Yes	TME240Y080	SB48TVSS240Y	\$12450.00
80kA	480Y/277V	Wye	Yes	TME277Y080	SB48TVSS480Y	\$12450.00
80kA	600Y/346V	Wye	Yes	TME347Y080	SB48TVSS600Y	\$12450.00

## Spectra® Bus Plugs with TVSS Protection Three-Phase, Three-Wire

Maximum Surge Current Rating	Voltage	Power Type	Ground Fault	TVSS Product Number	Product Number	List Price GO-114L
50kA	240V Delta	Delta	Yes	TME240D065	SB35TVSS240D	\$11110.00
50kA	480V Delta	Delta	Yes	TME480D065	SB35TVSS480D	\$11110.00
50kA	600V Delta	Delta	Yes	TME600D065	SB35TVSS600D	\$11110.00

## Spectra® Bus Plugs with TVSS Protection Three-Phase, Four-Wire

Maximum Surge Current Rating	Voltage	Power Type	Ground Fault	TVSS Product Number	Product Number	List Price GO-114L
50kA	208Y/120V	Wye	Yes	TME120Y065	SB45TVSS208Y	\$11370.00
50kA	240Y/138V	Wye	Yes	TME240Y065	SB45TVSS240Y	\$11370.00
50kA	480Y/277V	Wye	Yes	TME277Y065	SB45TVSS480Y	\$11370.00
50kA	600Y/346V	Wye	Yes	TME347Y065	SB45TVSS600Y	\$11370.00





# Busway Spectra® Series Busway

Sandwich Bus, Reducer Cubicles and Special Adapter Cubicles

With Aluminum or Copper Bus Bars—  
Add Footage of Higher Rated Bus through the Cubicle

Device			List Price, GO-126S					
Adapter Type	Frame		Ampere Rating	3-Pole		3-Phase 4-Wire		
	Construction	Type		240 V	600 V	208 V/ 120 V	480 V/ 277 V	
Fusible Switches	High Pressure Contact	QMR (No fuses included)	200	\$2084.00	\$2211.00	\$2211.00	\$2335.00	
			400	\$2558.00	\$2719.00	\$2792.00	\$2949.00	
			600	\$2915.00	\$3228.00	\$3206.00	\$3496.00	
			800	\$4580.00	\$5063.00	\$4635.00	\$4925.00	
			1200	\$4904.00	\$5641.00	\$5417.00	\$6143.00	
	Manually Operated	HPC (No fuses included)	800	\$9150.00	\$9929.00	\$9838.00	\$10375.00	
			1200	\$10488.00	\$11164.00	\$11503.00	\$12109.00	
			1600	\$12109.00	\$12888.00	\$13436.00	\$14134.00	
			2000	\$13640.00	\$14284.00	\$15305.00	\$15986.00	
			2500	\$17925.00	\$18580.00	\$19580.00	\$20648.00	
Molded-Case Circuit Breakers	Standard	SSF	3000	\$27924.00	\$28568.00	\$30394.00	\$31039.00	
			4000	\$38342.00	\$39089.00	\$42316.00	\$43067.00	
			TFJ 70-225	\$2826.00		\$2949.00		
			TFK 70-225	\$2982.00		\$3082.00		
			TJJ 125-400	\$3463.00		\$3597.00		
			TJK4 125-400	\$3686.00		\$3843.00		
			TJK6 450-600	\$4970.00		\$5105.00		
			TKM8 700-800	\$5808.00		\$5986.00		
			TKM12 1000	\$6601.00		\$6791.00		
			TKM12 1200	\$7976.00		\$8165.00		
Hi-Break®	Hi-Break®	THKM8	600-1600	\$11896.00		\$12063.00		
			2000, 2500, 3000	\$13002.00		\$13225.00		
			THFK 70-225	\$3843.00		\$3943.00		
			THJK4 125-400	\$4580.00		\$4747.00		
			THKM8 300-600	\$5540.00		\$5663.00		
	Tri-Break®	Tri-Break®	THKM12	700-800	\$6377.00		\$6568.00	
				1000	\$7182.00		\$7361.00	
				1200	\$8545.00		\$8746.00	
				TB4 125-225	\$4635.00		\$4747.00	
				TB6 250-400	\$5506.00		\$5641.00	
Tri-Break®	Tri-Break®	TB8	300-600	\$8332.00		\$8444.00		
			700-800	\$8422.00		\$8813.00		

## Joint-Guard Protection System

Bus Type	Service	Ampere Rating		No. Bolts per Kit	Kit No. (1 per Joint)	List Price	GO Schedule
		Aluminum	Copper				
Spectra	3-Wire	225 to 1350	225 to 2000	1	JGSB1 1	\$110.00	GO-126S
		2000 to 3000	250 to 4000	2	JGSB1 2	\$220.00	GO-126S
		4000	5000	4	JGSB1 4	\$440.00	GO-126S
	3-Wire Grd.	225 to 1350	225 to 2000	1	JGSB2 1	\$110.00	GO-126S
		2000 to 3000	250 to 4000	2	JGSB2 2	\$220.00	GO-126S
		4000	5000	4	JGSB2 4	\$440.00	GO-126S
LowAmp	4-Wire	225 to 1350	225 to 2000	1	JGSB3 1	\$110.00	GO-126S
		2000 to 3000	250 to 4000	2	JGSB3 2	\$220.00	GO-126S
		4000	5000	4	JGSB3 4	\$440.00	GO-126S
	4-Wire Grd.	225 to 1350	225 to 2000	1	JGSB4 1	\$110.00	GO-126S
		2000 to 3000	250 to 4000	2	JGSB4 2	\$220.00	GO-126S
		4000	5000	4	JGSB4 4	\$440.00	GO-126S
LowAmp	All	All	All	1	JGSB5 1	\$172.00	GO-126L

## Miscellaneous Accessories

### Hook Sticks

Length (Feet)	Product Number	List Price, GO-114L
8	DFHSE8	\$245.00
12	DFHSE12	\$284.00
16	DFHSE16	\$314.00

### Compression Lugs

For Tap Boxes, Power Takeoffs and Flanged Ends

Description	List Price, GO-126S
2/0-300 kcmil	\$30.00
500 kcmil	\$40.00
600-750 kcmil	\$58.00
1000 kcmil	\$80.00

## Flexible Connections

For Transformer Throats

Ampere Rating	List Price, GO-126S	
	3P	4P
0-1600A	\$1662.00	\$2216.00
2000A-3000A	\$3324.00	\$4432.00
4000A	\$4986.00	\$6648.00
5000A	\$6648.00	\$8864.00

Optional joint bolt indicator repeatedly changes colors to indicate proper joint torque.



# Busway Spectra® Series Busway

Sandwich Bus, Plugs, Outlines and Dimensions

## Spectra® RMS Circuit Breaker Busway Plugs Outer Dimensions

Tier	Frame Type	Width (in.)	Length (in.)	Depth (in.)	Handle Height <sup>1</sup>	Weight (Lbs.)	Plug-in Outlets	Figure
Lowest	SED	11	13	8	9.12	25	1	A
Low	SEH	11	13	8	9.12	25	1	A
Low	SFH	11	21.25	9	9.5	41	1	A
Low	SGH	16.75	26.5	12	18	91	2	B
Low	SKH <sup>2</sup>	16.75	36.5	12	18	160	2	B
Mid	SEL	11	13	8	9.12	25	1	A
Mid	SFL	11	21.25	9	9.5	41	1	A
Mid	SGL	16.75	26.5	12	18	91	2	B
Mid	SKL <sup>2</sup>	16.75	36.5	12	18	160	2	B
Peak	SEP	11	13	8	9.12	25	1	A
Peak	SFP	11	21.25	9	9.5	41	1	A
Peak	SGP	16.75	26.5	12	18	91	2	B
Peak	SKP <sup>2</sup>	16.75	36.5	12	18	160	2	B

<sup>1</sup>Maximum distance from enclosure bottom to handle tip.

<sup>2</sup>For ground fault option, increase width dimension by 2.125 inches and length dimension by 6 inches.

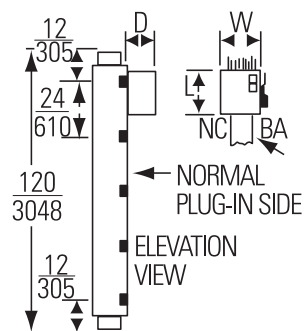
## Standard Molded Case Circuit Breaker

Type	Frame Type	Width (in.)	Length (in.)	Depth (in.)	Figure
Standard and Hi-Break	TEB	11	13	8	A
	TED4	11	13	8	A
	THED	11	13	8	A
	TFJ	11	18.5	9.5	A
	TFK	11	18.5	9.5	A
	THFK	11	18.5	9.5	A
	TJJ	16.75	24.5	12	B
	TJK4	16.75	24.5	12	B
	TJK6	16.75	24.5	12	B
	THJK4	16.75	24.5	12	B
THJK6	16.75	24.5	12	B	
Tri-Break®	TKM8, THKM8, THK, KM	16.75	36.5	12	A
	TB1	11.00	18.50	8	A
	TB4	16.75	30.5	12	B
	TB6	16.75	45.25	12	B
	TB8	16.75	45.25	12	B

## Fusible Outer Dimensions

Type	Voltage	Amperage	Weight (Lbs.)	Width (in.)	Length (in.) Standard Gutter	Length (in.) Extended Gutter	Depth (in.)	Figure
QMR	240 and 600 VAC	30	24	11.25	13	18.75	8.75	A
QMR	240 and 600 VAC	60	25	11.25	13	18.75	8.75	A
QMR	240 and 600 VAC	100	28	11.25	18.75	N/A	8.75	A
QMR	240 and 600 VAC	200	46	16	18.75	24.5	8.75	A
QMR	240 and 600 VAC	400	135	20.5	18.75	N/A	18.75	B
QMR	240 and 600 VAC	600	160	20.5	24.5	N/A	18.75	B

NA = Not Available



Typical Vertical Application

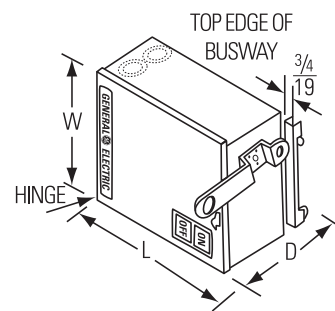


Figure A: Door hinges at left end. All dimensions are shown over largest part of plug.

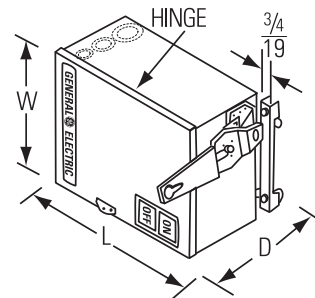


Figure B: Door hinges top. All dimensions are shown over largest part of plug.

Decimal	Fraction
.12	1/8
.38	3/8
.63	5/8
.88	7/8



# Busway Spectra® Series Busway

LowAmp, Circuit Breaker Busway Plugs

## Features and Benefits

- Rating Plug: simplifies factory floor and equipment changeovers because plug has trip/amp interchangeability.
- True Digital rms Sensing: more accurate and reliable trip interruption.
- High Interrupting Rating: satisfies high IC requirements up to 100 kAIC @ 480V.
- UL Listed and CSA Certified: for heat rise, short-circuit, and ground fault.
- Interlocks and Safety Features: door interlock, plug interlock, ground contact before stab contact, and plug assist for mechanical installation.

Breakers must be factory-installed.

## Low-Tier Frames Three-Phase, Three-Wire SEDA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600V (kAIC)	Product Number	List Price GO-112M
15	18	14	14	SL31SEDG	\$1506.00
20	18	14	14	SL32SEDG	\$1506.00
30	18	14	14	SL33SEDG	\$1506.00
40	18	14	14	SL34SEDG	\$1506.00
50	18	14	14	SL35SEDG	\$1506.00
60	18	14	14	SL36SEDG	\$1506.00
70	18	14	14	SL37SEDG	\$1658.00
80	18	14	14	SL38SEDG	\$1658.00
90	18	14	14	SL39SEDG	\$1658.00
100	18	14	14	SL310SEDG	\$1658.00
110	18	14	14	SL311SEDG	\$3872.00
125	18	14	14	SL312SEDG	\$3872.00
150	18	14	14	SL315SEDG	\$3872.00

## Low-Tier Frames Three-Phase, Three-Wire SEHA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600V (kAIC)	Product Number	List Price GO-112M
15	65	25	18	SL31SEHG	\$1908.00
20	65	25	18	SL32SEHG	\$1908.00
30	65	25	18	SL33SEHG	\$1908.00
40	65	25	18	SL34SEHG	\$1908.00
50	65	25	18	SL35SEHG	\$1908.00
60	65	25	18	SL36SEHG	\$1908.00
70	65	25	18	SL37SEHG	\$2168.00
80	65	25	18	SL38SEHG	\$2168.00
90	65	25	18	SL39SEHG	\$2168.00
100	65	25	18	SL310SEHG	\$2168.00
110	65	25	18	SL311SEHG	\$4326.00
125	65	25	18	SL312SEHG	\$4326.00
150	65	25	18	SL315SEHG	\$4326.00

## Low-Tier Frames Three-Phase, Three-Wire SFHA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600V (kAIC)	Product Number	List Price GO-112M
70	65	25	18	SL37SFHG	\$4326.00
90	65	25	18	SL39SFHG	\$4326.00
100	65	25	18	SL310SFHG	\$4326.00
110	65	25	18	SL311SFHG	\$4326.00
125	65	25	18	SL312SFHG	\$4326.00
150	65	25	18	SL315SFHG	\$4326.00
175	65	25	18	SL317SFHG	\$4326.00
200	65	25	18	SL320SFHG	\$4326.00
225	65	25	18	SL322SFHG	\$4326.00
250	65	25	18	SL325SFHG	\$4326.00

## Low-Tier Frames Three-Phase, Four-Wire SEDA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600V (kAIC)	Product Number	List Price GO-112M
15	18	14	14	SL41SEDG	\$1636.00
20	18	14	14	SL42SEDG	\$1636.00
30	18	14	14	SL43SEDG	\$1636.00
40	18	14	14	SL44SEDG	\$1636.00
50	18	14	14	SL45SEDG	\$1636.00
60	18	14	14	SL46SEDG	\$1636.00
70	18	14	14	SL47SEDG	\$1788.00
80	18	14	14	SL48SEDG	\$1788.00
90	18	14	14	SL49SEDG	\$1788.00
100	18	14	14	SL410SEDG	\$1788.00
110	18	14	14	SL411SEDG	\$4002.00
125	18	14	14	SL412SEDG	\$4002.00
150	18	14	14	SL415SEDG	\$4002.00

## Low-Tier Frames Three-Phase, Four-Wire SEHA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600V (kAIC)	Product Number	List Price GO-112M
15	65	25	18	SL41SEHG	\$2038.00
20	65	25	18	SL42SEHG	\$2038.00
30	65	25	18	SL43SEHG	\$2038.00
40	65	25	18	SL44SEHG	\$2038.00
50	65	25	18	SL45SEHG	\$2038.00
60	65	25	18	SL46SEHG	\$2038.00
70	65	25	18	SL47SEHG	\$2194.00
80	65	25	18	SL48SEHG	\$2194.00
90	65	25	18	SL49SEHG	\$2194.00
100	65	25	18	SL410SEHG	\$2194.00
110	65	25	18	SL411SEHG	\$4444.00
125	65	25	18	SL412SEHG	\$4444.00
150	65	25	18	SL415SEHG	\$4444.00



# Busway Spectra® Series Busway (continued)

LowAmp, Circuit Breaker Busway Plugs

## Low-Tier Frames Three-Phase, Four-Wire SFHA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600V (kAIC)	Product Number	List Price GO-112M
70	65	25	18	SL47SFHG	\$4444.00
90	65	25	18	SL49SFHG	\$4444.00
100	65	25	18	SL410SFHG	\$4444.00
110	65	25	18	SL411SFHG	\$4444.00
125	65	25	18	SL412SFHG	\$4444.00
150	65	25	18	SL415SFHG	\$4444.00
175	65	25	18	SL417SFHG	\$4444.00
200	65	25	18	SL420SFHG	\$4444.00
225	65	25	18	SL422SFHG	\$4444.00
250	65	25	18	SL425SFHG	\$4444.00

## Mid-Tier Frames Three-Phase, Four-Wire SFLA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600V (kAIC)	Product Number	List Price GO-112M
70	100	65	25	SL47SFLG	\$8054.00
90	100	65	25	SL49SFLG	\$8054.00
100	100	65	25	SL410SFLG	\$8054.00
110	100	65	25	SL411SFLG	\$8054.00
125	100	65	25	SL412SFLG	\$8054.00
150	100	65	25	SL415SFLG	\$8054.00
175	100	65	25	SL417SFLG	\$8054.00
200	100	65	25	SL420SFLG	\$8054.00
225	100	65	25	SL422SFLG	\$8054.00
250	100	65	25	SL425SFLG	\$8054.00

## Mid-Tier Frames Three-Phase, Three-Wire SELA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600V (kAIC)	Product Number	List Price GO-112M
15	100	65	25	SL31SELG	\$2910.00
20	100	65	25	SL32SELG	\$2910.00
30	100	65	25	SL33SELG	\$2910.00
40	100	65	25	SL34SELG	\$2910.00
50	100	65	25	SL35SELG	\$2910.00
60	100	65	25	SL36SELG	\$2910.00
70	100	65	25	SL37SELG	\$3430.00
80	100	65	25	SL38SELG	\$3430.00
90	100	65	25	SL39SELG	\$3430.00
100	100	65	25	SL310SELG	\$3430.00
110	100	65	25	SL311SELG	\$7252.00
125	100	65	25	SL312SELG	\$7252.00
150	100	65	25	SL315SELG	\$7252.00

## Without Rating Plug Three-Phase, Three-Wire

Frame Type	Trip Amps	Product Number	List Price GO-112M
SEDGA	15-30	SL301SEDG	\$1376.00
SEDGA	40-60	SL302SEDG	\$1376.00
SEDGA	70-100	SL303SEDG	\$1528.00
SEDGA	110-150	SL304SEDG	\$3742.00
SEHGA	15-30	SL301SEHG	\$1778.00
SEHGA	40-60	SL302SEHG	\$1778.00
SEHGA	70-100	SL303SEHG	\$1944.00
SEHGA	110-150	SL304SEHG	\$4196.00
SFHGA	70-250	SL300SFHG	\$4196.00
SELGA	15-30	SL301SELG	\$2910.00
SELGA	40-60	SL302SELG	\$2910.00
SELGA	70-100	SL303SELG	\$3430.00
SELGA	110-150	SL304SELG	\$7252.00
SFLGA	70-250	SL300SFLG	\$7638.00
SEPGA	15-30	SL301SEPG	\$3872.00
SEPGA	40-60	SL302SEPG	\$3872.00
SEPGA	70-100	SL303SEPG	\$4652.00
SEPGA	110-150	SL304SEPG	\$9852.00

## Mid-Tier Frames Three-Phase, Three-Wire SFLA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600V (kAIC)	Product Number	List Price GO-112M
70	100	65	25	SL37SFLG	\$7768.00
90	100	65	25	SL39SFLG	\$7768.00
100	100	65	25	SL310SFLG	\$7768.00
110	100	65	25	SL311SFLG	\$7768.00
125	100	65	25	SL312SFLG	\$7768.00
150	100	65	25	SL315SFLG	\$7768.00
175	100	65	25	SL317SFLG	\$7768.00
200	100	65	25	SL320SFLG	\$7768.00
225	100	65	25	SL322SFLG	\$7768.00
250	100	65	25	SL325SFLG	\$7768.00

## Without Rating Plug Three-Phase, Four-Wire

Frame Type	Trip Amps	Product Number	List Price GO-112M
SEDA	15-30	SL401SEDG	\$1506.00
SEDA	40-60	SL402SEDG	\$1506.00
SEDA	70-100	SL403SEDG	\$1658.00
SEDA	110-150	SL404SEDG	\$3872.00
SEHA	15-30	SL401SEHG	\$2428.00
SEHA	40-60	SL402SEHG	\$2428.00
SEHA	70-100	SL403SEHG	\$2594.00
SEHA	110-150	SL404SEHG	\$4314.00
SFHA	70-250	SL400SFHG	\$4314.00
SELA	15-30	SL401SELG	\$3170.00
SELA	40-60	SL402SELG	\$3170.00
SELA	70-100	SL403SELG	\$7512.00
SELA	110-150	SL404SELG	\$8054.00
SFLA	70-250	SL400SFLG	\$7924.00

## Mid-Tier Frames Three-Phase, Four-Wire SELA

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600V (kAIC)	Product Number	List Price GO-112M
15	100	65	25	SL41SELG	\$3170.00
20	100	65	25	SL42SELG	\$3170.00
30	100	65	25	SL43SELG	\$3170.00
40	100	65	25	SL44SELG	\$3170.00
50	100	65	25	SL45SELG	\$3170.00
60	100	65	25	SL46SELG	\$3170.00
70	100	65	25	SL47SELG	\$3690.00
80	100	65	25	SL48SELG	\$3690.00
90	100	65	25	SL49SELG	\$3690.00
100	100	65	25	SL410SELG	\$3690.00
110	100	65	25	SL411SELG	\$7512.00
125	100	65	25	SL412SELG	\$7512.00
150	100	65	25	SL415SELG	\$7512.00



# Busway Spectra® Series Busway (continued)

LowAmp, Circuit Breaker Busway Plugs

## Circuit Breaker Plugs - Standard Frames Three-Phase, Three-Wire TEB

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Product Number	List Price GO-112M
15	10	SL31EBG	\$1112.00
20	10	SL32EBG	\$1112.00
30	10	SL33EBG	\$1112.00
40	10	SL34EBG	\$1112.00
50	10	SL35EBG	\$1112.00
60	10	SL36EBG	\$1112.00
70	10	SL37EBG	\$1342.00
100	10	SL310EBG	\$1342.00

## Circuit Breaker Plugs - Standard Frames Three-Phase, Three-Wire TED4

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Product Number	List Price GO-112M
15	18	14	SL31ED4G	\$1386.00
20	18	14	SL32ED4G	\$1386.00
30	18	14	SL33ED4G	\$1386.00
40	18	14	SL34ED4G	\$1386.00
50	18	14	SL35ED4G	\$1386.00
60	18	14	SL36ED4G	\$1386.00
70	18	14	SL37ED4G	\$1542.00
100	18	14	SL310ED4G	\$1542.00

## Circuit Breaker Plugs - Standard Frames Three-Phase, Three-Wire TED6

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600V (kAIC)	Product Number	List Price GO-112M
15	18	14	14	SL31ED6G	\$1528.00
20	18	14	14	SL32ED6G	\$1528.00
30	18	14	14	SL33ED6G	\$1528.00
40	18	14	14	SL34ED6G	\$1528.00
50	18	14	14	SL35ED6G	\$1528.00
60	18	14	14	SL36ED6G	\$1528.00
70	18	14	14	SL37ED6G	\$1684.00
100	18	14	14	SL310ED6G	\$1684.00

## Circuit Breaker Plugs - Standard Frames Three-Phase, Four-Wire TEB

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Product Number	List Price GO-112M
15	10	SL41EBG	\$1242.00
20	10	SL42EBG	\$1242.00
30	10	SL43EBG	\$1242.00
40	10	SL44EBG	\$1242.00
50	10	SL45EBG	\$1242.00
60	10	SL46EBG	\$1242.00
70	10	SL47EBG	\$1456.00
100	10	SL410EBG	\$1456.00

## Circuit Breaker Plugs - Standard Frames Three-Phase, Four-Wire TED4

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Product Number	List Price GO-112M
15	18	14	SL41ED4G	\$1528.00
20	18	14	SL42ED4G	\$1528.00
30	18	14	SL43ED4G	\$1528.00
40	18	14	SL44ED4G	\$1528.00
50	18	14	SL45ED4G	\$1528.00
60	18	14	SL46ED4G	\$1528.00
70	18	14	SL47ED4G	\$1656.00
100	18	14	SL410ED4G	\$1656.00

## Circuit Breaker Plugs - Standard Frames Three-Phase, Four-Wire TED6

Trip Amps	Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600V (kAIC)	Product Number	List Price GO-112M
15	18	14	14	SL41ED6G	\$1640.00
20	18	14	14	SL42ED6G	\$1640.00
30	18	14	14	SL43ED6G	\$1640.00
40	18	14	14	SL44ED6G	\$1640.00
50	18	14	14	SL45ED6G	\$1640.00
60	18	14	14	SL46ED6G	\$1640.00
70	18	14	14	SL47ED6G	\$1812.00
100	18	14	14	SL410ED6G	\$1812.00

## Enclosure Only

Service Type	Frame Type	Trip Amps	Product Number	List Price GO-112M
Three-Phase, Three-Wire	E	100 A max.	SL3100EG	\$728.00
Three-Phase, Three-Wire	F	225 A max.	SL3225FG	\$1196.00
Four-Wire	E	100 A max.	SL4100EG	\$794.00
Three-Phase, Four-Wire	F	225 A max.	SL4225FG	\$1378.00

(Order circuit breaker from Buylog Section 3)

Not for Spectra® breakers. E and F frame enclosures for standard molded case circuit breakers only.



# Busway Spectra® Series Busway

LowAmp, Busway Plugs, Fusible, Conversion Kits

## Switch-Operated Fusible Plugs Three-Phase, Three-Wire

Voltage	Trip Amps	Product Number	List Price GO-112L
240Vac	30	SL321RG	<b>\$822.00</b>
240Vac	60	SL322RG	<b>\$904.00</b>
240Vac	100	SL323RG	<b>\$1264.00</b>
240Vac	200	SL324RG	<b>\$2152.00</b>
240Vac	400	SL325RG	<b>\$5626.00</b>
480/600Vac	30	SL361RG	<b>\$904.00</b>
480/600Vac	60	SL362RG	<b>\$938.00</b>
480/600Vac	100	SL363RG	<b>\$1316.00</b>
480/600Vac	200	SL364RG	<b>\$2252.00</b>
480/600Vac	400	SL365RG	<b>\$5694.00</b>

With QMR Interrupter Fuses Not Included

## Switch-Operated Fusible Plugs Three-Phase, Four-Wire

Voltage	Trip Amps	Product Number	List Price GO-112L
240	30	SL421RG	<b>\$972.00</b>
240	60	SL422RG	<b>\$1038.00</b>
240	100	SL423RG	<b>\$1414.00</b>
240	200	SL424RG	<b>\$2412.00</b>
240	400	SL425RG	<b>\$6006.00</b>
480/600	30	SL461RG	<b>\$1038.00</b>
480/600	60	SL462RG	<b>\$1072.00</b>
480/600	100	SL463RG	<b>\$1514.00</b>
480/600	200	SL464RG	<b>\$2496.00</b>
480/600	400	SL465RG	<b>\$6078.00</b>

With QMR Interrupter Fuses Not Included

## Adapter Kits

Convert Spectra® Series LowAmp plugs to Spectra® Series Bus. Ground stabs included.

Amperage	Product Number	List Price GO-112L
30-100	SLSB1G	<b>\$128.00</b>
200-250	SLSB4G	<b>\$294.00</b>
400-600	SLSB5G	<b>\$442.00</b>

## Adapter Kits

Convert Spectra® Series Bus Plugs to Spectra® LowAmp Bus. (Style 2—shipped after 5/95.) Ground stabs included.

Amperage	Product Number	List Price GO-114L
30-100	SBSL1G	<b>\$128.00</b>
200-225	SBSL4G	<b>\$294.00</b>
400-600	SBSL5G	<b>\$442.00</b>

## Adapter Kits

Convert Armor-Clad to Spectra® Series LowAmp (Style 8 shipped after 5/95.) Ground stabs included.

Amperage	Product Number	List Price GO-112L
30-100	ACSL1G	<b>\$128.00</b>
200-225	ACSL4G	<b>\$294.00</b>
400	ACSL5G	<b>\$442.00</b>

## Fusible Switch Unit Options

Use for Spectra® Series Busway

Description	UL Listed	List Price, GO-112L				
		30 Amp	60 Amp	100 Amp	200 Amp	400 Amp
Factory-installed Class R fuse clips. Add "R" suffix to Product Number	Yes	<b>\$96.00</b>	<b>\$96.00</b>	<b>\$96.00</b>	<b>\$122.00</b>	<b>\$130.00</b>
Factory-installed Class J fuse clips. Add "J" suffix to (600 V plug) Product Number	Yes	<b>\$54.00</b>	<b>\$54.00</b>	<b>\$54.00</b>	<b>\$54.00</b>	<b>\$54.00</b>
QMW in lieu of QMR. Change "R" in Product Number to "W".	Yes	<b>\$92.00</b>	<b>\$92.00</b>	<b>\$172.00</b>	<b>\$254.00</b>	<b>\$684.00</b>

## Miscellaneous Plug Modifications

- Drip-Resistant Plug: includes cover and stab gasketing. Add suffix "I" to product number and \$156.00 list, GO-114L or M.
- Plug Assist: standard for plugs over 100 amperes. Add suffix "P" to the product number for plugs 100 amperes and below. \$94.00 list, GO-112L or M



# Busway Spectra® Series Busway

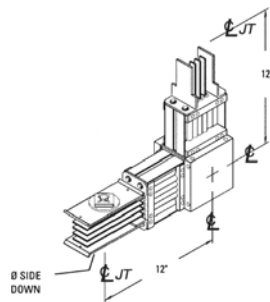
LowAmp, Busway, Outlines and Dimensions

## Fittings - Elbows, Tees and Offsets

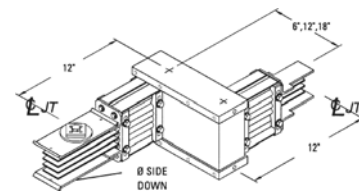
Spectra® Series LowAmp busway has a complete family of standard catalog fittings to meet virtually all layout requirements using the compact minimum sizes shown.

Nomenclature for completely defining the turn is accomplished by looking into the joint end with phase Ø side facing down on the busway. Using this guideline, a right elbow turns right, an up elbow turns up, etc.

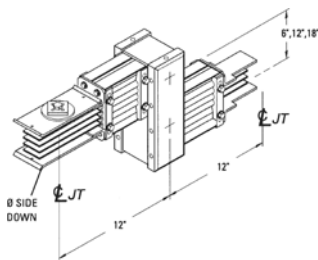
Every piece of busway is labeled to maintain proper phasing. Unless otherwise noted, all turn dimensions are defined from the centerline of the joint end to the centerline of the busway. Figures show dimensions for elbow, tee, and offset fittings.



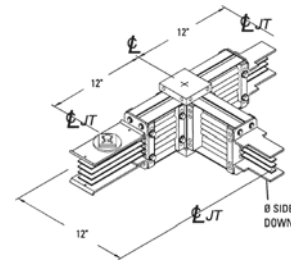
Up 90° Elbow Shown (Down 90° Elbow Reversed)



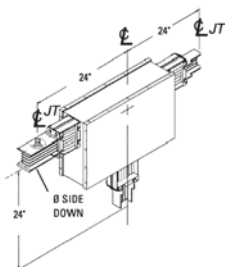
Offset Right Shown (Left Offset Reversed)



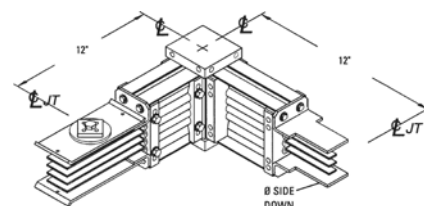
Offset Down Shown (Offset Up Reversed)



Tee Right Shown (Left Tee Reversed)



Tee Down Shown (Up Tee Reversed)



Elbow 90° Right Shown (Left Elbow Reversed)



# Busway Flex-A-Power® Busway

Type DH, Aluminum Conductors, Product Number Pricing

## Product Features

Type DH plug-in and feeder busway distributes power through a wide variety of indoor locations where there is a need for small blocks of conveniently available power. Type DH busway has a lower installed cost than wire and conduit, yet has all the advantages and features of plug-in busway. Available Ratings: 100 amperes, 600 volts, indoor enclosures only.

## Applications

Type DH busway provides a ready power source for small machines, portable electric tools, lights, and a variety of other equipment. Type DH busway can serve as either a plug-in or feeder system, with 10 outlets available in every 10-foot length. It may be tapped by circuit breaker, fusible or unfused plugs.

## Single-Phase, Three-Wire AC; Three-Wire DC Standard

Component	Type	Product Number	List Price GO-120
Linear Lengths	10-ft.	DP1HA01SL10	\$240.00
Linear Lengths	6 ft.	DP1HA01SL06	\$145.00
Linear Lengths	2-ft.	DP1HA01SL02	\$52.00
Accessories	End Tap Boxes Straight Bar end	DP1HA01TSST	\$52.00
Accessories	End Tap Boxes Offset Bar End	DP1HA01TOST	\$52.00
Accessories	Center (Joint) Tap Boxes	DP1HA01CCST	\$72.00
Accessories	End (Stub) Straight Bar end	DP1HA01SSST	\$138.00
Fittings	Offset Bar End	DP1HA01SOST	\$138.00

## Single-Phase, Three-Wire AC; Three-Wire DC Internal Ground Bar

Component	Type	Product Number	List Price GO-120
Linear Lengths	10-ft.	DP1GA01SL10	\$270.00
Linear Lengths	6 ft.	DP1GA01SL06	\$160.00
Linear Lengths	2-ft.	DP1GA01SL02	\$62.00
Accessories	End Tap Boxes Straight Bar end	DP1GA01TSST	\$58.00
Accessories	End Tap Boxes Offset Bar End	DP1GA01TOST	\$58.00
Accessories	Center (Joint) Tap Boxes	DP1GA01CCST	\$78.00
Accessories	End (Stub) Straight Bar end	DP1GA01SSST	\$145.00
Fittings	Offset Bar End	DP1GA01SOST	\$145.00

## Three-Phase, Three-Wire, AC Standard

Component	Type	Product Number	List Price GO-120
Linear Lengths	10-ft.	DP3HA01SL10	\$240.00
Linear Lengths	6 ft.	DP3HA01SL06	\$145.00
Linear Lengths	2-ft.	DP3HA01SL02	\$52.00
Accessories	End Tap Boxes Straight Bar end	DP3HA01TSST	\$52.00
Accessories	End Tap Boxes Offset Bar End	DP3HA01TOST	\$52.00
Accessories	Center (Joint) Tap Boxes	DP3HA01CCST	\$72.00
Accessories	End (Stub) Straight Bar end	DP3HA01SSST	\$138.00
Fittings	Offset Bar End	DP3HA01SOST	\$138.00

## Three-Phase, Three-Wire, AC Internal Ground Bar

Component	Type	Product Number	List Price GO-120
Linear Lengths	10-ft.	DP3GA01SL10	\$270.00
Linear Lengths	6 ft.	DP3GA01SL06	\$160.00
Linear Lengths	2-ft.	DP3GA01SL02	\$62.00
Accessories	End Tap Boxes Straight Bar end	DP3GA01TSST	\$58.00
Accessories	End Tap Boxes Offset Bar End	DP3GA01TOST	\$58.00
Accessories	Center (Joint) Tap Boxes	DP3GA01CCST	\$78.00
Accessories	End (Stub) Straight Bar end	DP3GA01SSST	\$145.00
Fittings	Offset Bar End	DP3GA01SOST	\$145.00

## Three-Phase, Four-Wire AC Standard

Component	Type	Product Number	List Price GO-120
Linear Lengths	10-ft.	DP4HA01SL10	\$250.00
Linear Lengths	6 ft.	DP4HA01SL06	\$150.00
Linear Lengths	2-ft.	DP4HA01SL02	\$56.00
Accessories	End Tap Boxes Straight Bar end	DP4HA01TSST	\$56.00
Accessories	End Tap Boxes Offset Bar End	DP4HA01TOST	\$56.00
Accessories	Center (Joint) Tap Boxes	DP4HA01CCST	\$75.00
Accessories	End (Stub) Straight Bar end	DP4HA01SSST	\$135.00
Fittings	Offset Bar End	DP4HA01SOST	\$135.00

## Three-Phase, Four-Wire AC Internal Ground Bar

Component	Type	Product Number	List Price GO-120
Linear Lengths	10-ft.	DP4GA01SL10	\$280.00
Linear Lengths	6 ft.	DP4GA01SL06	\$168.00
Linear Lengths	2-ft.	DP4GA01SL02	\$62.00
Accessories	End Tap Boxes Straight Bar end	DP4GA01TSST	\$60.00
Accessories	End Tap Boxes Offset Bar End	DP4GA01TOST	\$60.00
Accessories	Center (Joint) Tap Boxes	DP4GA01CCST	\$80.00
Accessories	End (Stub) Straight Bar end	DP4GA01SSST	\$140.00
Fittings	Offset Bar End	DP4GA01SOST	\$140.00





# Busway Flex-A-Power® Busway (continued)

Type DH, Aluminum Conductors, Product Number Pricing

## Devices Common to All Three- and Four-Wire Systems Standard

Component	Type	Product Number	List Price GO-120
Fittings	Elbows Up	DP4HA01EUST	\$50.00
Fittings	Elbows Down	DP4HA01EDST	\$50.00
Fittings	Elbows Left	DP4HA01ELST	\$50.00
Fittings	Elbows Right	DP4HA01ERST	\$50.00
Fittings	Tees Up	DP4HA01TUST	\$72.00
Fittings	Tees Down	DP4HA01TDST	\$72.00
Fittings	Tees Left	DP4HA01TLST	\$72.00
Fittings	Tees Right	DP4HA01TRST	\$72.00
Fittings	Crosses Up-Down	DP4HA01CDST	\$95.00
Fittings	Crosses Left-Right	DP4HA01CLST	\$95.00
Fittings	Reverse Fittings Straight Bar End	DP4HA01RSST	\$35.00
Fittings	Reverse Fittings Offset Bar End	DP4HA01ROST	\$35.00
Linear Lengths	Adjustable Lengths	DP4HA01ASST	\$275.00
Accessories	End Boxes	DP4HA01EBST	\$10.00
Accessories	Flanges	DH1F	\$8.00
Accessories	Outlet Covers	DH10C	\$10.00
Accessories	Hangers (Edgewise) Single Run	DE1HES	\$6.00
Accessories	Hangers (Edgewise) Single Run (wall/ceiling mtg.)	DH1HU1	\$6.00
Accessories	Hangers (Edgewise) Double Run	DE1HED	\$12.00

## Devices Common to All Three- and Four-Wire Systems Internal Ground Bar

Component	Type	Product Number	List Price GO-120
Fittings	Elbows Up	DP4GA01EUST	\$56.00
Fittings	Elbows Down	DP4GA01EDST	\$56.00
Fittings	Elbows Left	DP4GA01ELST	\$56.00
Fittings	Elbows Right	DP4GA01ERST	\$56.00
Fittings	Tees Up	DP4GA01TUST	\$82.00
Fittings	Tees Down	DP4GA01TDST	\$82.00
Fittings	Tees Left	DP4GA01TLST	\$82.00
Fittings	Tees Right	DP4GA01TRST	\$82.00
Fittings	Crosses Left-Right	DP4GA01CLST	\$110.00
Fittings	Crosses Up-Down	DP4GA01CDST	\$110.00
Fittings	Reverse Fittings Straight Bar End	DP4GA01RSST	\$38.00
Fittings	Reverse Fittings Offset Bar End	DP4GA01ROST	\$38.00
Linear Lengths	Adjustable Lengths	DP4GA01ASST	\$300.00
Accessories	End Boxes	DP4GA01EBST	\$10.00
Accessories	Flanges	DH1F	\$8.00
Accessories	Outlet Covers	DH10C	\$10.00
Accessories	Hangers (Edgewise) Single Run	DE1HES	\$6.00
Accessories	Hangers (Edgewise) Single Run (wall/ceiling mtg.)	DH1HU1	\$6.00
Accessories	Hangers (Edgewise) Double Run	DE1HED	\$12.00



# Busway Flex-A-Power® Busway

Type DH, Copper Conductors, Product Number Pricing

## Product Features

Type DH plug-in and feeder busway distributes power through a wide variety of indoor locations where there is a need for small blocks of conveniently available power. Type DH busway has a lower installed cost than wire and conduit, yet has all the advantages and features of plug-in busway. Available Ratings: 100 amperes, 600 volts, indoor enclosures only.

## Applications

Type DH busway provides a ready power source for small machines, portable electric tools, lights, and a variety of other equipment. Type DH busway can serve as either a plug-in or feeder system, with 10 outlets available in every 10-foot length. It may be tapped by circuit breaker, fusible or unfused plugs.

## Single-Phase, Three-Wire AC; Three-Wire DC Standard

Component	Type	Product Number	List Price GO-120
Linear Lengths	10-ft.	DP1HC01SL10	\$275.00
Linear Lengths	6 ft.	DP1HC01SL06	\$165.00
Linear Lengths	2-ft.	DP1HC01SL02	\$65.00
Accessories	End Tap Boxes Straight Bar end	DP1HC01TSST	\$60.00
Accessories	End Tap Boxes Offset Bar End	DP1HC01TOST	\$60.00
Accessories	Center (Joint) Tap Boxes	DP1HC01CCST	\$82.00
Accessories	End (Stub) Straight Bar end	DP1HC01SSST	\$138.00
Fittings	Offset Bar End	DP1HC01SOST	\$138.00

## Single-Phase, Three-Wire AC; Three-Wire DC Internal Ground Bar

Component	Type	Product Number	List Price GO-120
Linear Lengths	10-ft.	DP1GC01SL10	\$325.00
Linear Lengths	6 ft.	DP1GC01SL06	\$200.00
Linear Lengths	2-ft.	DP1GC01SL02	\$70.00
Accessories	End Tap Boxes Straight Bar end	DP1GC01TSST	\$65.00
Accessories	End Tap Boxes Offset Bar End	DP1GC01TOST	\$65.00
Accessories	Center (Joint) Tap Boxes	DP1GC01CCST	\$90.00
Accessories	End (Stub) Straight Bar end	DP1GC01SSST	\$145.00
Fittings	Offset Bar End	DP1GC01SOST	\$145.00

## Three-Phase, Three-Wire, AC Standard

Component	Type	Product Number	List Price GO-120
Linear Lengths	10-ft.	DP3HC01SL10	\$275.00
Linear Lengths	6 ft.	DP3HC01SL06	\$165.00
Linear Lengths	2-ft.	DP3HC01SL02	\$65.00
Accessories	End Tap Boxes Straight Bar end	DP3HC01TSST	\$60.00
Accessories	End Tap Boxes Offset Bar End	DP3HC01TOST	\$60.00
Accessories	Center (Joint) Tap Boxes	DP3HC01CCST	\$82.00
Accessories	End (Stub) Straight Bar end	DP3HC01SSST	\$138.00
Fittings	Offset Bar End	DP3HC01SOST	\$138.00

## Three-Phase, Three-Wire, AC Internal Ground Bar

Component	Type	Product Number	List Price GO-120
Linear Lengths	10-ft.	DP3GC01SL10	\$325.00
Linear Lengths	6 ft.	DP3GC01SL06	\$200.00
Linear Lengths	2-ft.	DP3GC01SL02	\$70.00
Accessories	End Tap Boxes Straight Bar end	DP3GC01TSST	\$65.00
Accessories	End Tap Boxes Offset Bar End	DP3GC01TOST	\$65.00
Accessories	Center (Joint) Tap Boxes	DP3GC01CCST	\$90.00
Accessories	End (Stub) Straight Bar end	DP3GC01SSST	\$145.00
Fittings	Offset Bar End	DP3GC01SOST	\$145.00

## Three-Phase, Four-Wire AC Standard

Component	Type	Product Number	List Price GO-120
Linear Lengths	10-ft.	DP4HC01SL10	\$300.00
Linear Lengths	6 ft.	DP4HC01SL06	\$180.00
Linear Lengths	2-ft.	DP4HC01SL02	\$68.00
Accessories	End Tap Boxes Straight Bar end	DP4HC01TSST	\$62.00
Accessories	End Tap Boxes Offset Bar End	DP4HC01TOST	\$62.00
Accessories	Center (Joint) Tap Boxes	DP4HC01CCST	\$85.00
Accessories	End (Stub) Straight Bar end	DP4HC01SSST	\$145.00
Fittings	Offset Bar End	DP4HC01SOST	\$145.00

## Three-Phase, Four-Wire AC Internal Ground Bar

Component	Type	Product Number	List Price GO-120
Linear Lengths	10-ft.	DP4GC01SL10	\$350.00
Linear Lengths	6 ft.	DP4GC01SL06	\$210.00
Linear Lengths	2-ft.	DP4GC01SL02	\$75.00
Accessories	End Tap Boxes Straight Bar end	DP4GC01TSST	\$70.00
Accessories	End Tap Boxes Offset Bar End	DP4GC01TOST	\$70.00
Accessories	Center (Joint) Tap Boxes	DP4GC01CCST	\$100.00
Accessories	End (Stub) Straight Bar end	DP4GC01SSST	\$150.00
Fittings	Offset Bar End	DP4GC01SOST	\$150.00



# Busway Flex-A-Power® Busway (continued)

Type DH, Copper Conductors, Product Number Pricing

## Devices Common to All Three- and Four-Wire Systems Standard

Component	Type	Product Number	List Price GO-120
Fittings	Elbows Up	DP4HC01EUST	
Fittings	Elbows Down	DP4HC01EDST	<b>\$62.00</b>
Fittings	Elbows Left	DP4HC01ELST	<b>\$62.00</b>
Fittings	Elbows Right	DP4HC01ERST	<b>\$62.00</b>
Fittings	Tees Up	DP4HC01TUST	<b>\$90.00</b>
Fittings	Tees Down	DP4HC01TDST	<b>\$90.00</b>
Fittings	Tees Left	DP4HC01TLST	<b>\$90.00</b>
Fittings	Tees Right	DP4HC01TRST	<b>\$90.00</b>
Fittings	Crosses Up-Down	DP4HC01CDST	<b>\$115.00</b>
Fittings	Crosses Left-Right	DP4HC01CLST	<b>\$115.00</b>
Fittings	Reverse Fittings Straight Bar End	DP4HC01RSST	<b>\$40.00</b>
Fittings	Reverse Fittings Offset Bar End	DP4HC01ROST	<b>\$40.00</b>
Linear Lengths	Adjustable Lengths	DP4HC01ASST	<b>\$310.00</b>
Accessories	End Boxes	DP4HC01EBST	<b>\$10.00</b>
Accessories	Flanges	DH1F	<b>\$8.00</b>
Accessories	Outlet Covers	DH10C	<b>\$10.00</b>
Accessories	Hangers (Edgewise) Single Run	DE1HES	<b>\$6.00</b>
Accessories	Hangers (Edgewise) Single Run (wall/ceiling mtg.)	DH1HU1	<b>\$6.00</b>
Accessories	Hangers (Edgewise) Double Run	DE1HED	<b>\$12.00</b>

## Devices Common to All Three- and Four-Wire Systems Internal Ground Bar

Component	Type	Product Number	List Price GO-120
Fittings	Elbows Up	DP4GC01EUST	<b>\$68.00</b>
Fittings	Elbows Down	DP4GC01EDST	<b>\$68.00</b>
Fittings	Elbows Left	DP4GC01ELST	<b>\$68.00</b>
Fittings	Elbows Right	DP4GC01ERST	<b>\$68.00</b>
Fittings	Tees Up	DP4GC01TUST	<b>\$100.00</b>
Fittings	Tees Down	DP4GC01TDST	<b>\$100.00</b>
Fittings	Tees Left	DP4GC01TLST	<b>\$100.00</b>
Fittings	Tees Right	DP4GC01TRST	<b>\$100.00</b>
Fittings	Crosses Up-Down	DP4GC01CDST	<b>\$130.00</b>
Fittings	Crosses Left-Right	DP4GC01CLST	<b>\$130.00</b>
Fittings	Reverse Fittings Straight Bar End	DP4GC01RSST	<b>\$45.00</b>
Fittings	Reverse Fittings Offset Bar End	DP4GC01ROST	<b>\$45.00</b>
Linear Lengths	Adjustable Lengths	DP4GC01ASST	<b>\$330.00</b>
Accessories	End Boxes	DP4GC01EBST	<b>\$10.00</b>
Accessories	Flanges	DH1F	<b>\$8.00</b>
Accessories	Outlet Covers	DH10C	<b>\$10.00</b>
Accessories	Hangers (Edgewise) Single Run	DE1HES	<b>\$6.00</b>
Accessories	Hangers (Edgewise) Single Run (wall/ceiling mtg.)	DH1HU1	<b>\$6.00</b>
Accessories	Hangers (Edgewise) Double Run	DE1HED	<b>\$12.00</b>



# Busway Flex-A-Power® Busway

Type DH, Plugs

## Unfused - Type TB Three-Phase, Four-Wire, Single-Phase, Three-Wire

Amperage	Voltage	Product Number	List Price GO-120
60	600	DHIP4TB2	\$85.00

## Unfused - Type TB Three-Phase, Three-Wire

Amperage	Voltage	Product Number	List Price GO-120
60	600	DHIP3TB2	\$60.00

## Circuit Breaker Plugs - Type TQL Single-Phase, Three-Wire

Amperage	Frame Type	Voltage	Product Number	List Price GO-120
15-50	TQL	240 Max	DFPTQL3N	\$55.00
15-50	TQLX	240 Max	DFPTQLX3N	\$85.00
15-50	TQLR	240 Max	DFPTQLR3N	\$130.00
15-50	TQLRC	240 Max	DFPTQLRC4 <sup>1</sup>	\$160.00

(With Space Only for Three THQL Breaker Poles)  
Order breakers separately.

<sup>1</sup>"C" in Product Number indicates screw tightening housing clips.

## Circuit Breaker Plugs - Type TQL Three-Phase, Three-Wire

Amperage	Frame Type	Voltage	Product Number	List Price GO-120
15-50	TQL	240 Max	DFPTQL3	\$60.00
15-50	TQLX	240 Max	DFPTQLX3	\$90.00
15-50	TQLR	240 Max	DFPTQLR3	\$120.00

(With Space Only for Three THQL Breaker Poles)  
Order breakers separately.

## Circuit Breaker Plugs - Type TQL Three-Phase, Four-Wire

Amperage	Frame Type	Voltage	Product Number	List Price GO-120
15-50	TQL	240 Max	DFPTQL4	\$70.00
15-50	TQLX	240 Max	DFPTQLX4	\$100.00
15-50	TQLR	240 Max	DFPTQLR4	\$130.00
15-50	TQLC	240 Max	DFPTQLC4 <sup>1</sup>	\$105.00
15-50	TQLRC	240 Max	DFPTQLRC4 <sup>1</sup>	\$160.00

(With Space Only for Three THQL Breaker Poles)  
Order breakers separately.

<sup>1</sup>"C" in Product Number indicates screw tightening housing clips.

## Circuit Breaker Plugs - Type TE Single-Phase, Three-Wire

Amperage	Frame Type	Voltage	Product Number	List Price GO-120
15-70	TE	600 Max	DFPTE3N	\$130.00
15-70	TEX	600 Max	DFPTEX3N	\$160.00
15-70	TER	600 Max	DFPTER3N	\$190.00

(With Space Only for Three TEB or TED4 Breaker Poles)  
Order breakers separately.

## Circuit Breaker Plugs - Type TE Three-Phase, Three-Wire

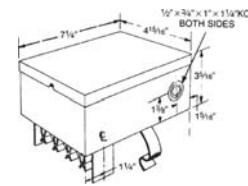
Amperage	Frame Type	Voltage	Product Number	List Price GO-120
15-70	TE	600 Max	DFPTE3	\$140.00
15-70	TEX	600 Max	DFPTEX3	\$170.00
15-70	TER	600 Max	DFPTER3	\$200.00

(With Space Only for Three TEB or TED4 Breaker Poles)  
Order breakers separately.

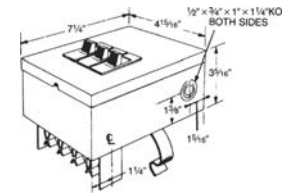
## Circuit Breaker Plugs - Type TE Three-Phase, Four-Wire

Amperage	Frame Type	Voltage	Product Number	List Price GO-120
15-70	TE	600 Max	DFPTE4	\$150.00
15-70	TEX	600 Max	DFPTEX4	\$180.00
15-70	TER	600 Max	DFPTER4	\$210.00
15-70	TEC	600 Max	DFPTEC4	\$180.00
15-70	TERC	600 Max	DFPTERC4	\$245.00

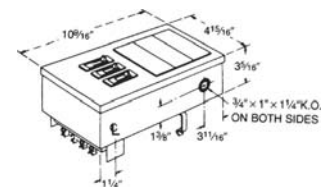
(With Space Only for Three TEB or TED4 Breaker Poles)  
Order breakers separately.



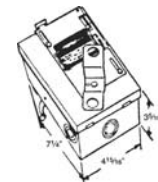
Type TB



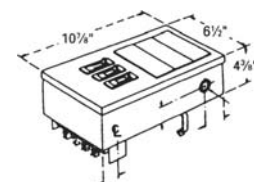
Handle-Operated Type TQL



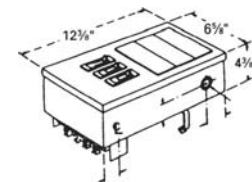
Type TQLR with Receptacle Provision



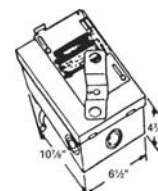
Type TQLX Externally Operated Handle



Handle-Operated TE



TER with Receptacle Provision



TEX Externally Operated Handle

# Busway Flex-A-Power® Busway

Type DH, Plugs

## Fusible - Type QMR Single-Phase, Three-Wire

Amperage	Voltage	Product Number	List Price GO-120
30	240	DH421R	\$365.00
60	240	DH422R	\$390.00
100	240	DH423R	\$560.00
30	600	DH461R	\$390.00
60	600	DH462R	\$405.00
100	600	DH463R	\$595.00

With Class H Fuse Clips  
Fuses Not Included

## Fusible - Type QMR Three-Phase, Three-Wire

Amperage	Voltage	Product Number	List Price GO-120
30	240	DH321R	\$305.00
60	240	DH322R	\$340.00
100	240	DH323R	\$495.00
30	600	DH361R	\$340.00
60	600	DH362R	\$360.00
100	600	DH363R	\$510.00

With Class H Fuse Clips  
Fuses Not Included

## Fusible - Type QMR Three-Phase, Four-Wire

Amperage	Voltage	Product Number	List Price GO-120
30	240	DH421R	\$365.00
60	240	DH422R	\$390.00
100	240	DH423R	\$560.00
30	600	DH461R	\$390.00
60	600	DH462R	\$405.00
100	600	DH463R	\$595.00

With Class H Fuse Clips  
Fuses Not Included

## Circuit Breakers Single-Phase, Three-Wire

Amperage	Frame Type	Voltage	Product Number <sup>1</sup>	List Price GO-120
15	TEB	240	DH41EB	\$580.00
20	TEB	240	DH42EB	\$580.00
30	TEB	240	DH43EB	\$580.00
40	TEB	240	DH44EB	\$580.00
50	TEB	240	DH45EB	\$580.00
70	TEB	240	DH47EB	\$690.00
100	TEB	240	DH410EB	\$690.00
15	TED4	480	DH41ED4	\$720.00
20	TED4	480	DH42ED4	\$720.00
30	TED4	480	DH43ED4	\$720.00
40	TED4	480	DH44ED4	\$720.00
50	TED4	480	DH45ED4	\$720.00
70	TED4	480	DH47ED4	\$790.00
100	TED4	480	DH410ED4	\$790.00
15	TED6	600	DH41ED6	\$780.00
20	TED6	600	DH42ED6	\$780.00
30	TED6	600	DH43ED6	\$780.00
40	TED6	600	DH44ED6	\$780.00
50	TED6	600	DH45ED6	\$780.00
70	TED6	600	DH47ED6	\$860.00
100	TED6	600	DH410ED6	\$860.00

Breakers are installed in factory.

<sup>1</sup>These are three-phase, four-wire plugs. The A phase is ignored.

## Circuit Breakers Three-Phase, Three-Wire

Amperage	Frame Type	Voltage	Product Number <sup>1</sup>	List Price GO-120
15	TEB	240	DH31EB	\$510.00
20	TEB	240	DH32EB	\$510.00
30	TEB	240	DH33EB	\$510.00
40	TEB	240	DH34EB	\$510.00
50	TEB	240	DH35EB	\$510.00
70	TEB	240	DH37EB	\$625.00
100	TEB	240	DH310EB	\$625.00
15	TED4	480	DH31ED4	\$650.00
20	TED4	480	DH32ED4	\$650.00
30	TED4	480	DH33ED4	\$650.00
40	TED4	480	DH34ED4	\$650.00
50	TED4	480	DH35ED4	\$650.00
70	TED4	480	DH37ED4	\$725.00
100	TED4	480	DH310ED4	\$725.00
15	TED6	600	DH31ED6	\$720.00
20	TED6	600	DH32ED6	\$720.00
30	TED6	600	DH33ED6	\$720.00
40	TED6	600	DH34ED6	\$720.00
50	TED6	600	DH35ED6	\$720.00
70	TED6	600	DH37ED6	\$800.00
100	TED6	600	DH310ED6	\$800.00

Breakers are installed in factory.

## Circuit Breakers Three-Phase, Four-Wire

Amperage	Frame Type	Voltage	Product Number <sup>1</sup>	List Price GO-120
15	TEB	240	DH41EB	\$580.00
20	TEB	240	DH42EB	\$580.00
30	TEB	240	DH43EB	\$580.00
40	TEB	240	DH44EB	\$580.00
50	TEB	240	DH45EB	\$580.00
70	TEB	240	DH47EB	\$690.00
100	TEB	240	DH410EB	\$690.00
15	TED4	480	DH41ED4	\$720.00
20	TED4	480	DH42ED4	\$720.00
30	TED4	480	DH43ED4	\$720.00
40	TED4	480	DH44ED4	\$720.00
50	TED4	480	DH45ED4	\$720.00
70	TED4	480	DH47ED4	\$790.00
100	TED4	480	DH410ED4	\$790.00
15	TED6	600	DH41ED6	\$780.00
20	TED6	600	DH42ED6	\$780.00
30	TED6	600	DH43ED6	\$780.00
40	TED6	600	DH44ED6	\$780.00
50	TED6	600	DH45ED6	\$780.00
70	TED6	600	DH47ED6	\$860.00
100	TED6	600	DH410ED6	\$860.00

Breakers are installed in factory.

<sup>1</sup>These are three-phase, four-wire plugs. The A phase is ignored.

## Type DH Plug Modifications

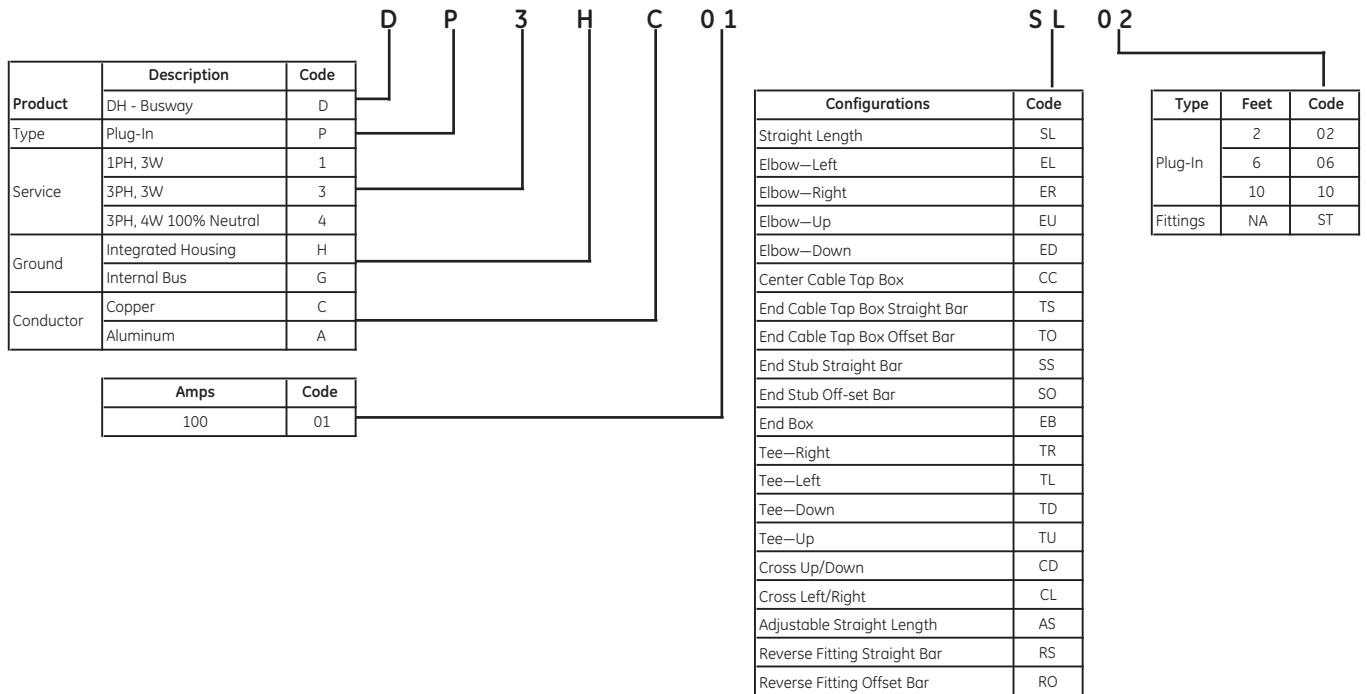
- Ground stab - for plugs used with internal ground bus, add \$17.00, GO-120.
- No-fuse switch plugs - price fused switch, then order by description.
- Class R Fuse Clips - add suffix R and price by rating 30 amp, 60 amp add \$40.00, GO-120; 100 amp add \$55.00, GO-120.
- Class J Fuse Clips - add suffix J and \$21.00, GO-120 for ratings 30 through 100 amps.



# Busway Flex-A-Power® Busway

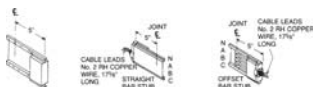
Type DH, Plugs

## DH—Busway Product Numbering System

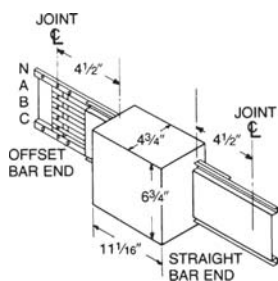


# Busway Flex-A-Power® Busway

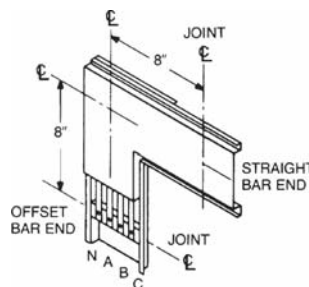
Type DH, Dimensions



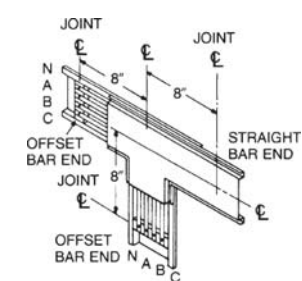
End Stub



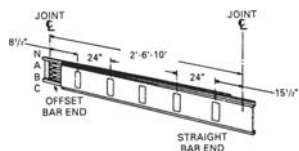
Center Joint Tap Box



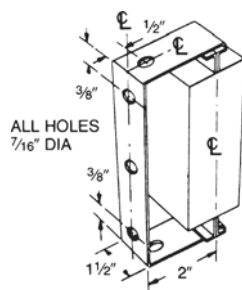
Elbow Down



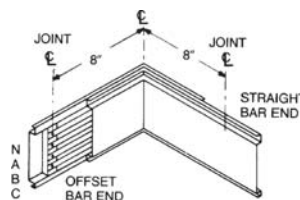
Tee Down



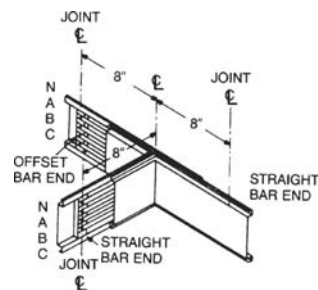
Linear Lengths



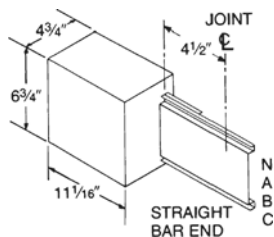
Single Run (wall/ceiling mtg)  
Hanger



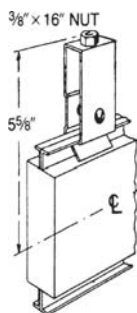
Elbow Left



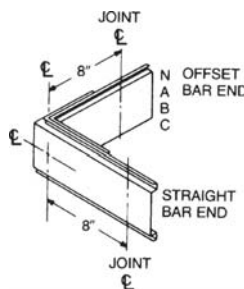
Tee Left



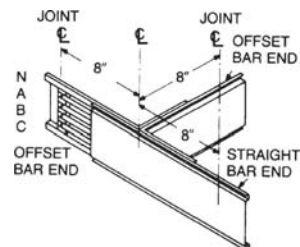
Tap Box-Straight Bar End



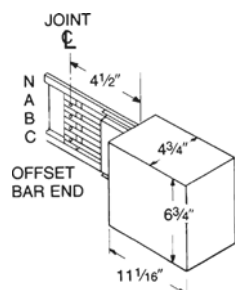
Hanger Edgewise



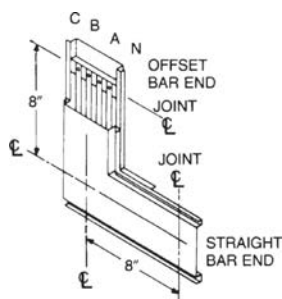
Elbow Right



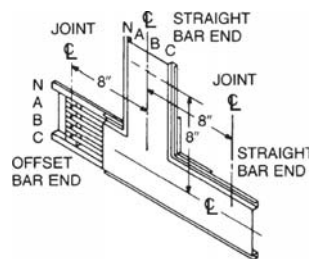
Tee Right



Tap Box-Offset Bar End



Elbow Up



Tee Up



# Busway LW Busway

## Replacement Parts, Application and Pricing

### Product Information

Type LW plug-in busway replacement parts are available for existing systems.

### Available Ratings

Amperes: 30 and 60 amperes  
Voltage: 250 or 300Vac  
Busing: Copper  
Systems: Two- and Three-wire  
Enclosures: Indoor only

### Application

Type LW busway can be used in a variety of indoor applications, by using the variety of hangers and feed-in boxes available. The 300 Volt, three-wire busway can be used on 480 Y/277 Volt applications because the maximum voltage to ground is less than 300 Volts when using two phases and neutral.

### Feed-In Boxes Three-Phase, Two-Wire

Type	Amperage	Product Number	List Price GO-119
Feed-In Boxes End Overslung	30	LW23TEA	\$24.00
Feed-In Boxes End Overslung	60	LW26TEA	\$28.50
Feed-In Boxes End Underslung	30	LW23EB	\$24.00
Feed-In Boxes End Underslung	60	LW26EB	\$28.50
Feed-In Boxes End Miniature	30	LW23EM	\$12.00
Feed-In Boxes Center Overslung	30	LW23TCA <sup>1</sup>	\$34.00
Feed-In Boxes Center Overslung	60	LW26TCA <sup>1</sup>	\$41.50
Feed-In Boxes Center Underslung	30	LW23CB	\$34.00
Feed-In Boxes Center Underslung	60	LW26CB	\$41.50

Couplings and connectors included.

<sup>1</sup>Suitable for use in flush installations in T-bar ceilings.

### Feed-In Boxes Three-Phase, Three-Wire

Type	Amperage	Product Number	List Price GO-119
Feed-In Boxes End Overslung	30	LW33TEA	\$28.50
Feed-In Boxes End Overslung	60	LW36TEA	\$34.00
Feed-In Boxes End Underslung	30	LW33EB	\$28.50
Feed-In Boxes End Underslung	60	LW36EB	\$34.00
Feed-In Boxes End Miniature	30	LW33EM	\$16.25
Feed-In Boxes Center Overslung	30	LW33TCA <sup>1</sup>	\$42.50
Feed-In Boxes Center Overslung	60	LW36TCA <sup>1</sup>	\$46.00
Feed-In Boxes Center Underslung	30	LW33CB	\$42.50
Feed-In Boxes Center Underslung	60	LW36CB	\$46.00

Couplings and connectors included.

Two-phases and neutral from 480 Y/277 Volt system, 300 Volts maximum to ground.

<sup>1</sup>Suitable for use in flush installations in T-bar ceilings.

### Plug-In Tap Boxes

Accessory Type	Service Type	Amperage	Voltage	Product Number	List Price GO-119
Tap Box	2 or 3-pole	30	300 V	LW3B30	\$27.50
Tap Boxes Single Fuse	2-pole	30	120	LW2F30	\$42.50
Tap Boxes Two Fuses	3-pole	30	120/240 V	LW32F30	\$76.50
Tap Boxes Three Fuses	3-pole	30	250 V	LW3F30	\$101.00
Tap Boxes Single Fuse	2-pole	20	300 V	LW2F320 <sup>2</sup>	\$48.00
Tap Boxes Two Fuses	2-pole	20	480 V	LW22F420 <sup>2</sup>	\$64.50
Tap Boxes Two Fuses	3-pole	20	480/277V	LW32F420 <sup>2,4</sup>	\$78.50
Tap Boxes—Handle through Cover: Single-Pole—THQC	2-pole	15	120 V	LW2C15 <sup>3</sup>	\$70.00
Tap Boxes—Handle through Cover: Single-Pole—THQC	2-pole	20	120 V	LW2C20 <sup>3</sup>	\$70.00
Tap Boxes—Handle through Cover: Single-Pole—THQC	2-pole	30	120	LW2C30 <sup>3</sup>	\$70.00
Tap Boxes—Handle through Cover: Two-Pole—THQC	3-pole	15	120/240 V	LW32C15 <sup>3</sup>	\$86.00
Tap Boxes—Handle through Cover: Two-Pole—THQC	3-pole	20	120/240 V	LW32C20 <sup>3</sup>	\$86.00
Tap Boxes—Handle through Cover: Two-Pole—THQC	3-pole	30	120/240 V	LW32C30 <sup>3</sup>	\$86.00
Tap Boxes—Handle through Cover: Three-Pole—THQC	3-pole	15	240 V	LW3C15 <sup>3</sup>	\$137.00
Tap Boxes—Handle through Cover: Three-Pole—THQC	3-pole	20	240 V	LW3C20 <sup>3</sup>	\$137.00
Tap Boxes—Handle through Cover: Three-Pole—THQC	3-pole	30	240 V	LW3C30 <sup>3</sup>	\$137.00
Tap Boxes—External Operating Handle Single-Pole—THQC	2-pole	15	120 V	LW2C15X <sup>3</sup>	\$90.50
Tap Boxes—External Operating Handle Single-Pole—THQC	2-pole	20	120 V	LW2C20X <sup>3</sup>	\$90.50
Tap Boxes—External Operating Handle Single-Pole—THQC	2-pole	30	120	LW2C30X <sup>3</sup>	\$90.50
Tap Boxes—External Operating Handle Two-Pole—THQC	3-pole	15	120/240 V	LW32C15X <sup>3</sup>	\$108.00
Tap Boxes—External Operating Handle Two-Pole—THQC	3-pole	20	120/240 V	LW32C20X <sup>3</sup>	\$108.00
Tap Boxes—External Operating Handle Two-Pole—THQC	3-pole	30	120/240 V	LW32C30X <sup>3</sup>	\$108.00
Tap Boxes—External Operating Handle Three-Pole—THQC	3-pole	15	240 V	LW3C15X <sup>3</sup>	\$158.00
Tap Boxes—External Operating Handle Three-Pole—THQC	3-pole	20	240 V	LW3C20X <sup>3</sup>	\$158.00
Tap Boxes—External Operating Handle Three-Pole—THQC	3-pole	30	240 V	LW3C30X <sup>3</sup>	\$158.00

(Polarity of single-pole devices can be reversed in the field.)

<sup>2</sup>30 amp fusible tap boxes also available (accepts 25 and 30 amp class G fuses).

Contact your local GE Consumer & Industrial Sales Office.

<sup>3</sup>Includes circuit breaker.

<sup>4</sup>Two-phases and neutral from 480 Y/277 Volt system, 300 Volts maximum to ground.





# Busway LW Busway (continued)

## Replacement Parts, Application and Pricing

### Busway Plugs and Receptacles

Plug Type	Service Type	Amperage	Voltage	Bus Bar Contact	Product Number	List Price GO-119
Terminal Plug only	2-pole	20A	300 V	A-N	LWTPA <sup>1</sup>	<b>\$11.00</b>
Terminal Plug only	2-pole	20A	300 V	A-N	LWTPAG <sup>1,2</sup>	<b>\$13.00</b>
Terminal Plug only	2-pole	20A	300 V	B-N	LWTPB <sup>1</sup>	<b>\$11.00</b>
Terminal Plug only	2-pole	20A	300 V	B-N	LWTPBG <sup>1,2</sup>	<b>\$13.00</b>
Terminal Plug only	2-pole	20A, 5A	300 V, 480 V	A-B	LWTPAB <sup>1</sup>	<b>\$14.25</b>
Terminal Plug only	3-pole	20A, 5A	300 V, 480 V	A-B-N	LW3TP <sup>1</sup>	<b>\$28.50</b>
Receptacle only	2-pole	15A	125 V	A-N	LWRPA <sup>1</sup>	<b>\$9.80</b>
Receptacle only	2-pole	15A	125 V	B-N	LWRPB <sup>1</sup>	<b>\$9.80</b>
Terminal and Receptacle	2-pole	15A	125 V (Receptacle Applications)	A-N	LWTRPA <sup>1</sup>	<b>\$14.25</b>
Terminal and Receptacle	2-pole	20A	300 V (Terminal Applications)	B-N	LWTRPB <sup>1</sup>	<b>\$14.25</b>
Fixture-Plug	2-pole	20A	300 V	AN	LWFPA	<b>\$9.80</b>
Fixture-Plug	2-pole	20A	300 V	BN	LWFPB	<b>\$9.80</b>
Fixture-Plug	3-pole	20A	300 V	A-B-N	LW3FP	<b>\$36.00</b>
Fusible Convenience-Plug with Grounding Pin	2-pole	15A	125 Vac (Polarized)	N/A	DFP21G	<b>\$27.50</b>

(Polarity of single-pole devices can be reversed in the field.)

<sup>1</sup>Polarity can be reversed in the field.

<sup>2</sup>Includes ground stab. This plug is designed and polarized for three-wire applications using the "B" conductor of the busway as a continuous ground. Polarity must not be reversed in the field.

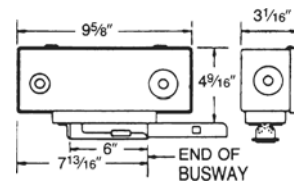


# Busway LW Busway

Replacement Parts, Dimensions, Feed-in Boxes

## Feed-In Boxes Center Overslung

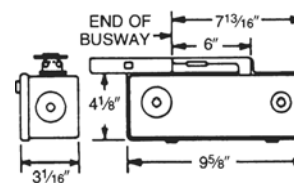
Amperage	Dimension A	Dimension B	Dimension C
30	9.63"	4.56"	3.06"
60	11.69"	4.81"	3.81"



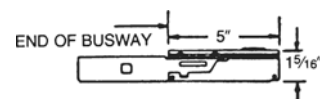
End Feed Overslung

## Feed-In Boxes Center Underslung

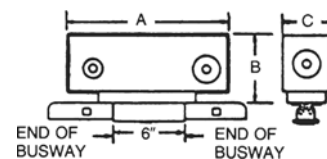
Amperage	Dimension A	Dimension B	Dimension C
30	9.63"	4.06"	3.06"
60	11.69"	4.31"	3.81"



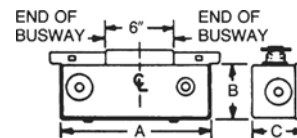
End Feed Underslung



End Feed Miniature (#12 wire max.)



Center Feed Overslung

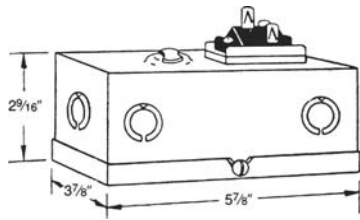


Center Feed Underslung

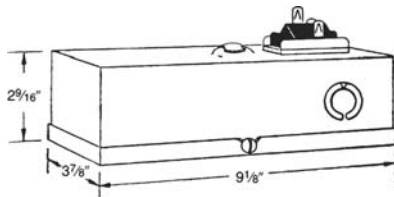


# Busway LW Busway

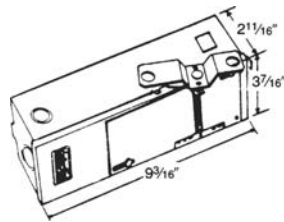
Replacement Parts, Dimensions, Plug-in Tap Boxes and Plugs



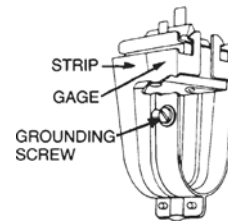
Unfused



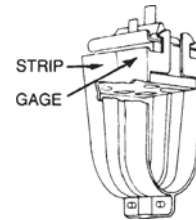
Fusible and Circuit Breaker



Circuit Breaker, Externally Operated Handle



Terminal Plug Cable Clamp Included



Terminal and Receptacle  
Plug Cable Clamp Included

# Busway Lighting Busway

Type LTG, Plug-in, Application and Pricing

## Type LTG Plug-in Busway

Type LTG plug-in busway is a unique four-wire system designed for convenient distribution of power for lighting or similar light-duty loads.

### Available Ratings

Amperes: 50 amperes  
Voltage: 300 Volts or less, AC or DC  
Busing: Copper  
Service Type: Three-phase, four-wire  
Enclosures: Indoor only

### Application

Type LTG busway is designed for use on three-phase, four-wire systems that are rated 300 Volts or less. It is available in five- and ten-foot lengths only.

### Pricing

Type LTG is priced and ordered by product number. Two hangers should be included for each ten feet of busway, and these must be priced separately. Coupling sets are required to connect busway sections, feed-in boxes, or elbows, and these must be priced separately.

### Linear Lengths and Coupling

Type	Figure No. <sup>1</sup>	Std. Pkg.	Product Number	List Price GO-117
10 feet	1	1	DLTGB422	<b>\$125.00</b>
5 feet	1	1	DLTGB4225	<b>\$109.00</b>
Coupling Set (1 Plate with 4 Connectors)		1	DLTGBCP4	<b>\$20.75</b>
Coupling Plate (only)	2	1	DLTGCP	<b>\$7.60</b>
Bus Connector (only)	3	1	DLTGBC	<b>\$4.40</b>

Order one coupling set for each busway length, feed-in box, and elbow.

<sup>1</sup>See page 6-41.

## Feed-in Boxes

Type	Figure No. <sup>1</sup>	Std. Pkg.	Product Number	List Price GO-117
Feed-In Boxes Surface Mounting End	4	1	DFEB422	<b>\$65.50</b>
Feed-In Boxes Surface Mounting Center	4	1	DFCB422	<b>\$82.00</b>
Feed-In Boxes Suspended Mounting Center	5	1	DAOCBB422	<b>\$75.50</b>
Feed-In Boxes Suspended Mounting Sectionalizing	5	1	DAOCS422 <sup>2</sup>	<b>\$75.50</b>
Feed-In Boxes Underslung Mounting Center	6	1	DASCBB422	<b>\$82.00</b>
Feed-In Boxes Underslung Mounting Sectionalizing	6	1	DASCSB422 <sup>2</sup>	<b>\$82.00</b>

<sup>1</sup>See page 6-41.

<sup>2</sup>Not UL listed.

## Fittings

Type	Figure No. <sup>1</sup>	Std. Pkg.	Product Number	List Price GO-117
Elbows Edgewise, Internal	9	1	DAIEB422	<b>\$120.00</b>
Elbows Edgewise, External	10	1	DAEEB422	<b>\$120.00</b>
Elbows Flat, Internal	8	1	DAIFEB422	<b>\$120.00</b>
Elbows Flat, External	7	1	DAOFEB422	<b>\$120.00</b>

## Hardware

Type	Figure No. <sup>1</sup>	Std. Pkg.	Product Number	List Price GO-117
Hanger Plate (Only with Screws for Surface-Mounting LTG)	11	1	DLTGF	<b>\$3.30</b>
Hanger Plate with Messenger Cable Hook	13	1	DLTGMF1	<b>\$4.40</b>
Combination Rod and Messenger Cable Hanger	12	1	DLTGMF3	<b>\$4.40</b>
End Cap with Screws	14	1	DLTGEC	<b>\$7.60</b>
Fixture Hook	15	1	DLTGFB	<b>\$3.30</b>

Order two hangers for each 10 feet of busway.

<sup>1</sup>See page 6-41.

## Unfused Plugs Terminal (only)

Service Type	Amperage	Voltage	Bus Bar Contact	Std. Pkg.	Product Number	List Price GO-117
4-pole	20	240 AC	A-B	1	DATRP421 <sup>3</sup>	<b>\$54.50</b>

<sup>3</sup>Includes cable clamp and ground terminal.



# Busway Lighting Busway (continued)

Type LTG, Plug-in, Application and Pricing

## Unfused Plugs Terminal and Receptacle

Service Type	Figure No. <sup>1</sup>	Amperage	Voltage	Bus Bar Contact	Std. Pkg.	Product Number	List Price GO-117
2-pole	16	20 (Terminal), 15 (Receptacle)	120Vac (Terminal), 120Vac/ 240Vdc (Receptacle)	A-N	20	DATRP2214AG <sup>2</sup>	<b>\$21.75</b>
2-pole	16	20 (Terminal), 15 (Receptacle)	240Vac (Terminal), 120Vac/ 240Vdc (Receptacle)	B-N	20	DATRP2214BG <sup>2</sup>	<b>\$21.75</b>
2-pole	16	15 (Terminal), 15 (Receptacle)	125Vdc (Terminal), 120Vac/ 240Vdc (Receptacle)	C-N	20	DATRP2214CG <sup>2</sup>	<b>\$21.75</b>

<sup>1</sup>See page 6-41.

<sup>2</sup>Includes cable clamp and ground terminal.

## Unfused Plugs Conduit Box

Service Type	Figure No. <sup>1</sup>	Amperage	Voltage	Bus Bar Contact	Std. Pkg.	Product Number	List Price GO-117
2-pole	17	20	120Vac	A-N	1	DAUC2214A	<b>\$50.00</b>
2-pole	17	20	240Vac	B-N	1	DAUC2214B	<b>\$50.00</b>
2-pole	17	15	125Vdc	C-N	1	DAUC2214C	<b>\$50.00</b>
4-pole	17	20	240Vac	A-B-C-N	1	DAUC421A	<b>\$82.00</b>

<sup>1</sup>See page 6-41.

## Fusible Plugs Single Fuse

Service Type	Figure No. <sup>1</sup>	Amperage	Voltage	Bus Bar Contact	Std. Pkg.	Product Number	List Price GO-117
2-pole	18	20	120Vac/ 125Vdc	A-N	1	DFC2214A	<b>\$120.00</b>
2-pole	18	20	120Vac/ 125Vdc	B-N	1	DFC2214B	<b>\$120.00</b>
2-pole	18	20	120Vac/ 125Vdc	C-N	1	DFC2214C	<b>\$120.00</b>

<sup>1</sup>See page 6-41.

Fuses not included.

## Fusible Plugs 3 Fuses

Service Type	Figure No. <sup>1</sup>	Amperage	Voltage	Bus Bar Contact	Std. Pkg.	Product Number	List Price GO-117
4-pole	18	20	240Vac	A-B-C-N	1	DFC421	<b>\$153.00</b>

<sup>1</sup>See page 6-41.

Fuses not included.

## Circuit Breaker Plugs One Single-Pole Breaker

Service Type	Figure No. <sup>1</sup>	Amperage	Voltage	Bus Bar Contact	Std. Pkg.	Product Number	List Price GO-117
2-pole	19	15	120Vac	A-N	1	DATLB21154A	<b>\$82.00</b>
2-pole	19	15	120Vac	B-N	1	DATLB21154B	<b>\$82.00</b>
2-pole	19	15	120Vac	C-N	1	DATLB21154C	<b>\$82.00</b>
2-pole	19	20	120Vac	A-N	1	DATLB21204A	<b>\$82.00</b>
2-pole	19	20	120Vac	B-N	1	DATLB21204B	<b>\$82.00</b>
2-pole	19	20	120Vac	C-N	1	DATLB21204C	<b>\$82.00</b>
2-pole	19	20	120Vac	A-N	1	DATLB2120 <sup>3</sup>	<b>\$98.00</b>

<sup>1</sup>See page 6-41.

<sup>3</sup>On a three wire system the plug can contact either the A-N or the B-N.

(Includes Type THQL circuit breakers.)



# Busway Lighting Busway

Type LTG, Plug-in, Outlines and Dimensions

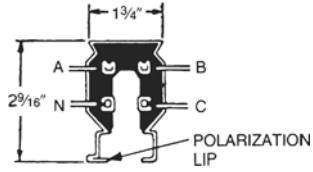


Fig. 1

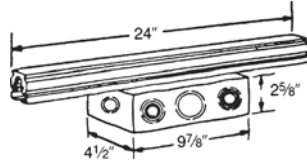


Fig. 6

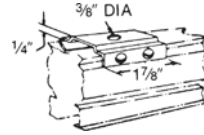


Fig. 11

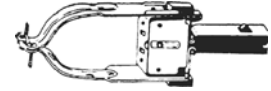


Fig. 16

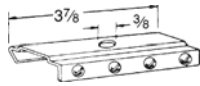


Fig. 2

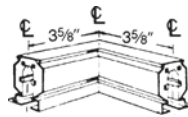


Fig. 7

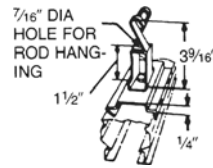


Fig. 12

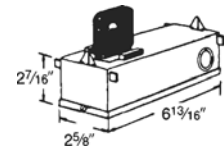


Fig. 17

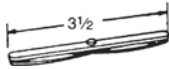


Fig. 3

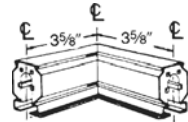


Fig. 8

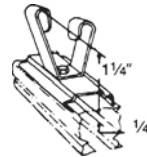


Fig. 13

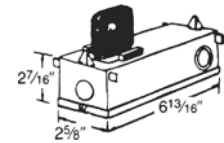


Fig. 18

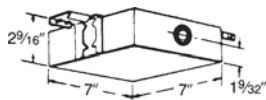


Fig. 4

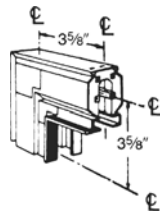


Fig. 9

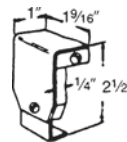


Fig. 14

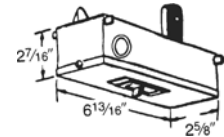


Fig. 19

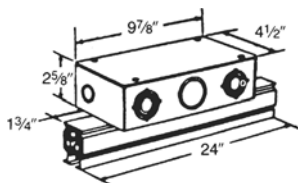


Fig. 5

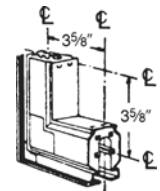


Fig. 10

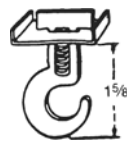


Fig. 15



# Busway

## Armor-Clad Busway

Product Number Pricing

### General

GE will continue to support your Armor-Clad busway needs with a variety of items allowing you to modify, expand and replace your current system. GE offers transition pieces, bus plugs, switchboard stubs, cable tap boxes, and other items.

### Short-Circuit Ratings

For bus plug short-circuit ratings, see Spectra® ratings on page 6-5.

### Pricing

Prior to ordering transition pieces and accessories from the following page, you will need to obtain the following information to ensure compatibility with your existing Armor-Clad busway system:

- Material: Aluminum or Copper bus bars?
- Ground bar: Optional copper ground bar?
- Service: 3- or 4-wire system?
- Amperes: What ampere is required?
- Phase: What is “A” phase location?
- Joint Type: “Bolt-in” or “Slot-in” joint?

### Plug Dimensions

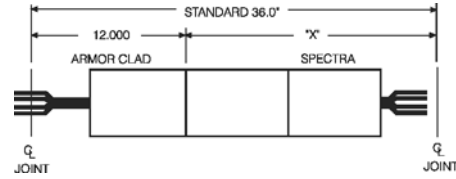
For bus plug dimensions and weights, see Spectra® plugs on page 6-21.

### Armor-Clad Nomenclature

### Transition Section Dimensions

The following shows dimensions for transition sections:

**Armor-Clad to Spectra®/LowAmp Transition**  
(Standard 3-foot length; call for custom lengths.)



**Armor-Clad to Spectra® to Armor-Clad Transition**  
(Standard 5-foot length; call for custom lengths.)

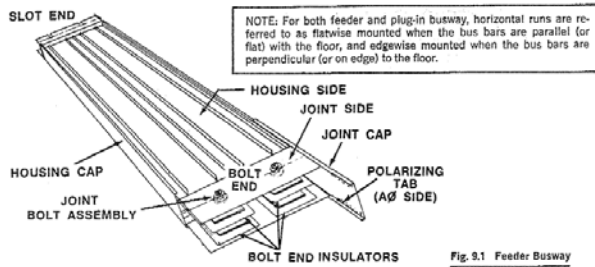
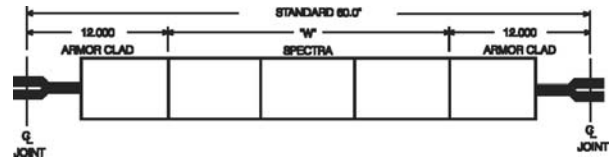


Fig. 9.1 Feeder Busway

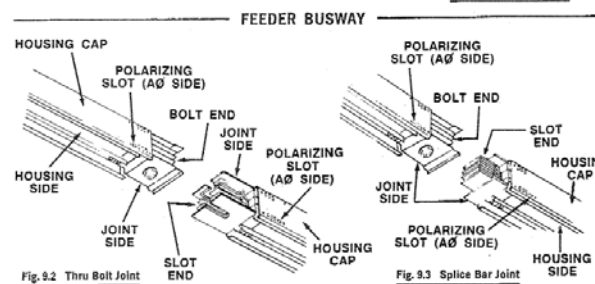


Fig. 9.2 Thru Bolt Joint

Fig. 9.3 Splice Bar Joint

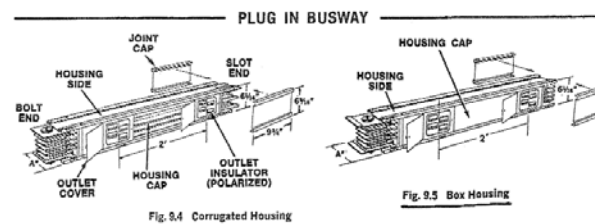


Fig. 9.4 Corrugated Housing

Fig. 9.5 Box Housing



# Busway Armor-Clad Busway

## Transition Sections and Accessories, Product Number Pricing

### Aluminum Bus Bars

		List Prices, GO-126A					
		Ampere Rating					
Component		255	400	600	800	1000	1200
<b>Three-Phase, Three-Wire, AC</b>							
Transition Pieces	3-Ft. Armor-Clad® to Spectra™ to A <sup>1</sup>	—	—	\$1272.00	\$1541.00	\$1755.00	\$2147.00
	5-Ft. Armor-Clad® to Spectra™ to A <sup>1</sup>	—	—	\$2427.00	\$2922.00	\$3327.00	\$4058.00
Accessories	End cable tap box	\$1401.00	\$1548.00	\$1608.00	\$1890.00	\$2081.00	\$2438.00
	Center cable tap box	\$1454.00	\$1643.00	\$1724.00	\$2046.00	\$2261.00	\$2670.00
	Transformer cable tap box 1-3ph	\$845.00	\$879.00	\$929.00	\$1023.00	\$1104.00	\$1191.00
	Switchboard stub	\$1122.00	\$1172.00	\$1274.00	\$1557.00	\$1725.00	\$1919.00
<b>Three-Phase, Four-Wire, AC</b>							
Transition Pieces	3-Ft. Armor-Clad® to Spectra™ to A <sup>1</sup>	—	—	\$1583.00	\$1898.00	\$2291.00	\$2766.00
	5-Ft. Armor-Clad® to Spectra™ to A <sup>1</sup>	—	—	\$3006.00	\$3612.00	\$4346.00	\$5205.00
Accessories	End cable tap box	\$1565.00	\$1739.00	\$1890.00	\$2130.00	\$2489.00	\$3128.00
	Center cable tap box	\$1629.00	\$1856.00	\$2046.00	\$2310.00	\$2721.00	\$3449.00
	Transformer cable tap box 1-3ph	\$921.00	\$971.00	\$1023.00	\$1139.00	\$1241.00	\$1382.00
	Switchboard stub	\$1214.00	\$1365.00	\$1599.00	\$1817.00	\$2063.00	\$2346.00

		List Prices, GO-126A					
		Ampere Rating					
Component		1350	1600	2000	2500	3000	4000
<b>Three-Phase, Three-Wire, AC</b>							
Transition Pieces	3-Ft. Armor-Clad® to Spectra™ to A <sup>1</sup>	\$2334.00	\$2715.00	\$3198.00	\$3887.00	\$4802.00	\$5939.00
	5-Ft. Armor-Clad® to Spectra™ to A <sup>1</sup>	\$4401.00	\$5103.00	\$6003.00	\$7296.00	\$8949.00	\$11115.00
Accessories	End cable tap box	\$2675.00	\$3128.00	\$3657.00	\$4295.00	\$5427.00	\$6305.00
	Center cable tap box	\$2937.00	\$3747.00	\$4403.00	\$5199.00	\$6666.00	\$7749.00
	Transformer cable tap box 1-3ph	\$1272.00	\$1382.00	\$1599.00	\$1917.00	\$2337.00	\$2690.00
	Switchboard stub	\$2091.00	\$2346.00	\$2697.00	\$3116.00	\$3728.00	\$4506.00
<b>Three-Phase, Four-Wire, AC</b>							
Transition Pieces	3-Ft. Armor-Clad® to Spectra™ to A <sup>1</sup>	\$3068.00	\$3560.00	\$4223.00	\$5237.00	\$6209.00	\$8106.00
	5-Ft. Armor-Clad® to Spectra™ to A <sup>1</sup>	\$5766.00	\$6684.00	\$7917.00	\$9819.00	\$11630.00	\$15158.00
Accessories	End cable tap box	\$3416.00	\$3954.00	\$4635.00	\$5577.00	\$6495.00	\$8499.00
	Center cable tap box	\$3779.00	\$4779.00	\$5636.00	\$6816.00	\$7989.00	\$10499.00
	Transformer cable tap box 1-3ph	\$1526.00	\$1641.00	\$1968.00	\$2288.00	\$2657.00	\$3216.00
	Switchboard stub	\$2624.00	\$2940.00	\$3402.00	\$4073.00	\$4775.00	\$6047.00

<sup>1</sup> Call factory for custom lengths of transition pieces.





# Busway

## Armor-Clad Busway (continued)

### Transition Sections and Accessories, Product Number Pricing

#### Copper Bus Bars

Component		List Prices, GO-126C						
		Ampere Rating						
		255	400	600	800	1000	1200	1350
<b>Three-Phase, Three-Wire, AC</b>								
Transition Pieces	3-Ft. Armor-Clad® to Spectra™ to A <sup>1</sup>	—	—	\$1470.00	\$1770.00	\$2061.00	\$2547.00	\$2766.00
	5-Ft. Armor-Clad® to Spectra™ to A <sup>1</sup>	—	—	\$2757.00	\$3305.00	\$3837.00	\$4725.00	\$5121.00
Accessories	End cable tap box	\$1647.00	\$1749.00	\$1997.00	\$2339.00	\$2679.00	\$3222.00	\$3521.00
	Center cable tap box	\$1715.00	\$1845.00	\$2177.00	\$2571.00	\$2960.00	\$3585.00	\$3924.00
	Transformer cable tap box 1-3ph	\$1269.00	\$1311.00	\$1371.00	\$1571.00	\$1776.00	\$2063.00	\$2238.00
	Switchboard stub	\$1554.00	\$1554.00	\$1706.00	\$2105.00	\$2489.00	\$2934.00	\$3194.00
<b>Three-Phase, Four-Wire, AC</b>								
Transition Pieces	3-Ft. Armor-Clad® to Spectra™ to A <sup>1</sup>	\$1913.00	\$2105.00	\$2249.00	\$2738.00	\$3183.00	\$3720.00	\$4056.00
	5-Ft. Armor-Clad® to Spectra™ to A <sup>1</sup>	\$3573.00	\$3957.00	\$4245.00	\$5141.00	\$5948.00	\$6938.00	\$7542.00
Accessories	End cable tap box	\$1956.00	\$2181.00	\$2436.00	\$3020.00	\$3546.00	\$4158.00	\$4598.00
	Center cable tap box	\$2052.00	\$2325.00	\$2684.00	\$3350.00	\$3977.00	\$4653.00	\$5157.00
	Transformer cable tap box 1-3ph	\$1526.00	\$1578.00	\$1620.00	\$1959.00	\$2261.00	\$2562.00	\$2867.00
	Switchboard stub	\$1811.00	\$1962.00	\$2196.00	\$2738.00	\$3275.00	\$3854.00	\$4307.00
<b>Other Items</b>								
Accessories	Wall or floor flange	\$192.00	\$192.00	\$192.00	\$192.00	\$192.00	\$192.00	\$192.00
	Spring Hanger	\$101.00	\$101.00	\$101.00	\$101.00	\$101.00	\$101.00	\$101.00
	Standard trapeze hanger	\$23.00	\$23.00	\$23.00	\$23.00	\$23.00	\$23.00	\$23.00
	Clevis hanger	\$23.00	\$23.00	\$23.00	\$23.00	\$23.00	\$23.00	\$23.00
	Removable joint assembly	—	—	\$407.00	\$428.00	\$465.00	\$486.00	\$515.00
	Joint Isolator	—	—	\$258.00	\$258.00	\$258.00	\$258.00	\$258.00
	Joint tap	—	—	\$452.00	\$476.00	\$516.00	\$540.00	\$572.00

Component		List Prices, GO-126C					
		Ampere Rating					
		1600	2000	2500	3000	4000	5000
<b>Three-Phase, Three-Wire, AC</b>							
Transition Pieces	3-Ft. Armor-Clad® to Spectra™ to A <sup>1</sup>	\$3192.00	\$3855.00	\$4742.00	\$5603.00	\$7271.00	\$9023.00
	5-Ft. Armor-Clad® to Spectra™ to A <sup>1</sup>	\$5898.00	\$7098.00	\$8721.00	\$10284.00	\$13335.00	\$16529.00
Accessories	End cable tap box	\$4062.00	\$4944.00	\$5970.00	\$6995.00	\$8913.00	\$11072.00
	Center cable tap box	\$4539.00	\$6105.00	\$7415.00	\$8756.00	\$11199.00	\$13946.00
	Transformer cable tap box 1-3ph	\$2513.00	\$3042.00	\$3726.00	\$4455.00	\$5546.00	\$6762.00
	Switchboard stub	\$3762.00	\$4533.00	\$5561.00	\$6507.00	\$8460.00	\$10497.00
<b>Three-Phase, Four-Wire, AC</b>							
Transition Pieces	3-Ft. Armor-Clad® to Spectra™ to A <sup>1</sup>	\$4886.00	\$5687.00	\$6870.00	\$8136.00	\$10404.00	\$12431.00
	5-Ft. Armor-Clad® to Spectra™ to A <sup>1</sup>	\$9101.00	\$10520.00	\$12668.00	\$15000.00	\$19116.00	\$22751.00
Accessories	End cable tap box	\$5337.00	\$6548.00	\$8036.00	\$9342.00	\$12245.00	\$15038.00
	Center cable tap box	\$5997.00	\$8166.00	\$10068.00	\$11754.00	\$15453.00	\$19040.00
	Transformer cable tap box 1-3ph	\$3218.00	\$4001.00	\$4851.00	\$5693.00	\$7238.00	\$8879.00
	Switchboard stub	\$4944.00	\$6113.00	\$7548.00	\$8876.00	\$11645.00	\$14408.00
<b>Other Items</b>							
Accessories	Wall or floor flange	\$236.00	\$236.00	\$236.00	\$236.00	\$327.00	\$327.00
	Spring Hanger	\$143.00	\$143.00	\$143.00	\$194.00	\$194.00	\$194.00
	Standard trapeze hanger	\$23.00	\$23.00	\$23.00	\$23.00	\$23.00	\$23.00
	Clevis hanger	\$23.00	\$23.00	\$23.00	\$23.00	\$23.00	\$23.00
	Removable joint assembly	\$927.00	\$993.00	\$1031.00	—	—	—
	Joint Isolator	\$258.00	\$516.00	\$516.00	—	—	—
	Joint tap	\$1031.00	\$1104.00	\$1145.00	—	—	—

<sup>1</sup>Call factory for custom lengths of transition pieces.



# Busway

## Armor-Clad Busway

### Busway Plugs, Product Number Pricing

#### Specification Check

- Exclusive Plug Assist—for mechanical installation on an energized busway run.
- Ground Contact—before stab contact.
- Interlock—to insure that plug is off when engaging bus and when removing plug.
- Door Interlock—plug must be off to open door.

#### Standard Frames Three-Phase, Three-Wire TEB

Voltage	Trip Amps	Product Number	List Price GO-114A
240 Volts Fixed Trip	15	AC31EBG	<b>\$642.00</b>
240 Volts Fixed Trip	20	AC32EBG	<b>\$642.00</b>
240 Volts Fixed Trip	30	AC33EBG	<b>\$642.00</b>
240 Volts Fixed Trip	40	AC34EBG	<b>\$642.00</b>
240 Volts Fixed Trip	50	AC35EBG	<b>\$642.00</b>
240 Volts Fixed Trip	70	AC37EBG	<b>\$774.00</b>
240 Volts Fixed Trip	100	AC310EBG	<b>\$774.00</b>

#### Standard Frames Three-Phase, Three-Wire TED4

Voltage	Trip Amps	Product Number	List Price GO-114A
480 Volts Fixed Trip	15	AC31ED4G	<b>\$800.00</b>
480 Volts Fixed Trip	20	AC32ED4G	<b>\$800.00</b>
480 Volts Fixed Trip	30	AC33ED4G	<b>\$800.00</b>
480 Volts Fixed Trip	40	AC34ED4G	<b>\$800.00</b>
480 Volts Fixed Trip	50	AC35ED4G	<b>\$800.00</b>
480 Volts Fixed Trip	60	AC36ED4G	<b>\$800.00</b>
480 Volts Fixed Trip	70	AC37ED4G	<b>\$890.00</b>
480 Volts Fixed Trip	100	AC310ED4G	<b>\$890.00</b>

#### Standard Frames Three-Phase, Three-Wire TED6

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Fixed Trip	15	AC31ED6G	<b>\$882.00</b>
600 Volts Fixed Trip	20	AC32ED6G	<b>\$882.00</b>
600 Volts Fixed Trip	30	AC33ED6G	<b>\$882.00</b>
600 Volts Fixed Trip	40	AC34ED6G	<b>\$882.00</b>
600 Volts Fixed Trip	50	AC35ED6G	<b>\$882.00</b>
600 Volts Fixed Trip	70	AC37ED6G	<b>\$972.00</b>
600 Volts Fixed Trip	100	AC310ED6G	<b>\$972.00</b>

#### Standard Frames Three-Phase, Three-Wire TFJ

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Fixed Trip	70	AC37FJG	<b>\$2108.00</b>
600 Volts Fixed Trip	100	AC310FJG	<b>\$2108.00</b>
600 Volts Fixed Trip	110	AC311FJG	<b>\$2108.00</b>
600 Volts Fixed Trip	125	AC312FJG	<b>\$2108.00</b>
600 Volts Fixed Trip	150	AC315FJG	<b>\$2108.00</b>
600 Volts Fixed Trip	200	AC320FJG	<b>\$2108.00</b>
600 Volts Fixed Trip	225	AC322FJG	<b>\$2108.00</b>

#### Standard Frames Three-Phase, Three-Wire TFK

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	70	AC37FKG	<b>\$2354.00</b>
600 Volts Inter. Trip	100	AC310FKG	<b>\$2354.00</b>
600 Volts Inter. Trip	125	AC312FKG	<b>\$2354.00</b>
600 Volts Inter. Trip	150	AC315FKG	<b>\$2354.00</b>
600 Volts Inter. Trip	200	AC320FKG	<b>\$2354.00</b>
600 Volts Inter. Trip	225	AC322FKG	<b>\$2354.00</b>

#### Standard Frames Three-Phase, Three-Wire TJJ

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Fixed Trip	125	AC312JJG	<b>\$4386.00</b>
600 Volts Fixed Trip	150	AC315JJG	<b>\$4386.00</b>
600 Volts Fixed Trip	200	AC320JJG	<b>\$4386.00</b>
600 Volts Fixed Trip	225	AC322JJG	<b>\$4386.00</b>
600 Volts Fixed Trip	300	AC330JJG	<b>\$4386.00</b>
600 Volts Fixed Trip	400	AC340JJG	<b>\$4386.00</b>

#### Standard Frames Three-Phase, Three-Wire TJK4

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	125	AC312JK4G	<b>\$4403.00</b>
600 Volts Inter. Trip	150	AC315JK4G	<b>\$4403.00</b>
600 Volts Inter. Trip	175	AC317JK4G	<b>\$4403.00</b>
600 Volts Inter. Trip	200	AC320JK4G	<b>\$4403.00</b>
600 Volts Inter. Trip	225	AC322JK4G	<b>\$4403.00</b>
600 Volts Inter. Trip	300	AC330JK4G	<b>\$4403.00</b>
600 Volts Inter. Trip	400	AC340JK4G	<b>\$4403.00</b>

#### Standard Frames Three-Phase, Three-Wire TJK6

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	400	AC340JK6G	<b>\$5753.00</b>
600 Volts Inter. Trip	450	AC345JK6G	<b>\$5867.00</b>
600 Volts Inter. Trip	500	AC350JK6G	<b>\$5867.00</b>
600 Volts Inter. Trip	600	AC360JK6G	<b>\$5867.00</b>

#### Standard Frames Three-Phase, Three-Wire TKM8

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	300	AC330KMG	<b>\$6690.00</b>
600 Volts Inter. Trip	400	AC340KMG	<b>\$6690.00</b>
600 Volts Inter. Trip	500	AC350KMG	<b>\$6690.00</b>
600 Volts Inter. Trip	600	AC360KMG	<b>\$6690.00</b>
600 Volts Inter. Trip	700	AC370KMG	<b>\$7479.00</b>
600 Volts Inter. Trip	800	AC380KMG	<b>\$7479.00</b>



# Busway Armor-Clad Busway

Busway Plugs, Product Number Pricing

## Standard Frames Three-Phase, Four-Wire TEB

Voltage	Trip Amps	Product Number	List Price GO-114A
240 Volts Fixed Trip	15	AC41EBG	\$717.00
240 Volts Fixed Trip	20	AC42EBG	\$717.00
240 Volts Fixed Trip	30	AC43EBG	\$717.00
240 Volts Fixed Trip	40	AC44EBG	\$717.00
240 Volts Fixed Trip	50	AC45EBG	\$717.00
240 Volts Fixed Trip	70	AC47EBG	\$840.00
240 Volts Fixed Trip	100	AC410EBG	\$840.00

## Standard Frames Three-Phase, Four-Wire TED4

Voltage	Trip Amps	Product Number	List Price GO-114A
480 Volts Fixed Trip	15	AC41ED4G	\$882.00
480 Volts Fixed Trip	20	AC42ED4G	\$882.00
480 Volts Fixed Trip	30	AC43ED4G	\$882.00
480 Volts Fixed Trip	40	AC44ED4G	\$882.00
480 Volts Fixed Trip	50	AC45ED4G	\$882.00
480 Volts Fixed Trip	60	AC46ED4G	\$882.00
480 Volts Fixed Trip	70	AC47ED4G	\$956.00
480 Volts Fixed Trip	100	AC410ED4G	\$956.00

## Standard Frames Three-Phase, Four-Wire TED6

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Fixed Trip	15	AC41ED6G	\$947.00
600 Volts Fixed Trip	20	AC42ED6G	\$947.00
600 Volts Fixed Trip	30	AC43ED6G	\$947.00
600 Volts Fixed Trip	40	AC44ED6G	\$947.00
600 Volts Fixed Trip	50	AC45ED6G	\$947.00
600 Volts Fixed Trip	70	AC47ED6G	\$1046.00
600 Volts Fixed Trip	100	AC410ED6G	\$1046.00

## Standard Frames Three-Phase, Four-Wire TFJ

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Fixed Trip	70	AC47FJG	\$2247.00
600 Volts Fixed Trip	100	AC410FJG	\$2247.00
600 Volts Fixed Trip	110	AC411FJG	\$2247.00
600 Volts Fixed Trip	125	AC412FJG	\$2247.00
600 Volts Fixed Trip	150	AC415FJG	\$2247.00
600 Volts Fixed Trip	200	AC420FJG	\$2247.00
600 Volts Fixed Trip	225	AC422FJG	\$2247.00

## Standard Frames Three-Phase, Four-Wire TFK

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	70	AC47FKG	\$2478.00
600 Volts Inter. Trip	100	AC410FKG	\$2478.00
600 Volts Inter. Trip	125	AC412FKG	\$2478.00
600 Volts Inter. Trip	150	AC415FKG	\$2478.00
600 Volts Inter. Trip	200	AC420FKG	\$2478.00
600 Volts Inter. Trip	225	AC422FKG	\$2478.00

## Standard Frames Three-Phase, Four-Wire TJJ

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Fixed Trip	125	AC412JJG	\$4601.00
600 Volts Fixed Trip	150	AC415JJG	\$4601.00
600 Volts Fixed Trip	200	AC420JJG	\$4601.00
600 Volts Fixed Trip	225	AC422JJG	\$4601.00
600 Volts Fixed Trip	300	AC430JJG	\$4601.00
600 Volts Fixed Trip	400	AC440JJG	\$4601.00

## Standard Frames Three-Phase, Four-Wire TJK4

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	125	AC412JK4G	\$4617.00
600 Volts Inter. Trip	150	AC415JK4G	\$4617.00
600 Volts Inter. Trip	175	AC417JK4G	\$4617.00
600 Volts Inter. Trip	200	AC420JK4G	\$4617.00
600 Volts Inter. Trip	225	AC422JK4G	\$4617.00
600 Volts Inter. Trip	300	AC430JK4G	\$4617.00
600 Volts Inter. Trip	400	AC440JK4G	\$4617.00

## Standard Frames Three-Phase, Four-Wire TJK6

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	400	AC440JK6G	\$6015.00
600 Volts Inter. Trip	450	AC445JK6G	\$6015.00
600 Volts Inter. Trip	500	AC450JK6G	\$6164.00
600 Volts Inter. Trip	600	AC460JK6G	\$6164.00

## Standard Frames Three-Phase, Four-Wire TKM8

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	300	AC430KMG	\$6986.00
600 Volts Inter. Trip	400	AC440KMG	\$6986.00
600 Volts Inter. Trip	500	AC450KMG	\$6986.00
600 Volts Inter. Trip	600	AC460KMG	\$6986.00
600 Volts Inter. Trip	700	AC470KMG	\$7793.00
600 Volts Inter. Trip	800	AC480KMG	\$7793.00



# Busway

## Armor-Clad Busway

### Busway Plugs, Product Number Pricing

#### Hi-Break Frames Three-Phase, Three-Wire THED

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Fixed Trip	15	AC31HEDG	<b>\$1112.00</b>
600 Volts Fixed Trip	20	AC32HEDG	<b>\$1112.00</b>
600 Volts Fixed Trip	30	AC33HEDG	<b>\$1112.00</b>
600 Volts Fixed Trip	40	AC34HEDG	<b>\$1112.00</b>
600 Volts Fixed Trip	50	AC35HEDG	<b>\$1112.00</b>
600 Volts Fixed Trip	70	AC37HEDG	<b>\$1211.00</b>
600 Volts Fixed Trip	100	AC310HEDG	<b>\$1211.00</b>

#### Hi-Break Frames Three-Phase, Four-Wire THED

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Fixed Trip	15	AC41HEDG	<b>\$1178.00</b>
600 Volts Fixed Trip	20	AC42HEDG	<b>\$1178.00</b>
600 Volts Fixed Trip	30	AC43HEDG	<b>\$1178.00</b>
600 Volts Fixed Trip	40	AC44HEDG	<b>\$1178.00</b>
600 Volts Fixed Trip	50	AC45HEDG	<b>\$1178.00</b>
600 Volts Fixed Trip	70	AC47HEDG	<b>\$1284.00</b>
600 Volts Fixed Trip	100	AC410HEDG	<b>\$1284.00</b>

#### Hi-Break Frames Three-Phase, Three-Wire THFK

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	70	AC37HFKG	<b>\$3836.00</b>
600 Volts Inter. Trip	100	AC310HFKG	<b>\$3836.00</b>
600 Volts Inter. Trip	125	AC312HFKG	<b>\$3836.00</b>
600 Volts Inter. Trip	150	AC315HFKG	<b>\$3836.00</b>
600 Volts Inter. Trip	200	AC320HFKG	<b>\$3836.00</b>
600 Volts Inter. Trip	225	AC322HFKG	<b>\$3836.00</b>

#### Hi-Break Frames Three-Phase, Four-Wire THFK

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	70	AC47HFKG	<b>\$3966.00</b>
600 Volts Inter. Trip	100	AC410HFKG	<b>\$3966.00</b>
600 Volts Inter. Trip	125	AC412HFKG	<b>\$3966.00</b>
600 Volts Inter. Trip	150	AC415HFKG	<b>\$3966.00</b>
600 Volts Inter. Trip	200	AC420HFKG	<b>\$3966.00</b>
600 Volts Inter. Trip	225	AC422HFKG	<b>\$3966.00</b>

#### Hi-Break Frames Three-Phase, Three-Wire THJK4

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	125	AC312HJK4G	<b>\$6065.00</b>
600 Volts Inter. Trip	150	AC315HJK4G	<b>\$6065.00</b>
600 Volts Inter. Trip	200	AC320HJK4G	<b>\$6065.00</b>
600 Volts Inter. Trip	225	AC322HJK4G	<b>\$6065.00</b>
600 Volts Inter. Trip	300	AC330HJK4G	<b>\$6065.00</b>
600 Volts Inter. Trip	400	AC340HJK4G	<b>\$6065.00</b>

#### Hi-Break Frames Three-Phase, Four-Wire THJK4

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	125	AC412HJK4G	<b>\$6263.00</b>
600 Volts Inter. Trip	150	AC415HJK4G	<b>\$6263.00</b>
600 Volts Inter. Trip	200	AC420HJK4G	<b>\$6263.00</b>
600 Volts Inter. Trip	225	AC422HJK4G	<b>\$6263.00</b>
600 Volts Inter. Trip	300	AC430HJK4G	<b>\$6263.00</b>
600 Volts Inter. Trip	400	AC440HJK4G	<b>\$6263.00</b>

#### Hi-Break Frames Three-Phase, Three-Wire THJK6

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	400	AC340HJK6G	<b>\$6140.00</b>
600 Volts Inter. Trip	450	AC345HJK6G	<b>\$6140.00</b>
600 Volts Inter. Trip	500	AC350HJK6G	<b>\$6140.00</b>
600 Volts Inter. Trip	600	AC360HJK6G	<b>\$6140.00</b>

#### Hi-Break Frames Three-Phase, Four-Wire THJK6

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	400	AC440HJK6G	<b>\$6342.00</b>
600 Volts Inter. Trip	450	AC445HJK6G	<b>\$6342.00</b>
600 Volts Inter. Trip	500	AC450HJK6G	<b>\$6342.00</b>
600 Volts Inter. Trip	600	AC460HJK6G	<b>\$6342.00</b>

#### Hi-Break Frames Three-Phase, Three-Wire THKM8

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	300	AC330HKMG	<b>\$7200.00</b>
600 Volts Inter. Trip	400	AC340HKMG	<b>\$7200.00</b>
600 Volts Inter. Trip	500	AC350HKMG	<b>\$7200.00</b>
600 Volts Inter. Trip	600	AC360HKMG	<b>\$7200.00</b>
600 Volts Inter. Trip	700	AC370HKMG	<b>\$8451.00</b>
600 Volts Inter. Trip	800	AC380HKMG	<b>\$8451.00</b>

#### Hi-Break Frames Three-Phase, Four-Wire THKM8

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	300	AC430HKMG	<b>\$7512.00</b>
600 Volts Inter. Trip	400	AC440HKMG	<b>\$7512.00</b>
600 Volts Inter. Trip	500	AC450HKMG	<b>\$7512.00</b>
600 Volts Inter. Trip	600	AC460HKMG	<b>\$7512.00</b>
600 Volts Inter. Trip	700	AC470HKMG	<b>\$8796.00</b>
600 Volts Inter. Trip	800	AC480HKMG	<b>\$8796.00</b>



# Busway Armor-Clad Busway

Busway Plugs, Product Number Pricing

## High Interrupting Spectra® RMS Circuit Breaker Three-Phase, Three-Wire SELA

Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600V (kAIC)	Trip Amps	Product Number	List Price GO-114A
100	65	25	15	AC31SELG	\$1679.00
100	65	25	20	AC32SELG	\$1679.00
100	65	25	30	AC33SELG	\$1679.00
100	65	25	40	AC34SELG	\$1679.00
100	65	25	50	AC35SELG	\$1679.00
100	65	25	60	AC36SELG	\$1679.00
100	65	25	70	AC37SELG	\$1979.00
100	65	25	80	AC38SELG	\$1979.00
100	65	25	90	AC39SELG	\$1979.00
100	65	25	100	AC310SELG	\$1979.00
100	65	25	110	AC311SELG	\$4184.00
100	65	25	125	AC312SELG	\$4184.00
100	65	25	150	AC315SELG	\$4184.00

IC rating in rms symmetrical kA.

## High Interrupting Spectra® RMS Circuit Breaker Three-Phase, Four-Wire SELA

Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600V (kAIC)	Trip Amps	Product Number	List Price GO-114A
100	65	25	15	AC41SELG	\$1829.00
100	65	25	20	AC42SELG	\$1829.00
100	65	25	30	AC43SELG	\$1829.00
100	65	25	40	AC44SELG	\$1829.00
100	65	25	50	AC45SELG	\$1829.00
100	65	25	60	AC46SELG	\$1829.00
100	65	25	70	AC47SELG	\$2129.00
100	65	25	80	AC48SELG	\$2129.00
100	65	25	90	AC49SELG	\$2129.00
100	65	25	100	AC410SELG	\$2129.00
100	65	25	110	AC411SELG	\$4334.00
100	65	25	125	AC412SELG	\$4334.00
100	65	25	150	AC415SELG	\$4334.00

IC rating in rms symmetrical kA.

## High Interrupting Spectra® RMS Circuit Breaker Three-Phase, Three-Wire SFLA

Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600V (kAIC)	Trip Amps	Product Number	List Price GO-114A
100	65	25	70	AC37SFLG	\$4482.00
100	65	25	90	AC39SFLG	\$4482.00
100	65	25	100	AC310SFLG	\$4482.00
100	65	25	110	AC311SFLG	\$4482.00
100	65	25	125	AC312SFLG	\$4482.00
100	65	25	150	AC315SFLG	\$4482.00
100	65	25	175	AC317SFLG	\$4482.00
100	65	25	200	AC320SFLG	\$4482.00
100	65	25	225	AC322SFLG	\$4482.00
100	65	25	250	AC325SFLG	\$4482.00

IC rating in rms symmetrical kA.

## High Interrupting Spectra® RMS Circuit Breaker Three-Phase, Four-Wire SFLA

Short Circuit Rating @ 240V (kAIC)	Short Circuit Rating @ 480V (kAIC)	Short Circuit Rating @ 600V (kAIC)	Trip Amps	Product Number	List Price GO-114A
100	65	25	70	AC47SFLG	\$4647.00
100	65	25	90	AC49SFLG	\$4647.00
100	65	25	100	AC410SFLG	\$4647.00
100	65	25	110	AC411SFLG	\$4647.00
100	65	25	125	AC412SFLG	\$4647.00
100	65	25	150	AC415SFLG	\$4647.00
100	65	25	175	AC417SFLG	\$4647.00
100	65	25	200	AC420SFLG	\$4647.00
100	65	25	225	AC422SFLG	\$4647.00
100	65	25	250	AC425SFLG	\$4647.00

IC rating in rms symmetrical kA.

NOTE: Armor-Clad Busway Plugs have the same dimensions as Spectra®-Series Plugs. Refer to page 6-21.



# Busway Armor-Clad Busway

Busway Plugs, Product Number Pricing

## Tri-Break® Three-Phase, Three-Wire TB1

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Fixed Trip	15	AC31B1E05G	\$2667.00
600 Volts Fixed Trip	20	AC32B1E05G	\$2667.00
600 Volts Fixed Trip	30	AC33B1E05G	\$2667.00
600 Volts Fixed Trip	40	AC34B1E05G	\$2667.00
600 Volts Fixed Trip	50	AC35B1E09G	\$2667.00
600 Volts Fixed Trip	70	AC37B1E09G	\$2667.00
600 Volts Fixed Trip	100	AC310B1E09G	\$2667.00

## Tri-Break® Three-Phase, Three-Wire TB4

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	125	AC312B4F14G	\$6065.00
600 Volts Inter. Trip	150	AC315B4F14G	\$6065.00
600 Volts Inter. Trip	200	AC320B4F14G	\$6065.00
600 Volts Inter. Trip	225	AC322B4F14G	\$6065.00
600 Volts Inter. Trip	300	AC330B4F14G	\$7250.00
600 Volts Inter. Trip	400	AC340B4F14G	\$7250.00

## Tri-Break® Three-Phase, Three-Wire TB6

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	300	AC330B6J14G	\$10886.00
600 Volts Inter. Trip	400	AC340B6J14G	\$10886.00
600 Volts Inter. Trip	500	AC350B6J14G	\$10886.00
600 Volts Inter. Trip	600	AC360B6J14G	\$10886.00

## Tri-Break® Three-Phase, Three-Wire TB8

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	600	AC360B8K22G	\$12335.00
600 Volts Inter. Trip	700	AC370B8K22G	\$12335.00
600 Volts Inter. Trip	800	AC380B8K22G	\$12335.00

## Tri-Break® Three-Phase, Four-Wire TB1

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Fixed Trip	15	AC41B1E05G	\$2750.00
600 Volts Fixed Trip	20	AC42B1E05G	\$2750.00
600 Volts Fixed Trip	30	AC43B1E05G	\$2750.00
600 Volts Fixed Trip	40	AC44B1E05G	\$2750.00
600 Volts Fixed Trip	50	AC45B1E09G	\$2750.00
600 Volts Fixed Trip	70	AC47B1E09G	\$2750.00
600 Volts Fixed Trip	100	AC410B1E09G	\$2750.00

## Tri-Break® Three-Phase, Four-Wire TB4

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	125	AC412B4F14G	\$6213.00
600 Volts Inter. Trip	150	AC415B4F14G	\$6213.00
600 Volts Inter. Trip	200	AC420B4F14G	\$6213.00
600 Volts Inter. Trip	225	AC422B4F14G	\$6213.00
600 Volts Inter. Trip	300	AC430B4F14G	\$7694.00
600 Volts Inter. Trip	400	AC440B4F14G	\$7694.00

## Tri-Break® Three-Phase, Four-Wire TB6

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	300	AC430B6J14G	\$11216.00
600 Volts Inter. Trip	400	AC440B6J14G	\$11216.00
600 Volts Inter. Trip	500	AC450B6J14G	\$11216.00
600 Volts Inter. Trip	600	AC460B6J14G	\$11216.00

## Tri-Break® Three-Phase, Four-Wire TB8

Voltage	Trip Amps	Product Number	List Price GO-114A
600 Volts Inter. Trip	600	AC460B8K22G	\$12663.00
600 Volts Inter. Trip	700	AC470B8K22G	\$12663.00
600 Volts Inter. Trip	800	AC480B8K22G	\$12663.00

## Switch-Operated Fusible Plugs Three-Phase, Three-Wire

Voltage	Trip Amps	Product Number	List Price GO-114B
240	30	AC321RG	\$420.00
240	60	AC322RG	\$462.00
240	100	AC323RG	\$642.00
240	200	AC324RG	\$1088.00
240	400	AC325RG	\$2831.00
240	600	AC326RG	\$3869.00
480 or 600	30	AC361RG	\$462.00
480 or 600	60	AC362RG	\$479.00
480 or 600	100	AC363RG	\$668.00
480 or 600	200	AC364RG	\$1137.00
480 or 600	400	AC365RG	\$2831.00
480 or 600	600	AC366RG	\$3869.00

With QMR Interrupter Fuses Not Included

## Switch-Operated Fusible Plugs Three-Phase, Four-Wire

Voltage	Trip Amps	Product Number	List Price GO-114B
240	30	AC421RG	\$495.00
240	60	AC422RG	\$528.00
240	100	AC423RG	\$717.00
240	200	AC424RG	\$1218.00
240	400	AC425RG	\$3021.00
240	600	AC426RG	\$4214.00
480 or 600	30	AC461RG	\$528.00
480 or 600	60	AC462RG	\$545.00
480 or 600	100	AC463RG	\$767.00
480 or 600	200	AC464RG	\$1260.00
480 or 600	400	AC465RG	\$3021.00
480 or 600	600	AC466RG	\$4221.00

With QMR Interrupter Fuses Not Included

## Shunt Trip Option

List Price GO-114M
List Price Adder
\$1152.00



# Busway Armor-Clad Busway

Plugs and Protective Devices, Options and Additions

## Enclosure Only

### Three-Phase, Three-Wire Ground Standard

Voltage	Trip Amps	Product Number	List Price GO-114A
E	100 max.	AC3100EG <sup>1</sup>	\$315.00
F	225	AC3225FG <sup>1</sup>	\$690.00

<sup>1</sup>Not for Spectra® breakers. E and F frame enclosures for standard molded case circuit breakers only.

(Order circuit breaker from Buylog Section 3.)

### Enclosure Only Three-Phase, Four-Wire Ground Standard

Voltage	Trip Amps	Product Number	List Price GO-114A
E	100 max.	AC4100EG <sup>1</sup>	\$338.00
F	225	AC4225FG <sup>1</sup>	\$795.00

<sup>1</sup>Not for Spectra® breakers. E and F frame enclosures for standard molded case circuit breakers only.

(Order circuit breaker from Buylog Section 3.)

### Ground Dector Plugs Three-Phase, Three-Wire

Voltage	Product Number	List Price GO-114B
208-240	AC321N	\$533.00
440-600	AC361N	\$533.00

Not UL Listed

### Adapter Kits

Voltage	Trip Amps	Product Number	List Price GO-114L
Convert Armor-Clad Plugs to Spectra® Bus	30-100	ACSB1G	\$128.00
Convert Armor-Clad Plugs to Spectra® Bus	200-225	ACSB4G	\$294.00
Convert Armor-Clad Plugs to Spectra® Bus	400-800	ACSB5G	\$442.00

(Style 7 and 8 shipped after 1/91.) Ground stabs included.

### Miscellaneous Modifications

Plug Assist - Standard for plugs over 100 amperes. Add suffix "P" to the product number for plugs 100 amperes and below, \$54.00 list, GO-114A or B.

## Contactor Plugs—Add to price of required protective device bus plug

Ampere Rating	Type	List Price Adder GO-114A or B
30	Electrically Held	\$1013.00
60	Electrically Held	\$1455.00
100	Electrically Held	\$1875.00
30	Mechanically Held	\$1268.00
60	Mechanically Held	\$1890.00
100	Mechanically Held	\$2430.00
30	Pilot Light	\$249.00
60	Pilot Light	\$249.00
100	Pilot Light	\$249.00
30	Pushbutton or Selector Switch	\$188.00
60	Pushbutton or Selector Switch	\$188.00
100	Pushbutton or Selector Switch	\$188.00
30	Control Transformer <sup>2</sup>	\$248.00
60	Control Transformer <sup>2</sup>	\$345.00
100	Control Transformer <sup>2</sup>	\$480.00
30	Extra Interlock	\$120.00
60	Extra Interlock	\$120.00
100	Extra Interlock	\$120.00
30	Two-wire Control	\$360.00
60	Two-wire Control	\$360.00
100	Two-wire Control	\$360.00
30	Auxiliary Contact	\$99.00
60	Auxiliary Contact	\$99.00
100	Auxiliary Contact	\$99.00

<sup>2</sup>Includes one secondary fuse.

## Options for Fusible Switch Units— Use for Armor-Clad Busway

UL Listed Ampere Rating	Description	List Price Adder GO-114A or B
30	Factory installed Class R fuse clips; add suffix "R" to Product Number	\$56.00
60	Factory installed Class R fuse clips; add suffix "R" to Product Number	\$56.00
100	Factory installed Class R fuse clips; add suffix "R" to Product Number	\$56.00
200	Factory installed Class R fuse clips; add suffix "R" to Product Number	\$71.00
400	Factory installed Class R fuse clips; add suffix "R" to Product Number	\$75.00
600	Factory installed Class R fuse clips; add suffix "R" to Product Number	\$80.00
30	Factory installed Class J fuse clips; add suffix "J" to 600 V plug Product Number	\$32.00
60	Factory installed Class J fuse clips; add suffix "J" to 600 V plug Product Number	\$32.00
100	Factory installed Class J fuse clips; add suffix "J" to 600 V plug Product Number	\$32.00
200	Factory installed Class J fuse clips; add suffix "J" to 600 V plug Product Number	\$32.00
400	Factory installed Class J fuse clips; add suffix "J" to 600 V plug Product Number	\$32.00
600	Factory installed Class J fuse clips; add suffix "J" to 600 V plug Product Number	\$263.00
30	QMW in lieu of QMR; change "R" in Product Number to "W"	\$53.00
60	QMW in lieu of QMR; change "R" in Product Number to "W"	\$53.00
100	QMW in lieu of QMR; change "R" in Product Number to "W"	\$99.00
200	QMW in lieu of QMR; change "R" in Product Number to "W"	\$147.00
400	QMW in lieu of QMR; change "R" in Product Number to "W"	\$395.00
600	QMW in lieu of QMR; change "R" in Product Number to "W"	\$2715.00



# Busway Flex-A-Power® Busway

Types FVA, FVK and LVDP, Application and Product Number Pricing

## Types FVA and FVK Busway

Types FVA and FVK Flex-A-Power® busway are obsolete for new manufacture. Only end boxes and cable tap boxes are available.

## Pricing

FVA/FVK busways are priced by product number.

### Aluminum Bus for Type FVA 225 Amps Three-Phase, Three-Wire, or Three-Wire, DC 600 Volts

Component	Type	Product Number	List Price GO-115A
Accessories	End Box	DASKEB34	<b>\$159.00</b>
Accessories	Cable Tap Box	DAACB32 <sup>1</sup>	<b>\$789.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.

### Aluminum Bus for Type FVA 400 Amps Three-Phase, Three-Wire, or Three-Wire, DC 600 Volts

Component	Type	Product Number	List Price GO-115A
Accessories	End Box	DASKEB36	<b>\$159.00</b>
Accessories	Cable Tap Box	DAACB34 <sup>1</sup>	<b>\$789.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.

### Aluminum Bus for Type FVA 600 Amps Three-Phase, Three-Wire, or Three-Wire, DC 600 Volts

Component	Type	Product Number	List Price GO-115A
Accessories	End Box	DASKEB310	<b>\$159.00</b>
Accessories	Cable Tap Box	DAACB36 <sup>1</sup>	<b>\$789.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.

### Aluminum Bus for Type FVA 800 Amps Three-Phase, Three-Wire, or Three-Wire, DC 600 Volts

Component	Type	Product Number	List Price GO-115A
Accessories	End Box	DASKEB310	<b>\$159.00</b>
Accessories	Cable Tap Box	DAACB38 <sup>1</sup>	<b>\$1046.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.

### Aluminum Bus for Type FVA 225 Amps Three-Phase, Four-Wire 480 Y/277 or 208 Y/120 Volts, Half Capacity Neutral

Component	Type	Product Number	List Price GO-115A
Accessories	End Box	DASKEBN134A	<b>\$159.00</b>
Accessories	Cable Tap Box	DAACBN132A <sup>1</sup>	<b>\$789.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.

### Aluminum Bus for Type FVA 400 Amps Three-Phase, Four-Wire 480 Y/277 or 208 Y/120 Volts, Half Capacity Neutral

Component	Type	Product Number	List Price GO-115A
Accessories	End Box	DASKEBN136A	<b>\$159.00</b>
Accessories	Cable Tap Box	DAACBN134 <sup>1</sup>	<b>\$789.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.





# Busway

## Flex-A-Power® Busway (continued)

Types FVA, FVK and LVDP, Application and Product Number Pricing

### Aluminum Bus for Type FVA 600 Amps Three-Phase, Four-Wire 480 Y/277 or 208 Y/120 Volts, Half Capacity Neutral

Component	Type	Product Number	List Price GO-115A
Accessories	End Box	DASKEBN1310A	<b>\$159.00</b>
Accessories	Cable Tap Box	DAACBN136 <sup>1</sup>	<b>\$951.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.

### Aluminum Bus for Type FVA 800 Amps Three-Phase, Four-Wire 480 Y/277 or 208 Y/120 Volts, Half Capacity Neutral

Component	Type	Product Number	List Price GO-115A
Accessories	End Box	DASKEBN1310A	<b>\$159.00</b>
Accessories	Cable Tap Box	DAACBN138 <sup>1</sup>	<b>\$951.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.

### Copper Bus for Type FVK 225 Amps Three-Phase, Three-Wire, or Three-Wire, DC 600 Volts

Component	Type	Product Number	List Price GO-115C
Accessories	End Box	DASKEB34 <sup>2</sup>	<b>\$159.00</b>
Accessories	Cable Tap Box	DAKCB32 <sup>1</sup>	<b>\$789.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.

<sup>2</sup>GO-115A

### Copper Bus for Type FVK 400 Amps Three-Phase, Three-Wire, or Three-Wire, DC 600 Volts

Component	Type	Product Number	List Price GO-115C
Accessories	End Box	DASKEB34 <sup>2</sup>	<b>\$159.00</b>
Accessories	Cable Tap Box	DAKCB34B <sup>1</sup>	<b>\$789.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.

<sup>2</sup>GO-115A

### Copper Bus for Type FVK 600 Amps Three-Phase, Three-Wire, or Three-Wire, DC 600 Volts

Component	Type	Product Number	List Price GO-115C
Accessories	End Box	DASKEB36 <sup>2</sup>	<b>\$159.00</b>
Accessories	Cable Tap Box	DAKCB36 <sup>1</sup>	<b>\$789.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.

<sup>2</sup>GO-115A

### Copper Bus for Type FVK 800 Amps Three-Phase, Three-Wire, or Three-Wire, DC 600 Volts

Component	Type	Product Number	List Price GO-115C
Accessories	End Box	DASKEB310 <sup>2</sup>	<b>\$159.00</b>
Accessories	Cable Tap Box	DAKCB310 <sup>1</sup>	<b>\$1046.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.

<sup>2</sup>GO-115A

### Copper Bus for Type FVK 1000 Amps Three-Phase, Three-Wire, or Three-Wire, DC 600 Volts

Component	Type	Product Number	List Price GO-115C
Accessories	End Box	DASKEB310 <sup>2</sup>	<b>\$159.00</b>
Accessories	Cable Tap Box	DAKCB310 <sup>1</sup>	<b>\$1046.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.

<sup>2</sup>GO-115A



# Busway Flex-A-Power® Busway (continued)

Types FVA, FVK and LVDP, Application and Product Number Pricing

## Copper Bus for Type FVK 225 Amps Three-Phase, Four-Wire 480 Y/277 or 208 Y/120 Volts, Half Capacity Neutral

Component	Type	Product Number	List Price GO-115C
Accessories	End Box	DASKEBN134A <sup>2</sup>	<b>\$159.00</b>
Accessories	Cable Tap Box	DAKCBN132A <sup>1</sup>	<b>\$789.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.

<sup>2</sup>GO-115A

## Copper Bus for Type FVK 400 Amps Three-Phase, Four-Wire 480 Y/277 or 208 Y/120 Volts, Half Capacity Neutral

Component	Type	Product Number	List Price GO-115C
Accessories	End Box	DASKEBN134A <sup>2</sup>	<b>\$159.00</b>
Accessories	Cable Tap Box	DAKCBN134A <sup>1</sup>	<b>\$789.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.

<sup>2</sup>GO-115A

## Copper Bus for Type FVK 600 Amps Three-Phase, Four-Wire 480 Y/277 or 208 Y/120 Volts, Half Capacity Neutral

Component	Type	Product Number	List Price GO-115C
Accessories	End Box	DASKEBN136A <sup>2</sup>	<b>\$159.00</b>
Accessories	Cable Tap Box	DAKCBN136A <sup>1</sup>	<b>\$789.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.

<sup>2</sup>GO-115A

## Copper Bus for Type FVK 800 Amps Three-Phase, Four-Wire 480 Y/277 or 208 Y/120 Volts, Half Capacity Neutral

Component	Type	Product Number	List Price GO-115C
Accessories	End Box	DASKEBN1310A <sup>2</sup>	<b>\$159.00</b>
Accessories	Cable Tap Box	DAKCBN1310A <sup>1</sup>	<b>\$1046.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.

<sup>2</sup>GO-115A

## Copper Bus for Type FVK 1000 Amps Three-Phase, Four-Wire 480 Y/277 or 208 Y/120 Volts, Half Capacity Neutral

Component	Type	Product Number	List Price GO-115C
Accessories	End Box	DASKEBN1310A <sup>2</sup>	<b>\$159.00</b>
Accessories	Cable Tap Box	DAKCBN1310A <sup>1</sup>	<b>\$1046.00</b>

<sup>1</sup>Center cable tap box. For end cable tap box, price and order this tap box plus an end box.

<sup>2</sup>GO-115A

## Fusible Plugs—Type QMR Three-Phase, Three-Wire

Component	Voltage	Product Number	List Price GO-114C
30	240	FVK321R	<b>\$390.00</b>
60	240	FVK322R	<b>\$435.00</b>
100	240	FVK323R	<b>\$630.00</b>
200	240	FVK324R	<b>\$1109.00</b>
400	240	FVK325RT <sup>4</sup>	<b>\$2988.00</b>
600	240	FVK326R <sup>3</sup>	<b>\$4104.00</b>
30	600	FVK361R	<b>\$435.00</b>
60	600	FVK362R	<b>\$452.00</b>
100	600	FVK363R	<b>\$656.00</b>
200	600	FVK364R	<b>\$1161.00</b>
400	600	FVK365RT <sup>4</sup>	<b>\$2988.00</b>
600	600	FVK366R <sup>3</sup>	<b>\$4104.00</b>

**Externally Operated with Class H Fuse Clips. Fuses Not Included.** To add Class R or Class J fuse provisions, see page 6-56.

<sup>3</sup>Special hanger required on LVDP. Furnish nameplate data and see extension panel table. See page 6-56.

<sup>4</sup>T suffix on product number indicates 2(200A) switches used to make up a 400A requirement.

## Fusible Plugs—Type QMR Three-Phase, Four-Wire

Component	Voltage	Product Number	List Price GO-114C
30	240	FVK421R	<b>\$470.00</b>
60	240	FVK422R	<b>\$506.00</b>
100	240	FVK423R	<b>\$710.00</b>
200	240	FVK424R	<b>\$1250.00</b>
400	240	FVK425RT <sup>4</sup>	<b>\$3192.00</b>
600	240	FVK426R <sup>3</sup>	<b>\$4485.00</b>
30	480	FVK461R	<b>\$506.00</b>
60	480	FVK462R	<b>\$524.00</b>
100	480	FVK463R	<b>\$762.00</b>
200	480	FVK464R	<b>\$1295.00</b>
400	480	FVK465RT <sup>4</sup>	<b>\$3192.00</b>
600	480	FVK466R <sup>3</sup>	<b>\$4485.00</b>

**Externally Operated with Class H Fuse Clips. Fuses Not Included.** To add Class R or Class J fuse provisions, see page 6-56.

<sup>3</sup>Special hanger required on LVDP. Furnish nameplate data and see extension panel table. See page 6-56.

<sup>4</sup>T suffix on product number indicates 2(200A) switches used to make up a 400A requirement.

## Ground Detector Plugs Three-Phase, Three-Wire

Component	Voltage	Product Number	List Price GO-114C
GN	208-240	DAGN32	<b>\$656.00</b>
GN	440-600	DAGN36	<b>\$656.00</b>

(Not UL listed)



# Busway Flex-A-Power® Busway

Types FVA, FVK and LVDP, Busway Plugs, Product Number Pricing

## Circuit Breakers - Standard Frames Three-Phase, Three-Wire TEB

Voltage	Trip Amps	Product Number	List Price GO-114C
240 Volts Fixed Trip	15	FVK31EB	\$630.00
240 Volts Fixed Trip	20	FVK32EB	\$630.00
240 Volts Fixed Trip	30	FVK33EB	\$630.00
240 Volts Fixed Trip	40	FVK34EB	\$630.00
240 Volts Fixed Trip	50	FVK35EB	\$630.00
240 Volts Fixed Trip	70	FVK37EB	\$771.00
240 Volts Fixed Trip	100	FVK310EB	\$771.00

## Circuit Breakers - Standard Frames Three-Phase, Three-Wire TED4

Voltage	Trip Amps	Product Number	List Price GO-114C
480 Volts Fixed Trip	15	FVK31ED4	\$798.00
480 Volts Fixed Trip	20	FVK32ED4	\$798.00
480 Volts Fixed Trip	30	FVK33ED4	\$798.00
480 Volts Fixed Trip	40	FVK34ED4	\$798.00
480 Volts Fixed Trip	50	FVK35ED4	\$798.00
480 Volts Fixed Trip	70	FVK37ED4	\$888.00
480 Volts Fixed Trip	100	FVK310ED4	\$896.00

## Circuit Breakers - Standard Frames Three-Phase, Three-Wire TED6

Voltage	Trip Amps	Product Number	List Price GO-114C
600 Volts Fixed Trip	15	FVK31ED6	\$887.00
600 Volts Fixed Trip	20	FVK32ED6	\$887.00
600 Volts Fixed Trip	30	FVK33ED6	\$887.00
600 Volts Fixed Trip	40	FVK34ED6	\$887.00
600 Volts Fixed Trip	50	FVK35ED6	\$887.00
600 Volts Fixed Trip	70	FVK37ED6	\$984.00
600 Volts Fixed Trip	100	FVK310ED6	\$984.00

## Circuit Breakers - Standard Frames Three-Phase, Three-Wire TFK

Voltage	Trip Amps	Product Number	List Price GO-114C
600 Volts Inter. Trip	70	FVK37FK	\$2474.00
600 Volts Inter. Trip	100	FVK310FK	\$2474.00
600 Volts Inter. Trip	125	FVK312FK	\$2474.00
600 Volts Inter. Trip	150	FVK315FK	\$2474.00
600 Volts Inter. Trip	200	FVK320FK	\$2474.00
600 Volts Inter. Trip	225	FVK322FK	\$2474.00

## Circuit Breakers - Standard Frames Three-Phase, Three-Wire TJK4

Voltage	Trip Amps	Product Number	List Price GO-114C
600 Volts Inter. Trip	125	FVK312JK	\$4680.00
600 Volts Inter. Trip	150	FVK315JK	\$4680.00
600 Volts Inter. Trip	200	FVK320JK	\$4680.00
600 Volts Inter. Trip	225	FVK322JK	\$4680.00
600 Volts Inter. Trip	300	FVK330JK	\$4680.00
600 Volts Inter. Trip	400	FVK340JK	\$4680.00

## Circuit Breakers - Standard Frames Three-Phase, Three-Wire TK4V

Voltage	Trip Amps	Product Number	List Price GO-114C
600 Volts	300	FVK330KM	\$7145.00
600 Volts	400	FVK340KM	\$7145.00
600 Volts	500	FVK350KM	\$7145.00
600 Volts	600	FVK360KM	\$7145.00
600 Volts	700	FVK370KM	\$7997.00
600 Volts	800	FVK380KM	\$7997.00

## Circuit Breakers - Standard Frames Three-Phase, Four-Wire TEB

Voltage	Trip Amps	Product Number	List Price GO-114C
240 Volts Fixed Trip	15	FVK41EB	\$710.00
240 Volts Fixed Trip	20	FVK42EB	\$710.00
240 Volts Fixed Trip	30	FVK43EB	\$710.00
240 Volts Fixed Trip	40	FVK44EB	\$710.00
240 Volts Fixed Trip	50	FVK45EB	\$710.00
240 Volts Fixed Trip	70	FVK47EB	\$842.00
240 Volts Fixed Trip	100	FVK410EB	\$842.00

## Circuit Breakers - Standard Frames Three-Phase, Four-Wire TED4

Voltage	Trip Amps	Product Number	List Price GO-114C
480 Volts Fixed Trip	15	FVK41ED4	\$887.00
480 Volts Fixed Trip	20	FVK42ED4	\$887.00
480 Volts Fixed Trip	30	FVK43ED4	\$887.00
480 Volts Fixed Trip	40	FVK44ED4	\$887.00
480 Volts Fixed Trip	50	FVK45ED4	\$887.00
480 Volts Fixed Trip	70	FVK47ED4	\$966.00
480 Volts Fixed Trip	100	FVK410ED4	\$966.00

## Circuit Breakers - Standard Frames Three-Phase, Four-Wire TED6

Not Available

## Circuit Breakers - Standard Frames Three-Phase, Four-Wire TFK

Voltage	Trip Amps	Product Number	List Price GO-114C
600 Volts Inter. Trip	70	FVK47FK	\$2607.00
600 Volts Inter. Trip	100	FVK410FK	\$2607.00
600 Volts Inter. Trip	125	FVK412FK	\$2607.00
600 Volts Inter. Trip	150	FVK415FK	\$2607.00
600 Volts Inter. Trip	200	FVK420FK	\$2607.00
600 Volts Inter. Trip	225	FVK422FK	\$2607.00



# Busway Flex-A-Power® Busway (continued)

Types FVA, FVK and LVDP, Busway Plugs, Product Number Pricing

## Circuit Breakers—Standard Frames Three-Phase, Four-Wire TJK4

Voltage	Trip Amps	Product Number	List Price GO-114C
600 Volts Inter. Trip	125	FVK412JK	\$4911.00
600 Volts Inter. Trip	150	FVK415JK	\$4911.00
600 Volts Inter. Trip	200	FVK420JK	\$4911.00
600 Volts Inter. Trip	225	FVK422JK	\$4911.00
600 Volts Inter. Trip	300	FVK430JK	\$4911.00
600 Volts Inter. Trip	400	FVK440JK	\$4911.00

## Circuit Breakers—Standard Frames Three-Phase, Four-Wire TK4V

Voltage	Trip Amps	Product Number	List Price GO-114C
600 Volts	300	FVK430KM	\$7464.00
600 Volts	400	FVK440KM	\$7464.00
600 Volts	500	FVK450KM	\$7464.00
600 Volts	600	FVK460KM	\$7464.00
600 Volts	700	FVK470KM	\$8333.00
600 Volts	800	FVK480KM	\$8333.00

## Circuit Breakers—Hi-Break Frames<sup>1</sup> Three-Phase, Three-Wire THED

Voltage	Trip Amps	Product Number	List Price GO-114C
600 Volts Fixed Trip	15	FVK31HED	\$1134.00
600 Volts Fixed Trip	20	FVK32HED	\$1134.00
600 Volts Fixed Trip	30	FVK33HED	\$1134.00
600 Volts Fixed Trip	40	FVK34HED	\$1134.00
600 Volts Fixed Trip	50	FVK35HED	\$1134.00
600 Volts Fixed Trip	70	FVK37HED	\$1241.00
600 Volts Fixed Trip	100	FVK310HED	\$1241.00

## Circuit Breakers—Hi-Break Frames<sup>1</sup> Three-Phase, Three-Wire THFK

Voltage	Trip Amps	Product Number	List Price GO-114C
600 Volts Inter. Trip	70	FVK37HFK	\$4070.00
600 Volts Inter. Trip	100	FVK310HFK	\$4070.00
600 Volts Inter. Trip	125	FVK312HFK	\$4070.00
600 Volts Inter. Trip	150	FVK315HFK	\$4070.00
600 Volts Inter. Trip	200	FVK320HFK	\$4070.00
600 Volts Inter. Trip	225	FVK322HFK	\$4070.00

## Circuit Breakers—Hi-Break Frames<sup>1</sup> Three-Phase, Three-Wire THJK4

Voltage	Trip Amps	Product Number	List Price GO-114C
600 Volts Inter. Trip	125	FVK312HJK	\$6471.00
600 Volts Inter. Trip	150	FVK315HJK	\$6471.00
600 Volts Inter. Trip	200	FVK320HJK	\$6471.00
600 Volts Inter. Trip	225	FVK322HJK	\$6471.00
600 Volts Inter. Trip	300	FVK330HJK	\$6471.00
600 Volts Inter. Trip	400	FVK340HJK	\$6471.00

## Circuit Breakers—Hi-Break Frames<sup>1</sup> Three-Phase, Three-Wire THKM8

Voltage	Trip Amps	Product Number	List Price GO-114C
600 Volts Inter. Trip	300	FVK330HKM	\$7695.00
600 Volts Inter. Trip	400	FVK340HKM	\$7695.00
600 Volts Inter. Trip	500	FVK350HKM	\$7695.00
600 Volts Inter. Trip	600	FVK360HKM	\$7695.00
600 Volts Inter. Trip	700	FVK370HKM	\$9042.00
600 Volts Inter. Trip	800	FVK380HKM	\$9042.00

## Circuit Breakers—Hi-Break Frames<sup>1</sup> Three-Phase, Four-Wire THED

Voltage	Trip Amps	Product Number	List Price GO-114C
600 Volts Fixed Trip	15	FVK41HED	\$1206.00
600 Volts Fixed Trip	20	FVK42HED	\$1206.00
600 Volts Fixed Trip	30	FVK43HED	\$1206.00
600 Volts Fixed Trip	40	FVK44HED	\$1206.00
600 Volts Fixed Trip	50	FVK45HED	\$1206.00
600 Volts Fixed Trip	70	FVK47HED	\$1322.00
600 Volts Fixed Trip	100	FVK410HED	\$1322.00

## Circuit Breakers—Hi-Break Frames<sup>1</sup> Three-Phase, Four-Wire THFK

Voltage	Trip Amps	Product Number	List Price GO-114C
600 Volts Inter. Trip	70	FVK47HFK	\$4211.00
600 Volts Inter. Trip	100	FVK410HFK	\$4211.00
600 Volts Inter. Trip	125	FVK412HFK	\$4211.00
600 Volts Inter. Trip	150	FVK415HFK	\$4211.00
600 Volts Inter. Trip	200	FVK420HFK	\$4211.00
600 Volts Inter. Trip	225	FVK422HFK	\$4211.00

## Circuit Breakers—Hi-Break Frames<sup>1</sup> Three-Phase, Four-Wire THJK4

Voltage	Trip Amps	Product Number	List Price GO-114C
600 Volts Inter. Trip	125	FVK412HJK	\$6684.00
600 Volts Inter. Trip	150	FVK415HJK	\$6684.00
600 Volts Inter. Trip	200	FVK420HJK	\$6684.00
600 Volts Inter. Trip	225	FVK422HJK	\$6684.00
600 Volts Inter. Trip	300	FVK430HJK	\$6684.00
600 Volts Inter. Trip	400	FVK440HJK	\$6684.00

## Circuit Breakers—Hi-Break Frames<sup>1</sup> Three-Phase, Four-Wire THKM8

Voltage	Trip Amps	Product Number	List Price GO-114C
600 Volts Inter. Trip	300	FVK430HKM	\$8031.00
600 Volts Inter. Trip	400	FVK440HKM	\$8031.00
600 Volts Inter. Trip	500	FVK450HKM	\$8031.00
600 Volts Inter. Trip	600	FVK460HKM	\$8031.00
600 Volts Inter. Trip	700	FVK470HKM	\$9414.00
600 Volts Inter. Trip	800	FVK480HKM	\$9414.00

<sup>1</sup>Special hanger required for all plugs except those with TEB, TED4, TED6, and THED frames when mounted on LVDP busway. Furnish complete LVDP busway nameplate data when ordering.



# Busway Flex-A-Power® Busway (continued)

Types FVA, FVK and LVDP, Busway Plugs, Product Number Pricing

## Enclosure Only Three-Phase, Three-Wire

Frame Type	Amperage	Product Number	List Price GO-114C
E	100	FVK3100E	\$339.00
F	225	FVK3225F	\$741.00

Breaker shipped separately for field assembly.

## Enclosure Only Three-Phase, Four-Wire

Frame Type	Amperage	Product Number	List Price GO-114C
E	100	FVK4100E	\$411.00
F	225	FVK4225F	\$854.00

Breaker shipped separately for field assembly.

## Options for Fusible Switch Units – Use for FVK

UL Listed Ampere Rating	Description	List Price Adder GO-114C
30	Factory installed Class R fuse clips; add "R" suffix to Product Number	\$60.00
60	Factory installed Class R fuse clips; add "R" suffix to Product Number	\$60.00
100	Factory installed Class R fuse clips; add "R" suffix to Product Number	\$77.00
200	Factory installed Class R fuse clips; add "R" suffix to Product Number	\$62.00
400	Factory installed Class R fuse clips; add "R" suffix to Product Number	\$83.00
600	Factory installed Class R fuse clips; add "R" suffix to Product Number	\$86.00
30	Factory installed Class J fuse clips; add "J" suffix to 600 V plug Product Number	\$35.00
60	Factory installed Class J fuse clips; add "J" suffix to 600 V plug Product Number	\$35.00
100	Factory installed Class J fuse clips; add "J" suffix to 600 V plug Product Number	\$35.00
200	Factory installed Class J fuse clips; add "J" suffix to 600 V plug Product Number	\$35.00
400	Factory installed Class J fuse clips; add "J" suffix to 600 V plug Product Number	\$35.00
600	Factory installed Class J fuse clips; add "J" suffix to 600 V plug Product Number <sup>1</sup>	\$284.00
30	QMW in lieu of QMR; change "R" in Product Number to "W"	\$57.00
60	QMW in lieu of QMR; change "R" in Product Number to "W"	\$57.00
100	QMW in lieu of QMR; change "R" in Product Number to "W"	\$107.00
200	QMW in lieu of QMR; change "R" in Product Number to "W"	\$161.00
400	QMW in lieu of QMR; change "R" in Product Number to "W"	\$426.00
600	QMW in lieu of QMR; change "R" in Product Number to "W"	N/A

<sup>1</sup>Not UL listed.

## Extension Pans—or LVDP Busway Plugs

Select Busway Plugs then order Extension Pans from table.  
No charge when ordering with plug.

Flex-A-Plug Prefix	Suffix	Ampere Rating	Extension Pan Product Number
TVK	R, RT	30-400	None
TVK	R, RT	600	DF1PPKM
TVK	EB, ED4, ED6, HED	15-150	None
TVK	FJ, FK, HFK	70-225	None
TVK	JJ, JK, HLK	125-400	DF1PPJ
TVK	KM, HKM	125-800	DF1PPKM



# Busway

## Flex-A-Power® Busway

Types FVA, FVK and LVDP, Outlines and Dimensions

### Hanger Dimensions

With Aluminum Bus Bars

Amperage	Housing Depth (in.)	Hanger Dimension A (in.)	Hanger Dimension B (in.)	Hanger Dimension C (in.)
225 Amps	3.19	4.69	1.88	2.5
400 Amps	4.19	5.19	1.88	2.56
600 Amps	6.19	6.19	1.63	3.81
800 Amps	6.19	6.19	1.63	3.81

### Hanger Dimensions

With Copper Bus Bars

Amperage	Housing Depth (in.)	Hanger Dimension A (in.)	Hanger Dimension B (in.)	Hanger Dimension C (in.)
225 Amps	3.19	4.69	1.44	2.5
400 Amps	3.19	4.69	1.44	2.5
600 Amps	4.19	5.19	1.88	2.56
800 Amps	6.19	6.19	1.63	3.81
1000 Amps	6.19	6.19	1.63	3.81

### Cable Tap Boxes - Dimensions

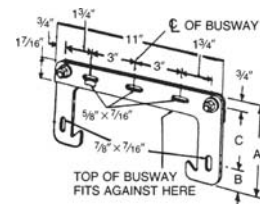
Amperage	Dimension A	Dimension B	Dimension C	No. of #2-600kcmil Lugs/Ø N & GRD
225 Amps	6	32	16	1,1
400 Amps	6	32	16	1,1
600 Amps <sup>1</sup>	6	32	16	1,2
800 Amps <sup>2</sup>	8	52	20	2,3
1000 Amps <sup>2</sup>	8	52	20	2,3

<sup>1</sup>For FVA, use 800 amp dimensions.

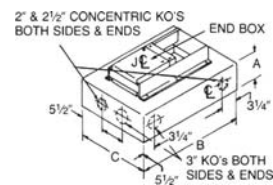
<sup>2</sup>No knockouts in this box.

### End Boxes - Dimensions

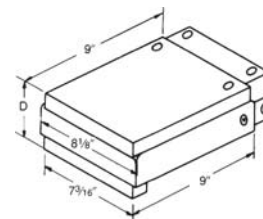
Amperage	Conductor Material	Dimension D
225 Amps, 400 Amps	Copper	3.19"
600 Amps	Copper	4.19"
800 Amps, 1000 Amps	Copper	6.19"
225 Amps	Aluminum	3.19"
400 Amps	Aluminum	4.19"
600 Amps, 800 Amps	Aluminum	6.19"



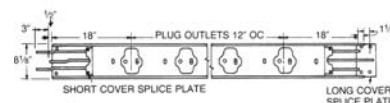
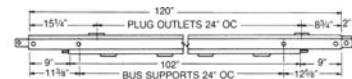
Hanger Dimensions



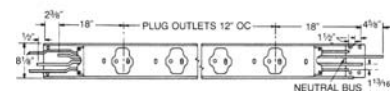
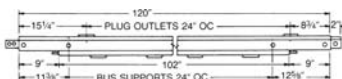
End-of-run cable tap box. For center (joint) cable tap box omit the end box.



End box used to close off end-of-run.



Standard lengths, three-wire systems, 600 volts maximum.



Standard lengths, three-phase, four-wire systems, 480 Y/277 Volts



# Busway Type DE Busway

## Distribution Equipment, Busway Plugs for Obsolete DE Busway, Product Number Pricing

A variety of fusible and circuit breaker plugs are available for Type DE busway. Nonfusible operating switch plugs are available at the same price as fusible units. (Not UL Listed) Order by description. For Class R or Class J provisions, see page 6-56.

### Circuit Breakers—Standard Frames Three-Phase, Three-Wire TEB

Voltage	Trip Amps	Product Number	List Price GO-114C
240 V Fixed Trip	15	DE31EB	<b>\$683.00</b>
240 V Fixed Trip	20	DE32EB	<b>\$683.00</b>
240 V Fixed Trip	30	DE33EB	<b>\$683.00</b>
240 V Fixed Trip	40	DE34EB	<b>\$683.00</b>
240 V Fixed Trip	50	DE35EB	<b>\$683.00</b>
240 V Fixed Trip	70	DE37EB	<b>\$834.00</b>
240 V Fixed Trip	100	DE310EB	<b>\$834.00</b>

### Circuit Breakers—Standard Frames Three-Phase, Four-Wire TEB

Voltage	Trip Amps	Product Number	List Price GO-114C
240 V Fixed Trip	15	DE41EB	<b>\$771.00</b>
240 V Fixed Trip	20	DE42EB	<b>\$771.00</b>
240 V Fixed Trip	30	DE43EB	<b>\$771.00</b>
240 V Fixed Trip	40	DE44EB	<b>\$771.00</b>
240 V Fixed Trip	50	DE45EB	<b>\$771.00</b>
240 V Fixed Trip	70	DE47EB	<b>\$905.00</b>
240 V Fixed Trip	100	DE410EB	<b>\$905.00</b>

### Circuit Breakers—Standard Frames Three-Phase, Three-Wire TED4

Voltage	Trip Amps	Product Number	List Price GO-114C
480 V Fixed Trip	15	DE31ED4	<b>\$869.00</b>
480 V Fixed Trip	20	DE32ED4	<b>\$869.00</b>
480 V Fixed Trip	30	DE33ED4	<b>\$869.00</b>
480 V Fixed Trip	40	DE34ED4	<b>\$869.00</b>
480 V Fixed Trip	50	DE35ED4	<b>\$869.00</b>
480 V Fixed Trip	70	DE37ED4	<b>\$966.00</b>
480 V Fixed Trip	100	DE310ED4	<b>\$966.00</b>

### Circuit Breakers—Standard Frames Three-Phase, Four-Wire TED4

Voltage	Trip Amps	Product Number	List Price GO-114C
480 V Fixed Trip	15	DE41ED4	<b>\$957.00</b>
480 V Fixed Trip	20	DE42ED4	<b>\$957.00</b>
480 V Fixed Trip	30	DE43ED4	<b>\$957.00</b>
480 V Fixed Trip	40	DE44ED4	<b>\$957.00</b>
480 V Fixed Trip	50	DE45ED4	<b>\$957.00</b>
480 V Fixed Trip	70	DE47ED4	<b>\$1046.00</b>
480 V Fixed Trip	100	DE410ED4	<b>\$1046.00</b>

### Circuit Breakers—Standard Frames Three-Phase, Three-Wire TED6

Voltage	Trip Amps	Product Number	List Price GO-114C
600 V Fixed Trip	15	DE31ED6	<b>\$957.00</b>
600 V Fixed Trip	20	DE32ED6	<b>\$957.00</b>
600 V Fixed Trip	30	DE33ED6	<b>\$957.00</b>
600 V Fixed Trip	40	DE34ED6	<b>\$957.00</b>
600 V Fixed Trip	50	DE35ED6	<b>\$957.00</b>
600 V Fixed Trip	70	DE37ED6	<b>\$1064.00</b>
600 V Fixed Trip	100	DE310ED6	<b>\$1064.00</b>

### Circuit Breakers—Standard Frames Three-Phase, Four-Wire TED6

Voltage	Trip Amps	Product Number	List Price GO-114C
600 V Fixed Trip	15	DE41ED6	<b>\$1037.00</b>
600 V Fixed Trip	20	DE42ED6	<b>\$1037.00</b>
600 V Fixed Trip	30	DE43ED6	<b>\$1037.00</b>
600 V Fixed Trip	40	DE44ED6	<b>\$1037.00</b>
600 V Fixed Trip	50	DE45ED6	<b>\$1037.00</b>
600 V Fixed Trip	70	DE47ED6	<b>\$1143.00</b>
600 V Fixed Trip	100	DE410ED6	<b>\$1143.00</b>

### Circuit Breakers—Standard Frames Three-Phase, Three-Wire TFK

Voltage	Trip Amps	Product Number	List Price GO-114C
600 V Fixed Trip	70	DE37FK	<b>\$2678.00</b>
600 V Fixed Trip	100	DE310FK	<b>\$2678.00</b>
600 V Fixed Trip	125	DE312FK	<b>\$2678.00</b>
600 V Fixed Trip	150	DE315FK	<b>\$2678.00</b>
600 V Fixed Trip	200	DE320FK	<b>\$2678.00</b>
600 V Fixed Trip	225	DE322FK	<b>\$2678.00</b>

### Circuit Breakers—Standard Frames Three-Phase, Four-Wire TFK

Voltage	Trip Amps	Product Number	List Price GO-114C
600 V Fixed Trip	70	DE47FK	<b>\$2819.00</b>
600 V Fixed Trip	100	DE410FK	<b>\$2819.00</b>
600 V Fixed Trip	125	DE412FK	<b>\$2819.00</b>
600 V Fixed Trip	150	DE415FK	<b>\$2819.00</b>
600 V Fixed Trip	200	DE420FK	<b>\$2819.00</b>
600 V Fixed Trip	225	DE422FK	<b>\$2819.00</b>

### Circuit Breakers—Standard Frames Three-Phase, Three-Wire TJK4

Voltage	Trip Amps	Product Number	List Price GO-114C
600 V Inter. Trip	125	DFPJK1312DE	<b>\$5072.00</b>
600 V Inter. Trip	150	DFPJK1315DE	<b>\$5072.00</b>
600 V Inter. Trip	200	DFPJK1320DE	<b>\$5072.00</b>
600 V Inter. Trip	225	DFPJK1322DE	<b>\$5072.00</b>
600 V Inter. Trip	300	DFPJK1330DE	<b>\$5072.00</b>
600 V Inter. Trip	400	DFPJK1340DE	<b>\$5072.00</b>

### Circuit Breakers—Standard Frames Three-Phase, Four-Wire TJK4

Voltage	Trip Amps	Product Number	List Price GO-114C
600 V Inter. Trip	125	DFPJK1412DE	<b>\$5301.00</b>
600 V Inter. Trip	150	DFPJK1415DE	<b>\$5301.00</b>
600 V Inter. Trip	200	DFPJK1420DE	<b>\$5301.00</b>
600 V Inter. Trip	225	DFPJK1422DE	<b>\$5301.00</b>
600 V Inter. Trip	300	DFPJK1430DE	<b>\$5301.00</b>
600 V Inter. Trip	400	DFPJK1440DE	<b>\$5301.00</b>



# Busway Type DE Busway

Distribution Equipment, Busway Plugs for Obsolete DE Busway, Product Number Pricing

## Fusible—Operating Switch Type Three-Phase, Three-Wire

Amperage	Voltage	Product Number	List Price GO-114C
30	240	DE321R	\$426.00
60	240	DE322R	\$470.00
100	240	DE323R	\$683.00
200	240	DE324R	\$1197.00
400	240	DE325RT	\$3227.00
600	240	DE326R	\$4433.00
30	600	DE361R	\$470.00
60	600	DE362R	\$488.00
100	600	DE363R	\$710.00
200	600	DE364R	\$1250.00
400	600	DE365R	\$3227.00
600	600	DE366R	\$4433.00

With QMR Interrupter (with Class H fuse clips—fuses not included)

## Fusible—Operating Switch Type Three-Phase, Four-Wire

Amperage	Voltage	Product Number	List Price GO-114C
30	240	DE421R	\$504.00
60	240	DE422R	\$542.00
100	240	DE423R	\$771.00
200	240	DE424R	\$1347.00
400	240	DE425RT	\$4499.00
600	240	DE426R	\$4841.00
30	600	DE461R	\$542.00
60	600	DE462R	\$567.00
100	600	DE463R	\$825.00
200	600	DE464R	\$1392.00
400	600	DE465RT	\$3449.00
600	600	DE466R	\$4841.00

With QMR Interrupter (with Class H fuse clips—fuses not included)

## Circuit Breakers—Hi-Break Frames Three-Phase, Three-Wire THED

Amperage	Voltage	Product Number	List Price GO-114C
600 V Fixed Trip	15	DE31HED	\$1224.00
600 V Fixed Trip	20	DE32HED	\$1224.00
600 V Fixed Trip	30	DE33HED	\$1224.00
600 V Fixed Trip	40	DE34HED	\$1224.00
600 V Fixed Trip	50	DE35HED	\$1224.00
600 V Fixed Trip	70	DE37HED	\$1224.00
600 V Fixed Trip	100	DE310HED	\$1224.00

## Circuit Breakers—Hi-Break Frames Three-Phase, Three-Wire THFK

Amperage	Voltage	Product Number	List Price GO-114C
600 V Inter. Trip	70	DE37HFK	\$4397.00
600 V Inter. Trip	100	DE310HFK	\$4397.00
600 V Inter. Trip	125	DE312HFK	\$4397.00
600 V Inter. Trip	150	DE315HFK	\$4397.00
600 V Inter. Trip	200	DE320HFK	\$4397.00
600 V Inter. Trip	225	DE322HFK	\$4397.00

## Circuit Breakers—Hi-Break Frames Three-Phase, Three-Wire THJK4

Amperage	Voltage	Product Number	List Price GO-114C
600 V Inter. Trip	125	DFPHJK312DE	\$7004.00
600 V Inter. Trip	150	DFPHJK315DE	\$7004.00
600 V Inter. Trip	200	DFPHJK320DE	\$7004.00
600 V Inter. Trip	225	DFPHJK322DE	\$7004.00
600 V Inter. Trip	300	DFPHJK330DE	\$7004.00
600 V Inter. Trip	400	DFPHJK340DE	\$7004.00

## Circuit Breakers—Hi-Break Frames Three-Phase, Four-Wire THED

Amperage	Voltage	Product Number	List Price GO-114C
600 V Fixed Trip	15	DE41HED	\$1304.00
600 V Fixed Trip	20	DE42HED	\$1304.00
600 V Fixed Trip	30	DE43HED	\$1304.00
600 V Fixed Trip	40	DE44HED	\$1304.00
600 V Fixed Trip	50	DE45HED	\$1304.00
600 V Fixed Trip	70	DE47HED	\$1428.00
600 V Fixed Trip	100	DE410HED	\$1428.00

## Circuit Breakers—Hi-Break Frames Three-Phase, Four-Wire THFK

Amperage	Voltage	Product Number	List Price GO-114C
600 V Inter. Trip	70	DE47HFK	\$4539.00
600 V Inter. Trip	100	DE410HFK	\$4539.00
600 V Inter. Trip	125	DE412HFK	\$4539.00
600 V Inter. Trip	150	DE415HFK	\$4539.00
600 V Inter. Trip	200	DE420HFK	\$4539.00
600 V Inter. Trip	225	DE422HFK	\$4539.00

## Circuit Breakers—Hi-Break Frames Three-Phase, Four-Wire THJK4

Amperage	Voltage	Product Number	List Price GO-114C
600 V Inter. Trip	125	DFPHJK412DE	\$7235.00
600 V Inter. Trip	150	DFPHJK415DE	\$7235.00
600 V Inter. Trip	200	DFPHJK420DE	\$7235.00
600 V Inter. Trip	225	DFPHJK422DE	\$7235.00
600 V Inter. Trip	300	DFPHJK430DE	\$7235.00
600 V Inter. Trip	400	DFPHJK440DE	\$7235.00

## Ground Detector Plugs Three-Phase, Three-Wire

Amperage	Voltage	Product Number	List Price GO-114C
GN	208-240	DEGN32R	\$683.00
GN	440-600	DEGN36R	\$683.00

(Not UL Listed)





# Section 7: Services and Spare Parts

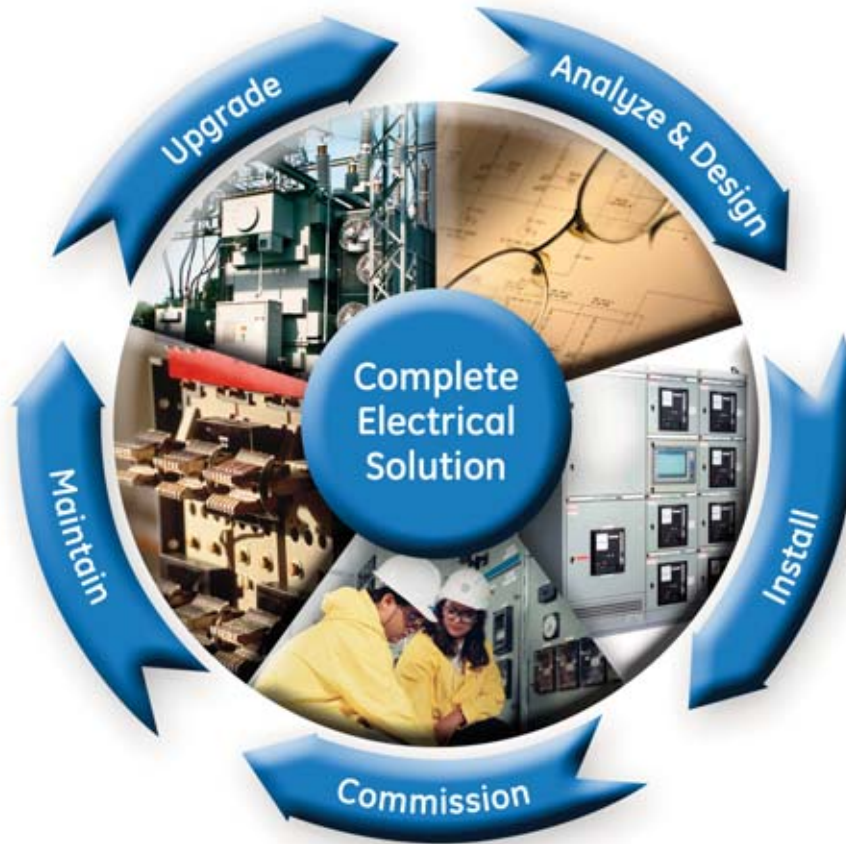
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# Services and Spare Parts Introduction

GE offers a complete solution for your power delivery needs — from new product installation, startup, and commissioning services to customer training, site surveys, and audits such as Power Systems Studies and Arc Flash Hazard Analysis. Our services are designed to assist you no matter where you are in the process of planning, maintaining, or upgrading your equipment.



Lifecycle services for electrical equipment

(Click diagram arrows for more information)

## Contact Information

For 24 x 7 emergency field service, call:

**1-888-GE4-SERV**

**1-888-434-7378 (US)**

**1-540-378-3280 (Int'l)**



# Services and Spare Parts

## Service Agreements for Electrical Balance of Plant Services

### Overview

The electrical infrastructure of your generating station is critical to maximizing power delivery to the grid. Effectively managing and optimizing the entire life cycle of your power delivery assets—from design to maintenance to upgrades—can help you avoid failures resulting in the loss of revenue or penalties.

GE Energy offers a wide range of Electrical Balance of Plant (BOP) services designed to improve the performance and reliability of your power delivery systems.

Electrical BOP services offer you flexibility in both purchase options and plan components that match your infrastructure management needs.

Services can range from basic inspection and maintenance of power delivery components to agreements that include forced outage support and availability guarantees.

### Features

GE offers a range of service contracts designed to meet your needs. At the most basic level, the transactional contract is designed to provide planned maintenance for the electrical equipment within your plant with no long-term contractual obligation. The Multi-Year Contract and Electrical Contractual Service Agreement (CSA) incorporate volume discounts and risk sharing. Regardless of the contract level you choose, your electrical maintenance services will be delivered by highly skilled resources with expertise in a wide range of products, industries and systems.

Implementation includes comprehensive testing, analysis and troubleshooting, via leading edge technology and consistent service delivery based on standardized methods and procedures. GE field service engineers have direct access to GE product design teams who maintain expertise in the intricate details of power system equipment.

### Features available with each service level include:

Contract Features	Transactional	Multi-Year Contract	Electrical CSA
<b>Planned Maintenance Costs</b>	Variable	Fixed	Fixed
<b>Risk Sharing</b>	Not Included	Not Included	Included
<b>Unplanned Maintenance</b>	Not Included	Optional Add	Included
<b>Escalation Protection</b>	Not Included	Included	Included
<b>Payment Stream</b>	Transactional	Level	Level
<b>Spare Units Availability</b>	Not Available	Not Available	Optional
<b>Performance Guarantees</b>	Not Available	Limited	Included
<b>Availability Guarantees</b>	Not Available	Not Available	Included



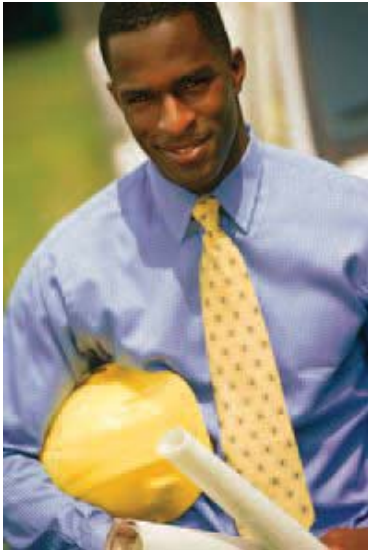
# Services and Spare Parts

## Service Agreements for Electrical Balance of Plant Services

### Benefits

- Increased plant availability
- Extended equipment life
- Reduced forced outages
- Minimized performance risk
- World class Environmental Health and Safety procedures
- Increased facility profits through fixed costs and unplanned coverage
- Reduced inventory/parts cost through preventive diagnostics

GE has provided electrical equipment and maintenance to power plants for over 100 years. Our combined resources include a wide range of engineering specialties, as well as experienced service and product design professionals. This team has the knowledge and skills to develop advanced inspection and maintenance practices that can improve the effectiveness of your plant's electrical infrastructure.



### Applicability

Service Agreements for electrical BOP services are intended for domestic and international utility generating stations and independent power producers. Service agreements include the components of your electrical distribution system associated with gas turbine/steam turbine combined or simple cycle plants. Covered equipment may include:

- Transformers and accessories
- Isolated phase bus duct
- Medium/low voltage switchgear
- Disconnect switches
- Motor starters and motor control centers
- Protective relaying
- UPS and battery systems
- Motors
- Mechanical equipment

To learn more about this offering, contact your GE Energy sales representative, call 1-888-GE4-Serv or 540-378-3280, or visit [gepower.com](http://gepower.com).

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# Services and Spare Parts

## Transformer Substation Services

### Overview

Today's demands on power substations are greater than ever before, challenging operators to maintain a continuous, reliable power supply and reduce costs. A rigorous, proactive maintenance program is the key to minimizing transformer failures and unplanned outages.



GE Energy's experienced transformer services team can help you develop and implement an effective transformer maintenance plan while making the most efficient use of your budget. Whether you need a day of service on a single unit, or comprehensive plan for your entire transformer network, GE Energy can:

- **Evaluate** the condition of your equipment and status of existing maintenance programs
- **Structure** a maintenance plan to balance your needs with your budget
- **Plan** the required services according to your schedule
- **Perform** the required work – on time, on budget

With decades of experience servicing transformers at customer sites, GE Energy has the resources to meet your substation needs.

### Dielectric Fluid Services

Annual dielectric fluid analysis is the single most important element of an effective transformer maintenance plan. Routine testing and appropriate corrective treatments minimize the damage to internal components, reduce the risk of an unplanned outage, and dramatically increase the life expectancy of the unit. Test results can also be used to assess the mechanical condition of the transformer and indicate specific repairs which may be required.

GE Energy offers comprehensive dielectric fluid services to detect fluid degradation in its early stages and provide customized preventive maintenance solutions, including:

- Oil sample collection and laboratory testing
- Dehydration services - on energized or de-energized equipment
  - Standard multi-pass dehydration
  - Vacuum dehydration with cryogenic pump (cold trap) moisture collection services
  - In-shop "oven bake" and vacuum chamber dehydration

- Degasification services
- Complete reclamation of fluid, including flushing of the core and coil
- Special fluids services
  - Silicone
  - RTemp
  - FR3

Fluid services projects can be managed by GE, or you can lease our crews and equipment for in-house project management.

### Mechanical Services

Our experienced technicians can also assist with mechanical maintenance requirements, including:

- Installation, assembly and fill of new transformers
- Complete repairs
  - Bushing replacements
  - Regasketing
- Exterior restoration

### Load Tap Changer (LTC) Maintenance

For units with LTCs, the LTC is a key component and, without proper maintenance, can be a leading cause of failure. GE Energy can evaluate the condition of your LTC by sampling oil from the energized transformer. Test results indicate what type of maintenance needs to be performed offline, minimizing down-time. Our services include:

- Complete internal inspection and contact or interrupter replacement
- Maintenance to original equipment manufacturer (OEM) specifications
- Rebuild and repair
- Validation of alarms and protective devices
- Upgrade obsolete electro-mechanical controls with modern solid state controls
- Long-term maintenance programs to maximize the reliability of your LTC



# Services and Spare Parts

## Transformer Substation Services

### Consulting Services

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Through our consulting services, you can take advantage of GE Energy's expertise developed over 100 years of servicing transformers. We can help you with system analysis, modifications, diagnostic trouble shooting, and more.

### The GE Advantage

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Transformer Substation Services from GE Energy offer significant advantages over other service providers, including:

**Experience.** Most of our project managers and field technicians have at least 10-15 years experience.

**Technology.** We offer fluid processing services using leading edge Fluidex reactivation technology, which provides a fresh charge of Fuller's earth for each oil treatment and eliminates the need to landfill oil-soaked clay.

**Single Source.** In addition to substation services, GE Energy offers transformer repair and complete remanufacturing through our nationwide service center network.

**Six Sigma Processes.** Our adherence to carefully developed operating procedures and commitment to continuous improvement helps us deliver high-quality, reliable services on schedule and on budget.

For more information, please contact your GE Energy representative.



# Services and Spare Parts

## Switchgear Services

### Single Source Solution Provider

As the first line of productivity protection, switchgear protects the power delivery system and all downstream equipment. By providing comprehensive solutions for all of your switchgear needs, GE Energy helps you improve asset management, reduce management costs, and extend the equipment life cycle.

### Improved Switchgear Reliability

Circuit breakers are fairly complicated electromechanical devices that can fail several ways. If a failure occurs—or nuisance tripping persists—root cause analysis of the failure and selection of the best solution is required to prevent recurrence. Along with our worldwide experience base, GE has a complete range of diagnostic tools and the expertise to provide a lasting solution that matches your needs. As the first step to preventing recurrence, GE switchgear specialists provide a detailed diagnosis as part of any repair/upgrade service on failed equipment.

### Maintenance Programs

Many failures can be avoided with maintenance programs designed by GE for your particular applications. Greater reliability for low, medium, and high voltage substations starts with maintenance tailored to your equipment. Environment, duty cycles, and circuit priority are analyzed to determine what maintenance activity is right for you.



Delivering powerful solutions through Six Sigma Quality

### Modification Advantages

GE Energy can help you take the guesswork out of the “buy new/modify existing” dilemma—by showing you how revitalizing your existing equipment can have compelling advantages over buying new. For example, existing air-magnetic or oil medium voltage circuit breakers can be rebuilt, replaced or retrofitted to vacuum or SF6 interruption technology.

### Switchgear Service Solutions

- Retrofit, refurbishment, and upgrade
- Preventative maintenance and inspections
- Repair “in kind”
- Emergency service

### Benefits

- Equipment life extension
- Reduced maintenance costs
- Reduced risk of unscheduled outages
- Increased predictability
- Improved reliability
- System coordination

### Services Provided

- Power management systems retrofits
- Retrofit old LV trip units to state-of-the-art trip units
- Limitamp motor starter vacuum conversions
- HV, MV and LV substations maintenance/upgrades/modifications
- Circuit breakers repair/retrofit/refurbishment/ conversion/ replacement/retro fill — all types/manufacturers/voltage classes
- Ground fault testing and certification
- High current testing
- Loaner circuit breakers
- Long-term agreements
- Unit exchange/upgrade programs
- On-site or in-shop capabilities
- Trip curve certification
- Switchboard/control modifications
- Designated 1E Nuclear Certified services
- Diagnostic testing and evaluation
- Total on-site substation maintenance
- Infrared and ultrasonic scanning capabilities



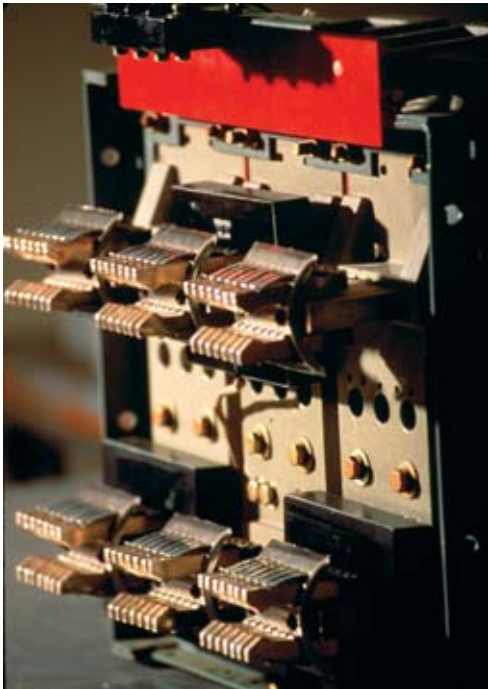
# Services and Spare Parts

## Switchgear Services

### About Energy Services

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- 40 service locations in USA and Canada
- Service on GE and multi-OEM equipment
- OEM technology/mods/parts/engineering
- Experienced technical support
- GE certified Six Sigma Quality craftsmanship
- Dedicated training facility
- ANSI®/IEEE® compliance
- Total substation maintenance
- On-site or in-service-center repair
- Service center network
- Around-the-clock emergency service



Providing prompt solutions today, tomorrow,  
and years to come

For more information, contact your local GE sales representative  
or visit us online at [ge.com/energy](http://ge.com/energy).

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# Services and Spare Parts

## Drive Services

### Overview

Drive services from GE Energy help you reduce maintenance costs and maximize uptime and productivity for your critical operations. GE Energy is the value source for complete service solutions for your GE drive and control systems. Our experienced technicians, product knowledge, access to factory drawings and procedures, and GE engineering support enable us to provide prompt, comprehensive service unmatched in the industry. Our drive and control offerings include repair and return, remanufacturing services, and an inventory of remanufactured units available for sale.

### Repair & Return

Our repair and return service on AC/DC drives includes cleaning, testing, repairing or replacement of any defective components and a system load test. Includes 18-month limited warranty on the entire drive.

### Remanufacturing Services

Complete remanufacturing of your failed drive is the most cost effective repair option available, minimizing risk of failure when the drive is re-installed. Our rebuild service on AC/DC drives includes complete disassembly, cleaning, repainting, replacement for ribbon cables and wire harness assemblies, SCR and fuse replacement, proactive replacement of high-risk components and a complete system load test. An 18-month limited warranty on the entire drive is also included.

### Remanufactured Drives Available

When you need to purchase a replacement drive control system, consider a cost-effective remanufactured unit from GE Energy. Our remanufactured drives are completely rebuilt and reconditioned units which meet factory standards and carry a limited 18-month warranty. No exchange unit is required.

### The GE Advantage

Trust your GE drive and control systems to the original manufacturer for top-quality, reliable service.

- 18-month limited warranty on entire drive
- Repairs based on the original factory designs
- Automatic replacement of components with high failure rate, regardless of condition
- GE engineering support
- Factory-developed testing procedures and fixtures
- Diagnostic test equipment certified to national standards
- Automated test equipment ensures consistent, high-quality service
- On-site installation and start-up services available



# Services and Spare Parts

## Drive Services

Features & Benefits	Repair & Return	Remanufacturing Services	Remanufactured Units
<b>Warranty</b>			
Limited 18-Month Warranty – Entire Drive	•	•	•
<b>Delivery</b>			
Immediate Shipment (Based on Availability)			•
10-Day Cycle Emergency Services Available	•		
20-Day Cycle Emergency Services Available		•	
<b>Proactive Replacement of Parts</b>			
Glass-Bead Diodes, Electrolytic Capacitors	•	•	•
Cabling/Wire Harness		•	•
SCRs, Fuses		•	•
<b>Complete Disassembly, Cleaning, Repainting</b>		•	•
<b>Flat Rate Pricing, Including Parts and Labor</b>	•	•	•
<b>Testing with Factory Approved Procedures</b>	•	•	•

To learn more about this offering, contact your GE Energy sales representative or visit [gepower.com](http://gepower.com)



# Services and Spare Parts

## Start-up & Commissioning Services

### Overview

GE Energy's Start-up & Commissioning Services provide the people and knowledge to complete the job right and on schedule.

Proper start-up and commissioning of power distribution and control equipment is vital to the long-term health of an electrical system. Improper installation and commissioning are the leading causes of premature failures. With GE Energy's Start-up & Commissioning Services, you can be assured that your equipment has been installed properly and meets the factory standards for operation. Why trust your equipment with anyone other than GE?

### Features and Benefits

#### Proven Experience

- Minimized early-term failures and lower total cost of ownership
- As the original equipment manufacturer, GE is uniquely positioned to address any concerns or issues that arise
- GE Energy's service engineers have "hands on" experience with commissioned equipment, as well as access to GE and TM GE design engineers at the manufacturing facility

#### Six Sigma Quality

- Start-up personnel use standard practices, developed through Six Sigma processes, to ensure consistent quality across all product lines
- Test procedures performed according to factory specifications ensure optimal equipment performance, across all designed operating ranges
- Comprehensive, accurate testing, analysis and troubleshooting via innovative test equipment

#### Simple, Convenient Interface

- Single-source provider for start-up and commissioning of GE equipment

#### EHS Commitment

- GE's commitment to Environmental Health & Safety is proven by the outstanding safety performance of our field service organization



### Single-Source Provider for the Start-Up and Commissioning of Your GE Equipment

GE Energy's Start-up & Commissioning Services include a series of checks and tests performed on new equipment to ensure proper installation and functionality. The specific tasks vary by product line to ensure that all equipment conforms to GE and TM GE factory standards. Optional services can include verifying interaction with auxiliary systems prior to energization.

GE Energy can provide quality products, strong project management capabilities, broad service offerings and a history of recognized success in power, automation, and drives and control systems.



# Services and Spare Parts

## Start-up & Commissioning Services

### Equipment Serviced

#### Power Delivery\*

- Transformers – Dry Type
- Transformers – Liquid Filled
- Medium Voltage Switches
- Medium Voltage Vacuum Circuit Breakers
- Medium Voltage Starters
- Switchgear
- Low Voltage Circuit Breakers
- Switchboards
- Automatic Transfer Switches
- Relays and Meters
- Motor Control Centers

#### Drives and Controls

- DC 2000
- Innovation Series™ Drive Systems
- Dura-Bilt 5i MV
- TDrive-10™
- TDrive-70™
- TDrive-DC™
- AF-300™
- AV/DV-300™

### Local Presence Backed by the Power of a Global GE Organization

With over 1,300 service engineers and technicians globally, GE is uniquely positioned to provide you with the knowledge, experience, and skills for the full range of your industrial service needs.

From system design to maintenance and outage support, GE has the resources and capabilities to assure that you are maximizing your equipment's performance and reliability.



For more information, please visit [www.gepower.com](http://www.gepower.com) or call us at 1-888-GE4-Serv or 540-378-3280.

\* An additional 12 months of standard warranty is provided free of charge, when GE provides start-up & commissioning of GE power delivery equipment.  
Innovation Series is a trademark of General Electric Company, USA TDrive-10 is a trademark of TMEIC Corporation. TDrive-70 is a trademark of TMEIC Corporation. TDrive-DC is a trademark of TMEIC Corporation. AF-300 is a trademark of GE Fuji Drives USA, Inc. AV-300 and DV-300 are trademarks of General Electric Company, USA.



# Services and Spare Parts Power Systems Studies

## Overview

A well-designed power system is the backbone of all industrial and utility facilities. A GE power system study provides customers with the information necessary to upgrade and maintain their power delivery infrastructure. The results focus on reducing operating costs, improving efficiency, increasing reliability and improving system maintainability. Our engineering experts specialize in:

- Utility
- Oil & Gas
- Automotive
- Chemical
- Metals
- Cement
- Pulp & Paper
- Commercial

## Industry Expertise

Power systems engineering is one of the oldest and most fundamental services provided by GE. Our power system engineers have unprecedented expertise gained from over 100 years of working with a wide range of customers and utilizing pioneering techniques.

GE engineers have direct access to GE product design teams who maintain expertise in the intricate details of power system equipment.

## Delivering Value

- Increase operating reliability
- Evaluate impact of adding new equipment
- Reduce operating costs
- Optimize system upgrades
- Identify source of failures

## Systems Studies Offered

### Short Circuit Study

Your country's electric code may require that all short circuit interrupting devices have capabilities beyond the ratings imposed by the power system. GE Energy's short circuit study can provide information to help determine if the interrupting capacities of the power system's components provide adequate protection. The short circuit study calculates the short circuit capacity at designated locations within the power delivery infrastructure. This data may also be utilized to select equipment ratings and may serve as the basis for a protective device coordination study and an arc-flash hazard analysis.

### Load Flow and Power Factor Study

Utilizing proven mathematical models, GE's load flow study determines how the electrical system will perform during normal and emergency operating conditions, providing the information needed to:

- Optimize circuit usage
- Develop practical voltage profiles
- Minimize kW and kVar losses
- Develop equipment specification guidelines
- Identify transformer tap settings

Additionally, the power factor study calculates the reactive load compensation required to achieve and sustain a given reactive voltage level and to maintain a specific power factor.

Consider GE's load flow study for the following:

- Facilitating conceptual design
- Identifying corrective actions when components are overloaded or voltage performance is inadequate
- Determining the power factor correction to increase system capacity and lower utility bills
- Determining the operational impact of potential contingencies



# Services and Spare Parts

## Power Systems Studies

### Arc-Flash Hazard Analysis

GE's comprehensive arc-flash hazard analysis is designed to help ensure employee safety against dangers associated with the release of energy caused by an electrical arc. Key elements of an arc-flash hazard analysis are:

- Determining the required level of personal protective equipment (PPE)
- Communicating PPE and safe approach distances to exposed energized equipment through an effective warning label system

### Protective Device Coordination Study

You can help ensure ongoing, reliable operation during a fault by periodically evaluating the protective devices in your power system. The goal of a protective device coordination study is to assure the system is capable of clearing a fault in the minimum amount of time possible, while minimizing the impact to the power system. A protective device coordination study also may include recommendations for revisions of the types of protective devices for improved protection.

### Harmonic Analysis

Harmonic analysis has become more important due to the application of AC & DC adjustable speed drives, converters and other equipment that produce harmonic distortions. These non-linear loads generate harmonic currents that interact with system impedances. These interactions may result in equipment malfunction and/or damage to the power system.

A GE harmonic study analyzes the system and recommends corrective measures, which include the design of filters or traps to absorb harmonic currents generated by non-linear loads.

### Conceptual Design Study

The purpose of a conceptual design study is to develop a roadmap for building and maintaining an optimum power system that serves present and future plant operating needs. Conceptual design studies often include a comprehensive review of the existing system with a clear understanding of future requirements.

A key component of a conceptual design study is the ability of the engineer to understand existing conditions, future needs and equipment and system capabilities. A combination of load flow, motor starting, short circuit, protective device coordination and stability study techniques will be employed to complete the design study.

### Motor Starting Study

The motor starting study analyzes the motor, the motor load and the connected power system through the range of operation. Recommendations on motor starting methods are provided.

### Impact Load Study

An impact load study can model the system to determine whether the impact load may be added to the existing system without causing detrimental operating effects due to voltage and frequency fluctuations.

### Power System Automation Study

As an extension of a conceptual design, protective device coordination, and load and power factor studies, the power system automation study focuses on developing solutions to operating issues in existing or planned power systems. It recommends electronic and control technologies that provide productivity enhancing solutions.

### Diagnostic Study

A diagnostic study provides an engineering review to determine the root cause of power system failure. The power systems studies GE Energy offers are tailored to meet the needs of the individual facility and customer. Each study involves the collection of data and information. GE employs the most advanced tools, processes and procedures to obtain information. The end result is a formal, comprehensive report outlining study findings and recommended actions.

For more information, contact your local GE Energy office or call 1-888-GE4-Serv or 540-378-3280.

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# Services and Spare Parts Arc-Flash Hazard Study

## Addressing NFPA 70E, Standard for Electrical Safety in the Workplace

### Helping Secure Employee Safety

GE's comprehensive arc-flash hazard study, designed to assist in addressing the recommendations of the National Fire Protection Association's (NFPA) Standard 70E, helps ensure employee safety against dangers associated with the release of energy caused by an electrical arc. Key elements of an arc-flash hazard safety program are:

- Calculating the NFPA-based level of personal protective equipment (PPE)
- Communicating PPE and approach distance from a prospective arc source through a warning label system

### Mitigating Arc-Flash Hazard Risk

In addition to risking employee safety, failure to address NFPA 70E can lead to significant financial loss through extended litigation, increased insurance costs and regulatory fines. OSHA has cited several companies under the General Duty Clause.

You can help mitigate this risk with a comprehensive arc-flash hazard study by GE Energy.

### Equipped with Experience

With over 100 years experience in analyzing power systems, GE has plant knowledge that supports the detection of arc-flash hazards throughout your systems. GE employs only proven data collection methods, detailed calculations and thorough software-based analysis to identify the calculated incident energy and NFPA-based PPE for each potential hazard.

Excessive PPE can itself be a safety hazard. To help calculate the precise NFPA-based PPE category, GE recommends concurrently conducting short circuit and protective device coordination studies. This approach enables a more comprehensive analysis than using the existing protective device settings and short circuit data. Using a single source experienced in performing all three studies helps to ensure consistency in results, identify compound hazards and limit duplication.

### Detailed Labeling

Constructing detailed and durable warning labels is critical to fulfilling the National Electrical Code's requirement for field marking potential arc-flash hazards. GE's robust labels include both the arc-flash hazard and shock hazard boundaries as well as the appropriate combined level of PPE.



Arc-Flash Hazard Analysis employs industry standard practices:

- Electric Arc Hazard Exposure (OSHA 29 CFR 1910.269)
- Flash and Shock Hazard Analysis [NFPA 70E-2009, 110.8(B)(1)]
- Personal Protective Clothing and Equipment for Arc-Flash Hazards [NFPA 70E-2009, 130.3(B); Table 130.7(C)(11)]
- Prescribed Equations for Incident Energy and Arc-Flash Boundary Calculations (IEEE Std. 1584-2002: and 1584a-2004)
- Field Marking of Arc-Flash Hazards [NFPA 70-2008, 110.16; NFPA 70E-2009, 130.3(C)]
- Work Permits to Work on Energized Parts [NFPA 70E-2009, 110.8(B)(2)]

### Benefits Include:

- Improves employee safety against electrical arcs
- Calculates incident energy levels and IEEE-based flash protection boundary
- Addresses arc-flash issues within NFPA 70E
- Provides required field marking through detailed warning labels to communicate:
  - NFPA-based PPE class
  - IEEE-based safe approach distances

### Achieving Results

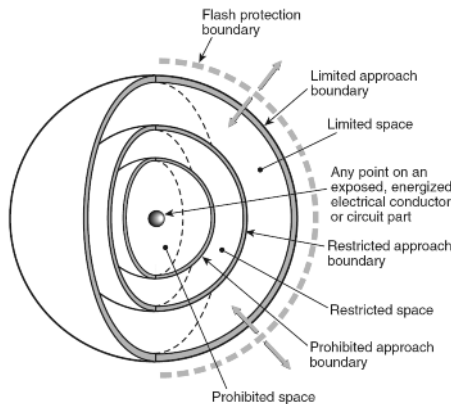
Results of GE's arc-flash hazard study provide the calculated IEEE-based incident energy and arc-flash protection boundary with the corresponding NFPA-based PPE class for each system location. Warning labels and work permits can be created using these results. The various safe approach boundaries are described in NFPA 70E<sup>2</sup>:



# Services and Spare Parts Arc-Flash Hazard Study

## Flash Protection Boundary

An approach limit, at a distance from an exposed live part, within which a person could receive a second-degree burn if an electrical arc-flash were to occur.



## Shock Protection Boundaries:

### Limited Approach Boundary

An approach limit at a distance from an exposed live part within which a shock hazard exists.

### Restricted Approach Boundary

An approach limit at a distance from an exposed live part within which there is an increased risk of shock, due to electrical arc over combined with inadvertent movement, for personnel working in close proximity to the live part.

### Prohibited Approach Boundary

An approach limit at a distance from an exposed live part within which work is considered the same as making contact with the live part.

## Required Clothing Class

In accordance with NFPA 70E guidelines, the calculated incident energy provided by GE's arc-flash hazard study, will identify the appropriate PPE class for each system location, through the use of the following NFPA 70E table.

From NFPA 70E 2009 Edition

TABLE 130.7(C)(11) Protective Clothing Characteristics

Hazard/Risk Category	Clothing Description	Required Min Arc Rating of PPE [J/cm <sup>2</sup> (cal/cm <sup>2</sup> )]
0	Nonmelting, flammable materials (i.e., untreated cotton, wool, rayon, or silk, or blends of these materials) with a fabric weight at least 4.5 oz/yd <sup>2</sup>	N/A
1	Arc-rated FR shirt and FR pants or FR coverall	16.74 (4)
2	Arc-rated FR shirt and FR pants or FR coverall	33.47 (8)
3	Arc-rated FR shirt and pants or FR coverall, and arc flash suit selected so that the system arc rating meets the required minimum	104.6 (25)
4	Arc-rated FR shirt and pants or FR coverall, and arc flash suit selected so that the system arc rating meets the required minimum	167.36 (40)

Note: Arc rating is defined in Article 100 and can be either ATPV or E<sub>BT</sub>. ATPV is defined in ASTM F 1959, *Standard Test Method for Determining the Arc Thermal Performance Value of Materials for Clothing*, as the incident energy on a material or a multilayer system of materials that results in a 50% probability that sufficient heat transfer through the tested specimen is predicted to cause the onset of a second-degree skin burn injury based on the Stoll curve, cal/cm<sup>2</sup>. E<sub>BT</sub> is defined in ASTM F 1959 as the incident energy on a material or material system that results in a 50% probability of breakdown. Arc rating is reported as either ATPV or E<sub>BT</sub>, whichever is the lower value.



NEC Handbook Exhibit 110.7  
Electrical worker clothed in personal protective equipment (PPE) appropriate for the hazard involved<sup>1</sup>.

## Accurate Results

For consistency of results, limited duplication and lower overall PPE recommendations, GE recommends that the short-circuit and coordination studies be completed concurrently with the arc-flash hazard study:

- Short Circuit Study – Calculates three-phase bolted faults
- Protective Device Coordination Study – Uses equipment settings to determine devices' opening times

For more information, contact your local GE Energy office or call 1-888-GE4-Serv or 540-378-3280.

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# Services and Spare Parts Customer Training

## Drives and Controls

### AC/DC2000 Drive Hardware

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**Recommended Duration:** 3 Days

This course is designed for maintenance personnel who configure and maintain the AC/DC2000 drive. Topics include drive application, drive power components, circuit cards and their descriptive operation, elementaries, SCR, IGBT and related information. The keypad operation will be covered extensively as a means of troubleshooting and interrogating the drive. The Control System Toolbox software is not necessary in this course and will not be taught.

**Prerequisite:** Electrical experience/education

### AF-300E™, AF-300 G11™ and AF-300 P11™

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**Recommended Duration:** 2 Days

This course is for original equipment manufacturers and end users who need to implement basic drive configuration and the drive start-up procedures. Topics include keypad programming, hardware overview, applications, startup and troubleshooting.

**Prerequisite:** None

### AC/DC2000 Drive Software Tools

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**Recommended Duration:** 4 1/2 Days

This course is designed for maintenance and engineering personnel to understand how to use the features of the Control System Toolbox running under the Windows system, which applies to the AC/DC2000 drive in order to operate, maintain and troubleshoot the drive. Topics include AC/DC2000 overview, AC/DC2000 hardware, terminology, block diagram, I/O programming, serial monitor commands, trending and circular lists.

**Prerequisite:** Electrical experience/education and familiarity with Windows™

### AV-300™, AV-300i™ and DV-300™ Drives

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**Recommended Duration:** 4 Days

This course is designed for engineering and maintenance personnel who configure, setup, install and maintain the AV and DV drive. Topics include motor theory, drive power components, configuration and keypad operation. The drive software to set up, tune and maintain the drive will also be presented.

**Prerequisite:** Electrical experience/education and familiarity with Windows™

### DC-300™ Adjustable Speed Drive

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**Recommended Duration:** 3 1/2 Days This course is designed for engineering and maintenance personnel who install, tune-up, maintain and troubleshoot the DC-300 Drive. Topics include DC motor theory, drive power components, keypad operation, interface signals, feedback calibration, tune-up and troubleshooting. Assignments include component identification, operation, calibration and tune-up.

**Prerequisite:** Electrical experience/education

### DC Innovation Series Drive

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**Recommended Duration:** 3 1/2 Days

This course is designed for maintenance personnel who configure, maintain and troubleshoot the DC Innovation drives. Topics include retrofit modifications, I/O configuration, signal interface, drive circuit cards and their descriptive operation. The keypad operation will be covered as a means of troubleshooting and interrogating the drive. The Control System Toolbox software will also be covered.

**Prerequisite:** Electrical experience/education and familiarity with Windows™

### Dura-Bilt 5i MV™ Drive

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**Recommended Duration:** 3 1/2 Days

This course is designed for engineering and maintenance personnel who configure, set up, install and maintain the Dura-Bilt 5i medium voltage drive. Topics include AC motor theory, power components, configuration and keypad operation. The Control System Toolbox software will be used to set up and maintain the drive. Assignments include hardware identification, programming I/O and working with the regulator patterns.

**Prerequisite:** Electrical experience/education and familiarity with Windows™

### Innovation Series™ Controller

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**Recommended Duration:** 4 1/2 Days

This course is for engineering and maintenance personnel who are responsible for configuring, maintaining or troubleshooting a system that includes the Innovation Series Controller with or without the operator's console. Through a series of lectures the student will learn to use the many functions and features of the controller, including software changes, I/O modifications using Genius® blocks, trending, diagnostics and troubleshooting techniques using the Control System Toolbox. The student will feel confident in using these tools for monitoring and diagnosing of a system. Choose this course to learn the basics of the Innovation Series Controller (UC2000).

**Prerequisite:** Electrical experience/education and familiarity with Windows™



# Services and Spare Parts Customer Training

## Drives and Controls

### Innovation Series Low Voltage Drive

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**Recommended Duration:** 3 1/2 Days

This course is designed for engineering and maintenance personnel who configure, set up, install and maintain the low voltage AC drive. Topics include AC motor theory, drive power components configuration and keypad operation. The Control System Toolbox software used to set up, tune and maintain the drive will also be presented. Laboratory assignments include hardware identification, programming I/O, startup wizards and changing the regulator patterns via keypad and Control System Toolbox.

**Prerequisite:** Electrical experience/education and familiarity with Windows™

### Innovation Series Low Voltage Drive System

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**Recommended Duration:** 4 1/2 days

This is a system level course for engineering and maintenance personnel who are responsible for configuring, maintaining or troubleshooting a system that includes the Innovation Series Controller and Low Voltage Innovation drives. This is a practical “how to” course on the essentials developed for Innovation Series Drive Systems.

**Prerequisite:** Electrical experience/education and familiarity with Windows™

### Innovation Series Medium Voltage Drive Type GP

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**Recommended Duration:** 3 Days

This course is designed for engineering and maintenance personnel who configure, set up, install and maintain the AC drive. Topics include AC motor theory, drive power components (IGBT), configuration and keypad operation. The Control System Toolbox software will be used to set up, tune and maintain the drive. Assignments will include hardware identification, programming I/O, start-up wizards (fiber-optic, cell test, etc.) and changing the regulator patterns via the keypad and Control System Toolbox.

**Prerequisite:** Electrical experience/education and familiarity with Windows™

### Innovation Series Medium Voltage Drive Type SP

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**Recommended Duration:** 4 Days

The course is designed for engineering and maintenance personnel who configure, set up, install, and maintain AC drives. Assignments will include hardware identification, programming I/O, startup wizards (fiber-optic, cell test, etc.) and changing the regulator patterns via Keypad and Control System Toolbox. At the completion of this course, students will be familiar with the following: Hardware Configuration of the Drive (VME Rack with circuit cards), Liquid Cooling Operation, Source and Inverter Bridges (Power Conversion Theory), DDI (Keypad), Bus Charging Sequence, Fault Retrieval and Diagnostic, Maintenance and Troubleshooting, Control System Toolbox, Utilizing the Drives Pattern, including: a. Trend Recorder (Real Time Trending); b. Capture Buffer (Background Trending).

**Prerequisite:** Electrical experience/education and familiarity with Windows™

### LCI Drives (Innovation Series) for Fan, Pump and Compressor Applications

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**Recommended Duration:** 3 Days

This course is designed for engineering and maintenance personnel who configure, set up, install and maintain the LCI drive. Topics include synchronous AC motor theory, drive power components (SCR, line filters and snubbers) and the water-cooled system. The AFE Datapanel/90-30 and/or VersaMax® configuration will be used and Innovation Series controller interfacing components will be discussed. The HyperTerminal® monitor mode to set up, tune and maintain the drive will also be presented. Assignments include hardware identification, programming DACs and circular list.

**Prerequisite:** Electrical experience/education and familiarity with Windows™

### LCI Second Generation (pre-1997: has door-mounted printer)

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**Recommended Duration:** 3 Days

This course is designed for engineering and maintenance personnel who configure, set up, install and maintain the LCI drive. Topics include synchronous AC motor theory, drive power components (SCR, line filters and snubbers), the water-cooled system and door-mounted printer operation. The monitor modes to set up, tune and maintain the drive will also be presented. Assignments include hardware identification, programming DACs and circular list.

**Prerequisite:** Electrical experience/education



# Services and Spare Parts Customer Training

## Drives and Controls

### LEOPACK™-DC Drive

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**Recommended Duration:** 4 Days

This course is designed for engineering and maintenance personnel who configure, set up, install and maintain the LEOPAK - Wi. Assignments include hardware identification, programming I/O and working with the regulator patterns. At the completion of this course, students will be familiar with the following: Power Conversion Theory, DC Motor Theory, Keypad Operation, Reading Elementary Diagrams (Toshiba Format), Drive Hardware Overview, Toshiba WW Tool –1. Communications; 2. Up/Dnloading Files; 3. Assigning D/A Ports; 4. Trace Back Feature; 5. Regulator Diagrams; 6. Tune-up of Drive.

**Prerequisite:** Electrical experience/education and familiarity with Windows™

### Programmable Controls Series 90-70 and 90-30

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**Recommended Duration:** 4 1/2 Days

This course is for engineers and electricians responsible for maintaining Series 90-70 and/or Series 90-30 controls. Topics include 90-70 and 90-30 hardware overview, comparisons between 90-70 and 90-30, ladder logic programming, troubleshooting and diagnostics.

**Prerequisite:** Familiarity with relay logic

### TM Drive-10

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**Recommended Duration:** 4 Days

This course is designed for engineering and maintenance personnel who configure, and maintain the Toshiba 250 Wi, TM-P10 source and inverter. Assignments include hardware identification, programming I/O and working with the regulator patterns using the Control System Toolbox. At the completion of this course, students will be familiar with the following: Power Conversion Theory, AC Induction Motor Theory, Elementary Diagram Reading, Use of the GE Control System Tool Box - 1. Identifying and correcting faults; 2. Working with the pattern; 3. Utilizing the Trend Recorder Functions - a. Real-time Recording; b. Triggered Real-time Recording; c. Capture Buffer; d. Keypad Functions

**Prerequisite:** Electrical experience/education and familiarity with Windows™

### TM-DC™ Drive

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**Recommended Duration:** 4 Days

This course is designed for engineering and maintenance personnel who configure setup, install and maintain the TM-DC™ drives. Assignments include, hardware identification, diagnostics and parameter review, programming I/O, tune up and working with the regulator patterns through the Control System Toolbox.

**Prerequisite:** Electrical experience/education and familiarity with Windows™

### Motors, Power Converters and Drives

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**Recommended Duration:** 4 1/2 Days

This course is designed for engineers and technicians responsible for drive systems. It includes detailed operational information on standard AC and DC motors, semiconductor operation (diodes, SCRs, GTOs, IGCTs, IGBTs, and IEGTs), applications, dc converters and PWM/SCR/GTO inverters. The course includes an introduction to the principles of operation and the laws of physics that apply to fans, pumps and compressors.

**Prerequisite:** None



# Services and Spare Parts Customer Training

## Power Equipment and Power Management

### Industrial Power Systems Engineering and Device Coordination

**Recommended Duration:** 4 1/2 Days

This course is designed for electrical engineers responsible for industrial or commercial power systems planning, designs for reliability and overall system performance. Course includes short-circuit currents, over-voltages, power systems planning, protective relaying, voltage control, equipment and system grounding, power factor improvement, switchgear selection, protective device coordination and workshop exercises.

**Prerequisite:** Electrical engineering experience/education recommended

### Low Voltage Switchgear, AKD 5, 6, 8 and 10

**Recommended Duration:** 4 Days

This course is designed for personnel responsible for maintenance, testing and troubleshooting power circuit breakers, protective relays, breaker trip devices and switchgear panels. Topics include switchgear construction, switchgear diagrams, trip devices, low voltage power circuit breakers, testing, and maintenance.

**Prerequisite:** None

### Medium Voltage Circuit Breakers and Contactors

**Recommended Duration:** 4 1/2 Days

This course is designed for personnel responsible for maintenance, testing and troubleshooting power circuit breakers, contactors, protective relays, trip devices and switchgear panels. Primary equipment covered are Power-Vac breakers, Magne-Blast breakers and Limitamp contactors including both air and vacuum type contactors. Lecture topics include switchgear diagrams, breaker control, switchgear enclosures, protective relays, testing, maintenance and operation of medium voltage induction and synchronous motor starters.

**Prerequisite:** None

### Power Transformers

**Recommended Duration:** 2 Days

Detailed course on transformer maintenance and testing. Topics include transformer theory, insulating liquid testing, accessories, transformer types, transformer filling, maintenance and testing, types of insulating liquids, oil preservation systems.

**Prerequisite:** None

### Power Transformers, Power Converters and System Harmonics

**Recommended Duration:** 4 Days

This course is designed for engineers and technicians responsible for overall power system performance. Transformer topics include theory, types, accessories, maintenance and testing. Semiconductor topics include operation and application of diodes, SCRs, GTOs, IGCTs, IGBTs, and IEGTs, half and full wave rectifiers, dc converters and PWM/SCR/GTO inverters. A review of electrical system components that generate harmonics leads into other harmonic topics such as the effect of harmonics on system components, recommendations for reducing system harmonics, harmonic analysis tools, harmonic measurements and an introduction to harmonic filters.

**Prerequisite:** None

### Motor Controller Maintenance and Troubleshooting

**Recommended Duration:** 4 1/2 Days

This course is designed for personnel involved in the operation and maintenance of motors and motor control circuitry. It covers detailed information on operation of standard AC and DC motors. Topics include controls fundamentals, development of circuits, control components, maintenance and motor control circuit diagrams.

**Prerequisite:** None

### Limitamp® Motor Starters

**Recommended Duration:** 3 Days

The course covers basic operation, maintenance and troubleshooting of medium voltage induction and synchronous motor starters. Topics include air and vacuum contactors, and full reduced voltage motor starters.

**Prerequisite:** None

### Closed Loop Regulator Theory

**Recommended Duration:** 3 Days

This course is designed for personnel involved in designing or troubleshooting closed loop regulating systems. Topics include transfer functions, control block diagrams, regulator control strategy and PID regulators. Drive regulator control is discussed, including Volts/Hz and Flux Vector AC drive control. Bode stability analysis is used to calculate crossover frequency and compensation in many classroom exercises.

**Prerequisite:** Electrical engineering experience/education recommended



# Services and Spare Parts Customer Training

## Power Equipment and Power Management

### Medium Voltage Switchgear, Magne Blast™

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**Recommended Duration:** 3 Days

This is a practical maintenance and troubleshooting course which highlights the breaker, cubicle and its control circuitry. The course covers switchgear diagrams, protective relays, control and relay circuitry, switchgear enclosure, laboratory sessions and inspection-testing maintenance.

**Prerequisite:** None

### Medium Voltage Switchgear, Magne Blast and Power-Vac

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**Recommended Duration:** 4 Days

Maintenance and troubleshooting course for personnel who maintain 5 kV & 15 kV metal-clad switchgear. The course covers both Magne Blast and Power-vac circuit breakers, including their respective cubicles. Topics include switchgear diagrams, breaker control and relaying circuitry, switchgear enclosures, protective relays and maintenance.

**Prerequisite:** None

### Medium Voltage Switchgear, Power-Vac

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**Recommended Duration:** 3 Days

The class presents maintenance and troubleshooting procedures, cable terminations, control and relay circuitry, breaker mechanisms, switchgear enclosures, inspection-testing maintenance, switchgear diagrams, protective relaying, ML-17 and ML-18 mechanisms.

**Prerequisite:** None

### Power System Protective Relays

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**Recommended Duration:** 3 Days

This course is designed for new technicians, or is a good review for experienced engineers. It includes maintenance, troubleshooting and testing on protective relays. Topics include types and function of protective relays, power transformer and bus protective relays.

**Prerequisite:** None

### Control Maintenance and Troubleshooting

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**Recommended Duration:** 3 Days

Designed for personnel involved in the operation and maintenance of motor control circuitry. Topics include controls fundamentals, development of circuits, control components, troubleshooting with maintenance, and circuit diagrams.

**Prerequisite:** None

### Harmonic Analysis

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**Recommended Duration:** 2 Days

A review of electrical system components that generate harmonics. Effect of harmonics on system components. Recommendations for reducing system harmonics. Harmonic analysis tools and harmonic measurements. Introduction to harmonic filters.

**Prerequisite:** None

### Fans, Pumps, and Compressors

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**Recommended Duration:** 2 Days

An introduction to the principles of operation and the laws of physics that apply to fans, pumps and compressors. Maintenance and troubleshooting are focused on electrically driven machines.

**Prerequisite:** None

### Solid State Power Conversion

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**Recommended Duration:** 2 Days

This course is targeted for those needing a basic understanding of semi conductor devices and variable frequency power conversion. Topics include semiconductor operation (diodes, SCRs, GTO's, IGBT's) half and full wave rectifiers, DC converters, PWM/SCR/GTO inverters, IEEE duty classes, failure modes and fault protection.

**Prerequisite:** Electrical engineering/education recommended

### Substation Power Equipment

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**Recommended Duration:** 4 Days

This course is directed at new and experienced electricians. It features procedures for maintenance and testing of equipment found in a typical substation, such as lightning arresters, oil circuit breakers, fuses, protective relays and transformers.

**Prerequisite:** None

### Motor Maintenance

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**Recommended Duration:** 2 Days

This course provides practical, specialized information on inspection, testing, maintenance and troubleshooting of electric motors. Topics include fundamentals of motors, ac and dc machines, motor application, vibration, alignment, and bearings. Lecture Only.



# Services and Spare Parts

## Customer Training

### Electrical Safety

#### Electrical Safety and New NFPA 70E for Qualified Individuals

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**Recommended Duration:** 1 Day

Course content includes safety around electrical systems; effects of current on the body; PPE for working near energized equipment; additional PPE that is required for applying Lockout/Tagout (LOTO) to equipment that is to be de-energized; electrical power tool safety; static electricity; grounding and bonding; applying electrical safety grounds to de-energized electrical equipment. If purchased with a GE Arc Flash Hazard Study, this course will be customized for the customer to incorporate explanations of selected results of the study detailing issues found or to be addressed.

This course is for individuals who face the risk of electrical shock, electrocution, or arc flash if systems are not reduced to an electrically safe work condition. (This course meets the electrical section of OSHA requirements of 29 CFR 190.269, 29 CFR 1910.303, through 29 CFR 1910.333.)

**Prerequisite:** Standard Work Place Personal Protective Equipment Training and Lockout/Tagout Training recommended.

#### Fundamentals of NFPA 70E

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**Recommended Duration:** 1/2 Day

This course is for individuals who have responsibility for implementing, training, and enforcing the safety related work practices of the NFPA 70E Consensus Standard.

**Prerequisite:** None

#### Lockout/Tagout (LOTO)

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**Recommended Duration:** 1/2 Day

Designed for individuals who may be involved in Lockout/Tagout work as defined by 29 CFR 1910.147. This course reviews the steps necessary to prevent serious injury from the unexpected release or start-up of hazardous energy.

**Prerequisite:** None



# Services and Spare Parts Customer Training

## General Information

### Customized Training Programs

Our programs feature curricula tailored to each customer's particular requirements. These personalized programs provide world-class, site-specific training for owners and operators of electrical distribution & control equipment.

Course durations can vary depending on the needs of the individual customer. Class size is limited to ensure the highest level of quality instruction and to maximize individualization.

Courses are presented in a manner that is readily understood and can be applied to each student's particular job.

### At-Your-Site Training

- We offer a broad selection of electrical training courses for industrial, utility and commercial operations.
- Our courses are unique in that they are designed and taught by GE's training experts. Our instructors have vast experience installing and maintaining the types of electrical equipment and systems that are the subjects of these courses.
- As a student, you receive insightful, practical knowledge that you can readily relate to and apply.
- Site training is an economical approach since courses are held at the customer facility where living and transportation expenses can be reduced.
- Course offerings are structured to balance theory, hands-on application and engineering concepts for maintenance and operation personnel.
- Recording devices are not allowed. The contents of our classes are fully copyrighted and cannot be recorded or duplicated without our permission.

### Classroom Training

- Standard classroom training courses are also offered at any of our global training centers.

### Contact Us

- To learn more about this offering visit <http://www.ge-energy.com/training>, contact your local GE Energy office or call 1-888-GE4-SERV or 540-378-3280.



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# Services and Spare Parts

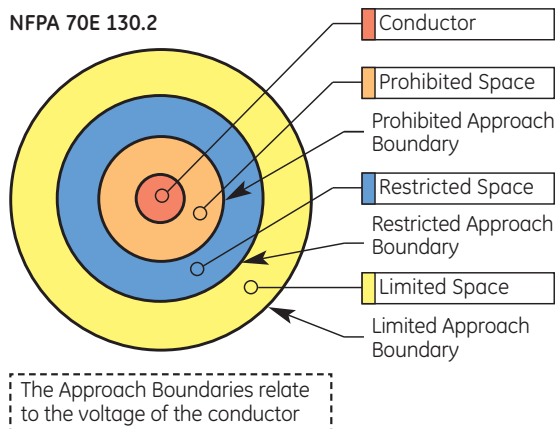
## Electrical Safety Training

### Overview

GE Energy's safety training team specializes in the development and delivery of world-class safety training programs with an emphasis on consistency, quality, and providing a practical learning experience for each student. Our professional safety instructors can help you realize these benefits by delivering safety training programs that provide insight and understanding into the risks inherent to electrical equipment and systems.

Courses focus on electrical safety requirements as identified by OSHA in the General Industry Standards; requirements of the NFPA 70E Consensus Standards; and the requirements of the General Industry Lockout/Tagout (LOTO) Standard. Training courses can be offered at the customer's site or at a GE Training Center. Electrical Safety & NFPA 70E for Qualified Individuals and LOTO require the student to achieve a passing score upon final examination. Certificates will be presented to students that successfully pass the course.

### Approach Boundaries – Shock Protection



### Applicability

These courses are applicable to a broad range of industries where employees will encounter electrical equipment energized at greater than 50 volts.



### Available Courses

#### Electrical Safety & NFPA 70E for Qualified Individuals

**Course Description:** Required for individuals who face the risk of electrical shock, electrocution, or arc flash if the electrical system is not reduced to an electrically safe work condition. This course meets the electrical section of OSHA requirements – 29 CFR 1910.269, 29 CFR 1910.303 through 29 CFR 1910.308, and 29 CFR 1910.333.

Course content includes: safety around electrical systems; affects of current on the body; Personal Protective Equipment (PPE) required for working near energized equipment; additional PPE that is required for applying LOTO to equipment that is to be de-energized; electrical power tool safety; grounding; bonding; static electricity and equipment potential hazards. (If purchased with a GE Arc Flash Hazard Study, this course will be customized to incorporate explanations of selected results detailing potential issues and recommendations.)

#### Objectives

- Explain the fundamentals of electrical accidents
- Define proper procedures for identifying energized equipment and working on de-energized electrical equipment safely
- Explain how to recognize electrical safety hazards
- Recognize defined appropriate safe distances to energized equipment
- Explain static electricity and how it develops
- Explanation of "Equipotential" and Step Potential
- Selection of test equipment for identifying energized equipment
- Understand the limitations of test equipment
- Selection of PPE for individuals at risk of an electrical arc or explosion
- Proper method for identifying and applying electrical safety grounds
- Apply inspection guidelines for PPE and test equipment
- Understand hazard risk categories and their application in a number of situations





# Services and Spare Parts

## Electrical Safety Training

**Length:** 8 Hours

**Recommended Prerequisites.** Prior knowledge of electrical equipment and systems, personal protective equipment and Lockout/Tagout training.

**Audience.** Any individual who will be working near energized equipment and has the need to determine the degree and extent of the hazard and the personal protective equipment to perform a given task safely. Note: This course should not be provided to those individuals who do not have knowledge of the construction and operation of electrical equipment or the ability to determine the degree and extent of the hazard and the personal protective equipment to perform a given task safely.

### Lockout/Tagout

This program is designed for workers who may be involved in Lockout/Tagout (LOTO) work as defined by the electrical section of OSHA requirements 29 CFR 1910.147. Lockout/Tagout training gives individuals the necessary steps to perform LOTO in the workplace. It is intended to give individuals the knowledge needed to prevent serious injury from the unexpected release or start-up of hazardous energy.

#### Objectives

- Explain the meaning of Lockout/Tagout
- Define the requirements of a LOTO program
- Outline employee LOTO responsibilities
- Identify different types of energy sources
- Describe the basic Lockout/Tagout six-step process
- Define the term "Zero Energy State"

**Length:** 4 Hours

**Recommended Prerequisites.** None.

**Audience.** Any individual who will be required to apply a lock, tag, or sign onto a LOTO system, or one who will be required to work on equipment, machinery, processes, or electric circuits.



### Fundamentals of NFPA 70E

This course provides information and guidance for individuals who will have responsibilities for implementing, training and enforcing the safety-related work practices of the NFPA 70E consensus standard.

#### Objectives

- Explain shock and arc flash hazard analysis
- Define requirements to train employees
- Outline employer and employee responsibilities
- Understand requirements for work/maintenance practices
- Explain procedures to select appropriate Personal Protective Equipment
- Define qualified individuals

**Length:** 4 Hours

**Recommended Prerequisites.** None

**Audience.** Environment, Health and Safety professionals, plant personnel, and those individuals who will be implementing NFPA 70E requirements at their facility.



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