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## GE WavePro Power Circuit Breakers

WavePro circuit breakers are the newest generation of GE low voltage power circuit breakers. WavePro builds on the experience of the AKR breaker line to bring new convenience and safety features while retaining the robustness of GE's long-standing power circuit breaker products. WavePro breakers are ANSI designed and carry the UL label. They are designed to withstand short circuit stresses equal to their short time interrupting ratings. This means that maximum selectivity with downstream devices can be attained because instantaneous trips are not required to achieve the breaker's short circuit rating. This attests to the ruggedness of the WavePro design and places it ahead of insulated case breakers and other maker's power circuit breakers in many critical applications. WavePro breakers can be applied on power systems from 208 to 600 volts and have current ratings of 800 through 5000 amperes. Short circuit interrupting ratings for WavePro breakers range from 30kA to 200kA rms symmetrical.

## Visit GE Consumer and Industrial website for ordering low voltage power circuit breakers and accessories at: www.geindustrial.com/industrialsystems/wizards/ peb_oem_am/home.htm

## Three Choices of Advanced, Sold-State Trip Units

For basic functionality, the Power+ trip unit gives you straightforward means of providing overload and short circuit protection on a WavePro circuit breaker. Tripping characteristics are easily adjusted by simple-to-use rotary switches. The trip unit is upgradeable to ground fault by simply inserting a ground fault rating plug. An optional target module allows for target monitoring and also functions as a trip unit health indicator. Enhanced MicroVersaTrip® Plus and MicroVersa PM trip units give you two ways to monitor and control the WavePro breaker with unprecedented ease. A simple keypad lets you program and display a variety of functions including tripping characteristics, remote communications, status information and protective relaying, and allows integration with GE POWER LEADER ${ }^{\oplus}$ Power Management Systems. The trip unit display also allows viewing of many standard metering parameters as well as pickup alarms, trip target indications and fault status information.

For more information on these products, order publications listed in Section 22.
AKR BREAKERS AND SUBSTRUCTURES ARE AVAILABLE FOR SPECIAL APPLICATIONS. CONTACT YOUR LOCAL GE SALES REPRESENTATIVE OR BURLINGTON CUSTOMER SERVICE FOR PRICE AND LEAD-TIME.

## Low Voltage Power and DC Circuit Breakers EntelliGuard ${ }^{\circledR}$ G Low Voltage Power Circuit Breaker

From 400 to 6400A, EntelliGuard ${ }^{\text {® }} \mathrm{G}$ low voltage power circuit breakers are designed to meet the stringent demands required in today's electrical distribution systems without compromising safety, reliability or system performance
EntelliGuard ${ }^{\oplus} \mathrm{G}$ will be available June 2008. Consult your local GE Field Sales Office for technical information and pricing.


There are three trip unit systems available for WavePro Low Voltage Power Circuit Breakers - Power+, and Enhanced MicroVersaTrip ${ }^{\circledR}$ Plus and MicroVersaTrip ${ }^{\oplus}$ PM. All three systems consist of the trip unit, the trip actuator, current sensors and rating plugs. The term "trip unit systems" applies to the combination of these four components, which form the circuit breaker solid-state tripping system.
The Power+ trip unit is the latest addition to the list of trip units available on GE low voltage power circuit breakers. It continues to use GE's proven technique of measuring true rms currents of both sinusoidal and harmonically distorted waveforms. The frequent sampling ( 48 times per cycle per phase) allows precise calculations of true rms current. The sampling rate allows waveform measurements up to the 11th harmonic. True rms sensing avoids potential under- or over-protection problems associated with peak-sensing tripping systems.


Enhanced MicroVersaTrip ${ }^{\oplus}$ Plus and MicroVersaTrip ${ }^{\oplus}$ PM trip units also measure true rms currents (and voltages for MicroVersaTrip ${ }^{\oplus}$ PM trip units). The higher sampling rate (64 times per cycle) allows waveform measurements up to the 31st harmonic to achieve accuracy of $99 \%$.
MicroVersaTrip ${ }^{\oplus}$ Plus and MicroVersaTrip ${ }^{\oplus}$ PM trip units contain a digital liquid crystal display with a five-button keypad for local setup and readout of trip settings. The trip units have a lithium battery for cold setup capability and viewing of targets without external power. The LCD and keypad also provide a three-phase ammeter and trip indicators.
The Enhanced MicroVersaTrip ${ }^{\oplus}$ (MVT) PM trip unit adds power management system capability, including advanced metering and protective relaying, to the basic functions of the MVT Plus. The MVT PM can be interfaced with either Modbus RTU or Ethernet TCP/IP compatible systems.
All trip units utilize a series of interchangeable rating plugs to establish the current rating of the breaker.

## Standard functions:

-Rating plug with test port
Protection
-Long-time, Instantaneous (Instantaneous may be omitted
$\quad$ when short-time is provided)
-Rating plug with test port
-Long-time, Instantaneous (Instantaneous may be omitted when short-time is provided)

The Power+ trip unit is identified by its plug-in modules and rotary switches. The optional "target module" provides LED targets for overload, short circuit and ground fault trips. View and Reset push buttons are also provided to monitor status, including a battery check LED. Standard 3 -volt lithium batteries, in the target module, power the indicating LEDs (batteries are not required for trip unit operation). The "rating plug module" serves the dual purpose of establishing the trip rating for the circuit breaker as well as providing ground fault protection when required. All pickup and delay settings are selected with detented rotary switches.

Standard functions:
-Rating plug with test port
Protection
-Long-time, Instantaneous (Instantaneous may be omitted when short-time is provided)

Optional functions:

## Protection

-Short-time protection, with selectable $\left.\right|^{2} t$
-Ground fault protection, with selectable $\Sigma^{2}$ t
-Defeatable ground fault (not UL)

## Target Module

-View and Reset buttons
-Battery check LED
-Longtime pickup/trip unit "health" LED
-LEDs for overload, short circuit, ground fault trips

## Status

-Trip target (trip type)
-Trip information (magnitude and phase)
-Trip operations counters
Metering display
-Phase current (selectable among phases)
Optional Functions:
-Short-time protection, with selectable $\mathrm{I}^{2} \mathrm{t}$

- Ground fault protection, with selectable $\mathrm{I}_{\mathrm{t}}$
-Defeatable ground fault (not UL)
-Switchable instantaneous/short-time and ground fault (not UL).
-Zone-selective interlock, for ground fault only or for both ground fault and short-time protection.

Additional functions available only with MicroVersaTrip ${ }^{\oplus}$ PM trip unit:
-Communication and metering (M-option)
-Communication, metering and protective relaying (PM-option)
Communication:
-Remote communication with POWER LEADER ${ }^{\circledR}$
Power Management Control System (PMCS) software

## Metering:

-Voltage (V), Energy (kWh/MWh/GWh)
-Real Power (kW/MW), Total Power (kVA/MVA)
-Demand Power (kW/MW), Peak demand power (kW/MW)
-Frequency (Hz)
Protective relaying:
-Undervoltage, Overvoltage
-Voltage unbalance, Current unbalance, Power reversal

## Low Voltage Power and DC Circuit Breakers WavePro Low Voltage Power Circuit Breakers

How to select and price WavePro low voltage power circuit breakers - One step at a time
This selection and pricing guide allows you to systematically arrive at the product number and list price for a WavePro OEM breaker. It also contains information you can use to specify applicable fuses, neutral current transformers and other associated devices (Tables A-1 to A-4 on pages 6-8 and 6-9 and Tables B-5 to B-12 on pages 6-21 and 6-22) and to select and order substructures and substructure accessories (Tables B-1 to B-4 on pages 6-17 to 6-21). The WavePro Breaker Application Guide (DET-167) contains additional information that will help you select options to specify for your particular application.
First, determine the appropriate WavePro breaker type from Table A-1 on page 6-8.
Using that information, follow the step-by-step instructions beginning on page 6-11 to select options and accessories. At the end of each step, transfer the resulting product number digit(s) and price component for your selection to the appropriate boxes in the Product Number Line and Price Column. Helpful Hint: Make a photocopy of the Product Number Line and Price Column (page 6-7) every time you follow this process so you can use the form again.
When you're done, you'll have a complete breaker product number and, after you add up the price components, a total list price. Note: To order, you must submit a complete 15 -digit breaker product number. If you reach a point where no further options or accessories are required, fill in each of the remaining product numbers digits with $X$ (indicating no option or accessory) before submitting
your order. Here's an example of the selection and pricing process based on a WavePro breaker with the following specifications:
Example is on pages 6-4 through 6-6. Breaker selection and pric-
ing starts on page 6-11. An alternative to developing the breaker product number and pricing manually is to generate the same information electronically via the web wizards at www.geindustrial.com/industrialsystems/wizards/peb_oem_am/home.htm

## Example

| Rated AC Voltage Nominal (Мах.) | Breaker Type | $\begin{aligned} & \text { Frame } \\ & \text { Size } \\ & \text { (amps) } \end{aligned}$ | Short Circuit Ratings RMS Symmetrical |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | kA |  |  |
|  |  |  | Short-Time Withstand | With Instantaneous Trip | Without Instantaneous Trip |
| $\begin{aligned} & 480 \\ & (508) \end{aligned}$ | WPS-08 | 800 | 30 | 30 | 30 |
|  | WPH-08 | 800 | 42 | 42 | 42 |
|  | WPX-08 | 800 | 65 | 65 | 65 |
|  | WPS-16 | 1600 | 50 | 50 | 50 |
|  | WPH-16 | 1600 | 65 | 65 | 65 |
|  | WPS-20 | 2000 | 65 | 65 | 65 |
|  | WPS-32 | 3200 | 65 | 65 | 65 |
|  | WPH-32 | 3200 | 85 | 85 | 85 |
|  | WPX-32 | 3200 | 100 | 100 | 100 |
|  | WPS-40 | 4000 | 85 | 85 | 85 |
|  | WPX-40 | 4000 | 100 | 100 | 100 |
|  | WPS-50 | 5000 | 85 | 85 | 85 |
|  | WPX-50 | 5000 | 100 | 100 | 100 |

Example


| Price Column | List Price <br> GO-128W |
| :---: | ---: |
| Step 1 | $\$ 12790.00$ |
| Step 2 | $\$ 6500.00$ |
| Step 3 | $\$ 0.00$ |
| Step 4 | $\$ 2150.00$ |
| Step 5 | $\$ 350.00$ |
| Step 6 | $\$ 595.00$ |
| Step 7 | $\$ 450.00$ |
| Step 8 | $\$ 635.00$ |
| Step 9 | $\$ 635.00$ |
| Step 10 | $\$ 500.00$ |
| Breaker Item List Price, | $\$ 24605.00$ |
| GO-128W | 1 |
| Item Number | 1 |
| Quantity |  |

Step 1 Select Interrupting Type and Current Sensor (Example)

| Breaker Type |  |  | Current Sensor |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Interrupting Type \& Rating |  | No Sensor ${ }^{1}$ | List Price GO-128W | 150A | 400A | 800A | List Price GO-128W |
| WPS-08 | Standard | - | 1A | \$5380.00 | 1 B | 1 C | 1 D | \$5980.00 |
| WPH-08 | High | - | 2 A | \$7320.00 | 2 B | 2 C | 2 D | \$7920.00 |
| WPX-08 | Extended | - | 3 A | \$10220.00 | 3 B | $3 C$ | 3 D | \$10820.00 |
| WPF-08 | Class J Fuse | 300A Fuse | - | - | AB | AC | AD | \$12790.00 |
|  |  | 350A Fuse | - | - | BB | BC | BD | \$12790.00 |
|  |  | 400A Fuse | - | - | CB | CC | CD | \$12790.00 |
|  |  | 450A Fuse | - | - | DB | DC | DD | \$12790.00 |
|  |  | 500A Fuse | - | - | EB | EC | ED | \$12790.00 |
|  |  | 600A Fuse | - | - | FB | FC | FD | \$12790.00 |
|  | Class L Fuse | 800A Fuse | - | - | GB | GC | GD | \$12790.00 |
|  |  | 1000A Fuse | - | - | HB | HC | HD | \$12790.00 |
|  |  | 1200A Fuse | - | - | JB | JC | JD | \$12790.00 |
|  |  | 1600A Fuse | - | - | KB | KC | KD | \$12790.00 |

GO TO STEP 2 ON PAGE 6-5

## Low Voltage Power and DC Circuit Breakers WavePro Low Voltage Power Circuit Breakers

Section 6

Step 2 Select Trip Unit (Example)

|  | Functions |  |  |  |  |  |  |  | MicroVersaTrip® Plus |  | MicroVersaTrip ${ }^{\text {M }}$ M |  | MicroversaTrip ${ }^{\text {® }}$ PM |  | EntelliGuard ${ }^{\text {® }}$ Trip Unit |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Function Code | Long <br> Time | Short Time | Instantaneous | Ground Fault ${ }^{1}$ | Defeatable Ground Fault ${ }^{1}$ | Switchable ST or Inst \& GF 1 | ZSI-G F | $\begin{gathered} \text { ZSI-GF } \\ \& S T \end{gathered}$ | Product No. Digits | List Price GO-128W | Product No. Digits | List Price GO-128W | Product No. Digits | $\begin{aligned} & \text { List Price } \\ & \text { GO-128W } \end{aligned}$ | Product No. Digits | List Price GO-128W |
| LI | - |  | - |  |  |  |  |  | AJ | \$1250.00 | BJ | \$2600.00 | CJ | \$3500.00 | GA | * |
| LIG | - |  | - | - |  |  |  |  | AK | \$3500.00 | BK | \$4850.00 | CK | \$5750.00 | GB | * |
| LIGZ1 | - |  | - | - |  |  | - |  | AL | \$3915.00 | BL | \$5265.00 | CL | \$6165.00 | GC | * |
| LIGD ${ }^{2}$ | - |  | - | - | - |  |  |  | AM | \$4000.00 | BM | \$5350.00 | CM | \$6250.00 | GD | * |
| LIGDZ1 ${ }^{2}$ | - |  | - | - | - |  | - |  | AN | \$4500.00 | BN | \$5850.00 | CN | \$6750.00 | GE | * |
| LS | - | - |  |  |  |  |  |  | AA | \$2000.00 | BA | \$3350.00 | CA | \$4250.00 | GF | * |
| LS G | - | - |  | - |  |  |  |  | AB | \$4250.00 | BF | \$5600.00 | CC | \$6500.00 | GH | * |
| LSGZ1 | - | - |  | - |  |  | - |  | AA | \$2000.00 | BA | \$3350.00 | CA | \$4250.00 | GK | * |
| LSGZ2 | - | - |  | - |  |  |  | - | AD | \$5080.00 | BD | \$6430.00 | CD | \$7330.00 | GL | * |
| LSGD ${ }^{2}$ | - | - |  | - | - |  |  |  | AE | \$4750.00 | BE | \$6100.00 | CE | \$7000.00 | GM | * |
| LSGDZ1 $^{2}$ | - | - |  | - | - |  | - |  | AF | \$5165.00 | BF | \$6515.00 | CF | \$7415.00 | GN | * |
| LSGDZZ $^{2}$ | - | - |  | - | - |  |  | - | AG | \$5580.00 | BG | \$6930.00 | CG | \$7830.00 | GP | * |
| LSI | - | - | - |  |  |  |  |  | AP | \$2000.00 | BP | \$3350.00 | CP | \$4250.00 | GQ | * |
| LSIG | - | - | - | - |  |  |  |  | AQ | \$4250.00 | BQ | \$5600.00 | CQ | \$6500.00 | GR | * |
| LSIGX | - | - | - | - |  | - |  |  | AR | \$4920.00 | BR | \$6270.00 | CR | \$7170.00 | GS | * |
| LSIGZ1 | - | - | - | - |  |  | - |  | AS | \$4665.00 | BS | \$6015.00 | CS | \$6915.00 | GT | * |

*EntelliGuard ${ }^{\oplus}$ Trip Units will be available for WavePro circuit breakers after June 2008. Consult your local GE Field Sales Office for technical information and pricing.

Step 3 Select Trip Unit Rating Plug By Current Sensor (Example)

| Rating Plug | $\underset{\text { Pigit }}{\text { Product No. }}$ | Availability by Current Sensor Rating (shaded areas indicate availability) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 150 | 400 | 800 | 1600 | 2000 | 3200 | 4000 | 5000 |
| None | x |  |  |  |  |  |  |  |  |
| 60 | 1 | 1 |  |  |  |  |  |  |  |
| 80 | 2 |  |  |  |  |  |  |  |  |
| 100 | 3 |  |  |  |  |  |  |  |  |
| 125 | 4 |  |  |  |  |  |  |  |  |
| 150 | 5 |  | 1 |  |  |  |  |  |  |
| 200 | 6 |  |  |  |  |  |  |  |  |
| 225 | 7 |  |  |  |  |  |  |  |  |
| 250 | 8 |  |  |  |  |  |  |  |  |
| 300 | 9 |  |  | 1 |  |  |  |  |  |
| 400 | A |  |  |  |  |  |  |  |  |
| 450 | B |  |  | 1 |  |  |  |  |  |
| 500 | C |  |  |  |  |  |  |  |  |
| 600 | D |  |  |  | 1 |  |  |  |  |
| 700 | E |  |  |  |  |  |  |  |  |
| 750 | F |  |  |  |  | 1 |  |  |  |
| 800 | G |  |  |  |  | 1 |  |  |  |
| 1000 | H |  |  |  |  |  |  |  |  |
| 1100 | J |  |  |  | 1 |  |  |  |  |
| 1200 | K |  |  |  |  |  |  |  |  |
| 1500 | L |  |  |  |  | 1 |  |  |  |
| 1600 | M |  |  |  |  |  |  |  |  |
| 2000 | N |  |  |  |  |  |  |  |  |
| 2400 | P |  |  |  |  |  |  |  |  |
| 2500 | Q |  |  |  |  |  |  |  |  |
| 3000 | R |  |  |  |  |  |  |  |  |
| 3200 | S |  |  |  |  |  |  |  | 1 |
| 3600 | T |  |  |  |  |  |  | 1 |  |
| 4000 | $v$ |  |  |  |  |  |  |  | 1 |
| 5000 | w |  |  |  |  |  |  |  | 1 |

Example only - ordering information starts on page 6-11.

Step 4 Select Charge and Close Operators (Example)

|  | Manual |  | Manual Charge, <br> Remote Close |  | Electrical Charge <br> \& Close |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Product <br> Vumber <br> Digit | List Price <br> GO-128W | Product <br> Number <br> Digit | List Price <br> GO-128W | Product <br> Number <br> Digit | List Price <br> GO-128W |
| Manual | $X$ | $\$ 0.00$ | - | - | - | - |
| $120 \mathrm{~V}, 60 \mathrm{~Hz}$ | - | - | 1 | $\$ 547.00$ | F | $\$ 2150.00$ |
| $120 \mathrm{~V}, 50 \mathrm{~Hz}$ | - | - | 4 | $\$ 547.00$ | H | $\$ 2150.00$ |
| $120 \mathrm{~V}, 50 / 60 \mathrm{Hz-48Vdc}$ | - | - | - | - | N | $\$ 2150.00$ |
| $240 \mathrm{~V}, 60 \mathrm{~Hz}$ | - | - | 3 | $\$ 547.00$ | T | $\$ 2150.00$ |
| $240 \mathrm{~V}, 50 \mathrm{~Hz}$ | - | - | 6 | $\$ 547.00$ | W | $\$ 2150.00$ |
| 48 Vdc | - | - | A | $\$ 547.00$ | E | $\$ 2150.00$ |
| 110 Vdc | - | - | B | $\$ 547.00$ | P | $\$ 2150.00$ |
| 125 Vdc | - | - | C | $\$ 547.00$ | Q | $\$ 2150.00$ |

Step 5 Select Shunt Trip (Example)

| Voltage | Product Number Digit | List Price <br> GO-128W |
| :---: | :---: | :---: |
|  | $X$ | $\$ 0.00$ |
| $120 \mathrm{~V}, 60 \mathrm{~Hz}$ | 1 | $\$ 350.00$ |
| $208 \mathrm{~V}, 60 \mathrm{~Hz}$ | 2 | $\$ 350.00$ |
| $240 \mathrm{~V}, 60 \mathrm{~Hz}$ | 3 | $\$ 350.00$ |
| $70 \mathrm{~V}, 60 \mathrm{~Hz}$ | 4 | $\$ 350.00$ |
| $120 \mathrm{~V}, 50 \mathrm{~Hz}$ | 5 | $\$ 350.00$ |
| $208 \mathrm{~V}, 50 \mathrm{~Hz}$ | 6 | $\$ 350.00$ |

Step 6 Select Undervoltage Trip OR Electric Lockout (Example)

|  | Undervoltage <br> (Instantaneous) |  | Undervoltage <br> with Time Delay |  | Electric Lockout |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Voltage | Product <br> Number <br> Digit | List Price <br> GO-128W | Product <br> Number <br> Digit | List Price <br> GO-128W | Product <br> Number <br> Digit | List Price <br> GO-128W |
| None | $X$ | $\$ 0.00$ | $X$ | $\$ 0.00$ | $\times$ | $\$ 0.00$ |
| 120 V <br> $50 / 60 \mathrm{~Hz}$ | 1 | $\$ 565.00$ | - | - | 4 | $\$ 595.00$ |
| 208 V <br> $50 / 60 \mathrm{~Hz}$ | - | - | 3 | $\$ 565.00$ | - | - |
| 240 V <br> $50 / 60 \mathrm{~Hz}$ | 2 | $\$ 565.00$ | 3 | $\$ 565.00$ | 5 | $\$ 595.00$ |
| 24 Vdc | A | $\$ 565.00$ | - | - | G | $\$ 595.00$ |
| 48 Vdc | B | $\$ 565.00$ | - | - | H | $\$ 595.00$ |
| 110 Vdc | C | $\$ 565.00$ | - | - | J | $\$ 595.00$ |
| 125 Vdc | C | $\$ 565.00$ | E | $\$ 565.00$ | J | $\$ 595.00$ |

Step 7 Select Auxiliary Switch (Example)

| Auxiliary Switch | Product Number Digit | List Price <br> GO-128W |
| :---: | :---: | :---: |
| None | $\times$ | $\$ 0.00$ |
| 4-stage Auxiliary Switch | A | $\$ 450.00$ |

Step 8 Select Bell Alarm (Example)

| Bell Alarm | Product Number Digit | List Price <br> GO-128W |
| :---: | :---: | :---: |
| None | $X$ | $\$ 0.00$ |
| Bell Alarm | A | $\$ 635.00$ |
| Bell Alarm with Lockout | B | $\$ 635.00$ |

Step 9 Select Second Shunt Trip (Example)
(not available with WPS-50 5000A breakers)

|  |  | List Price <br> GO-128W |
| :---: | :---: | :---: |
| Voltage | Product Number Digit | $\$ 0.00$ |
| $120 \mathrm{~V}, 60 \mathrm{~Hz}$ | $\times$ | $\$ 635.00$ |
| $240 \mathrm{~V}, 60 \mathrm{~Hz}$ | 1 | $\$ 635.00$ |
| 24 Vdc | 3 | $\$ 635.00$ |
| $110 / 125 \mathrm{Vdc}$ | $B$ | $\$ 635.00$ |

Step 10 Select Additional Options (Example)

| A-Disconnect "PM Ready" | Hidden Close Push Button | Operation Counter | Remote Charge Indicator | Product No. Digit | $\begin{aligned} & \text { List Price } \\ & \text { GO-128W } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $X$ (none) | \$0.00 |
|  |  |  | - | A | \$375.00 |
|  |  | - |  | B | \$375.00 |
|  |  | - | - | C | \$750.00 |
|  | - |  |  | D | \$725.00 |
|  | - |  | - | E | \$500.00 |
|  | - | - |  | F | \$500.00 |
|  | - | - | - | G | \$875.00 |
| - |  |  |  | H | \$250.00 |
| - |  |  | - | $J$ | \$625.00 |
| - |  | $\bullet$ |  | K | \$625.00 |
| - |  | - | - | L | \$1000.00 |
| - | - |  |  | M | \$375.00 |
| - | - |  | - | N | \$750.00 |
| - | - | - |  | P | \$750.00 |

Example only - ordering information starts on page 6-11.

## Ordering Worksheet

The step-by-step process below allows you to systematically arrive at the product number and list price for your WavePro OEM breaker. As a result, you will get exactly what you need. In addition, this system reduces the cycle time, precisely specifies your requirements, allows tracking during production and ensures accurate invoicing. The final product number will appear on the breaker nameplate, so you can identify all components built into the original breaker and compare breakers within a facility for proper application.

Follow the instructions at each step and transfer the product number digit and price for each selection to the appropriate boxes in the Product Number Line and Price Column below. Note: You must submit a complete 15-digit product number when ordering. If you reach a point where no further options or accessories are desired, fill in the remaining product number digits with " $X$ " (for none).

For options not listed, contact your GE Sales Engineer or GE Switchgear Marketing for assistance.

Product Number Line-WavePro Breaker

| Wav for |  | Step 1 | Step 2 | Step 3 | Step 4 | Step 5 | Step 6 | Step 7 | Step 8 | Step 9 | Step 10 | Future use, but " X " required |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| W | S |  |  |  |  |  |  |  |  |  |  | $x$ |


| ate | Price Column | List Price GO-128W |
| :---: | :---: | :---: |
|  | Step 1 | \$ |
| Name | Step 2 | \$ |
|  | Step 3 | \$0.00 |
| Title | Step 4 | \$ |
| Company | Step 5 | \$ |
|  | Step 6 | \$ |
| Address | Step 7 | \$ |
|  | Step 8 | \$ |
| City | Step 9 | \$ |
| State | Step 10 | \$ |
|  | Breaker Item List Price, GO-128W | \$ |
| Zip | Item Number |  |
|  | Quantity |  |

Note: Photocopy this page for each breaker you select and submit it with your order.

## WavePro Low Voltage Power Circuit Breakers

## Basic Selection Information

Table A-1.
WavePro Interrupting Ratings ( $50 / 60 \mathrm{~Hz} \mathrm{ac}$ )

| Rated AC Voltage, Nominal (max) | Breaker Type | Frame Size (amps) | Short-Circuit RMS Symmetrical kA |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Short-Time Withstand | With Instantaneous Trip | Without Instantaneous Trip |
| $\begin{gathered} 600 \\ (635) \end{gathered}$ | WPS-08 | 800 | 30 | 30 | 30 |
|  | WPH-08 | 800 | 42 | 42 | 42 |
|  | WPX-08 | 800 | 50 | 50 | 50 |
|  | WPS-16 | 1600 | 42 | 42 | 42 |
|  | WPH-16 | 1600 | 65 | 65 | 65 |
|  | WPS-20 | 2000 | 65 | 65 | 65 |
|  | WPS-32 | 3200 | 65 | 65 | 65 |
|  | WPH-32 | 3200 | 85 | 85 | 85 |
|  | WPX-32 | 3200 | 85 | 85 | 85 |
|  | WPS-40 | 4000 | 85 | 85 | 85 |
|  | WPX-40 | 4000 | 85 | 85 | 85 |
|  | WPS-50 | 5000 | 85 | 85 | 85 |
|  | WPX-50 | 5000 | 85 | 85 | 85 |
| $\begin{gathered} 480 \\ (508) \end{gathered}$ | WPS-08 | 800 | 30 | 30 | 30 |
|  | WPH-08 | 800 | 42 | 42 | 42 |
|  | WPX-08 | 800 | 65 | 65 | 65 |
|  | WPS-16 | 1600 | 50 | 50 | 50 |
|  | WPH-16 | 1600 | 65 | 65 | 65 |
|  | WPS-20 | 2000 | 65 | 65 | 65 |
|  | WPS-32 | 3200 | 65 | 65 | 65 |
|  | WPH-32 | 3200 | 85 | 85 | 85 |
|  | WPX-32 | 3200 | 100 | 100 | 100 |
|  | WPS-40 | 4000 | 85 | 85 | 85 |
|  | WPX-40 | 4000 | 100 | 100 | 100 |
|  | WPS-50 | 5000 | 85 | 85 | 85 |
|  | WPX-50 | 5000 | 100 | 100 | 100 |
| $\begin{array}{r} 240 \\ (254) \end{array}$ | WPS-08 | 800 | 30 | 42 | 30 |
|  | WPH-08 | 800 | 42 | 50 | 42 |
|  | WPX-08 | 800 | 50 | 65 | 50 |
|  | WPS-16 | 1600 | 50 | 65 | 50 |
|  | WPH-16 | 1600 | 65 | 65 | 65 |
|  | WPS-20 | 2000 | 65 | 65 | 65 |
|  | WPS-32 | 3200 | 65 | 85 | 65 |
|  | WPH-32 | 3200 | 85 | 130 | 85 |
|  | WPX-32 | 3200 | 100 | 130 | 100 |
|  | WPS-40 | 4000 | 85 | 130 | 85 |
|  | WPX-40 | 4000 | 100 | 130 | 100 |
|  | WPS-50 | 5000 | 85 | 130 | 85 |
|  | WPX-50 | 5000 | 100 | 130 | 100 |

Table A-2.
Fused Breaker Ratings. Max. 600 V ac $50 / 60 \mathrm{~Hz}$.

| Frame Size (Amps) | Min | Interrupting Rating rms <br> Symmetrical kA | Max | Breaker Type |
| :---: | :---: | :---: | :---: | :---: |

${ }^{1}$ The maximum fuse rating is the largest fuse that tests show will result in proper performance of the breaker and fuse in combination under short circuit conditions.
${ }^{2}$ Fuses are mounted on separate fuse roll-out element and are ordered and shipped separately. See Table A-4 on page 6-9.

Table A-3.
Allowable Fuse Sizes for WavePro WPF and WPS breakers with separate fused rollout elements.
Note: WPS breakers with separate fuse roll-out element require the open fuse lockout (OFLO) device. Select "OFLO only" option for breakers 2000A-5000A: The "OFLO" option is standard on WPF breakers.

|  |  |  |  | Ferraz-Shawmut Fuse Range (Amps) ${ }^{1}$ Darkened areas indicate available fuse ranges |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Frame Size | Sensor Rating | Rating Plug | Class J |  |  |  |  |  | Class L |  |  |  |  |  |  |  |  |
| Type |  |  |  | 300 | 350 | 400 | 450 | 500 | 600 | 800 | 1000 | 1200 | 1600 | 2000 | 2500 | 3000 | 4000 | 5000 |
| WPF-08 | 800A | 150A | Below 150A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 150A, 400A | 150A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 400A | 225A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 400A, 800A | 300A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 400A, 800A | 400A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 800A | 600A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 800A | 700A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 800A | 800A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WPF-16 ${ }^{3}$ | 1600A | 800A | 400A \& below |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 800A | 500A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 800A, 1600A | 600A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 800A, 1600A | 700A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 800A, 1600A | 800A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 1600A | 1000A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 1600A | 1200A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | $1600 \mathrm{~A}^{3}$ | $1600 A^{3}$ |  |  |  |  |  |  |  |  |  |  |  | 3 |  |  |  |
| WPS-20 ${ }^{2}$ | 2000A | 2000A | 2000A \& below |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WPS-32 ${ }^{2}$ | 3200A | 3200A | 3200A \& below |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WPS-40 ${ }^{2}$ | 4000A | 4000A | 4000A \& below |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WPS-50 ${ }^{2}$ | 5000A | 5000A | 5000A \& below |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ Class L fuses less than 800A are not UL or CSA listed. Use Class J fuses for 600A and below. 800A-2000A fuses are also available as welder limiters.
${ }^{2}$ Fuses are mounted on separate fuse roll-out element and are ordered and shipped separately. See Table B-3 on pages 6-18 to 6-20.
${ }^{3}$ Integrally fused 1600A frame breakers (WPF-16) equipped with 2500A fuses can be furnished with rating plugs from 300-1600A. Breakers equipped with 2500A fuses cannot be modified to accept lower rated fuses. WPF-16 breakers equipped with 2000A and lower fuses cannot be upgraded to 2500A fuses. The maximum trip rating for a WPF-16 breaker is 1200A when furnished with other than 2500A fuses (see chart for min-max fuse rating for each rating pluq value). 2500A fuses preclude the use of shutters in the breaker cubicle.

## Table A-4.

Product Numbers for Replacement Fuses
Note: These product numbers are for field-installed replacement fuses. Original fuses for 800A and 1600A frame breakers are integral to the breaker and are factory installed. For larger frame breakers (2000A and greater), customers must provide and separately mount fuses.
Class J \& Class L Breaker Mounted Fuses for 800A and 1600A Frames
(replace original GE-installed fuses)

| Fuse Class | Fuse Rating | Product Number |
| :---: | :---: | :---: |
| $J$ | 300 A | A4J300 |
| $J$ | 400 A | A4J400 |
| $J$ | 450 A | A4J4550 |
| $J$ | 500 A | A4J500 |
| $J$ | 600 A | A4J600 |
| L | 800 A | A4BY800 |
| L | 1000 A | A4BY1000BG |
| L | 1200 A | A4BY1200BG |
| L | 1600 A | A4BY1600BG |
| L | 2000 A | A4BY2000 |
| L (Silver) | 2500 A | A4BQ2500GE |

Class L Fuses for Roll-out Elements on 2000A, 3200A, 4000A and 5000A Frames
(replace original customer-installed fuses)

| Fuse Rating | Product Number |
| :---: | :--- |
| $2000 A$ | A4BY2000-55BA |
| $2500 A$ | A4BY2500-55BA |
| $3000 A$ | A4BY3000-55BA |
| $4000 A$ | A4BY4000-55BA |
| $5000 A$ | A4BY5000-55BA |

Welder Limiters for Breaker Mounted Fuses
(replace original GE-installed fuses)

| Fuse Rating | Product Number |
| :---: | :---: |
| 800 A | A4BX800 |
| 1600 A | A4BX1600BG |
| 2000 A | A4BX2000 |

Power+, MicroVersaTrip ${ }^{\oplus}$ Plus and MicroVersaTrip ${ }^{\oplus}$ PM Trip Unit Characteristics

| Frame Size | Max. Amp Rating | Sensor Rating (Amps) (CT) | Long-time |  | Short-time |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Long Time (LT) (Pickup) Multiple of Rating Plug Amps ( $\mathrm{I}_{\mathrm{n}}$ ) | Delay [Band] (Seconds) ${ }^{1}$ | Pickup (Multiple of Long Time) (LT) | Delay [Band] (Seconds) |
| WPS-08 / WPH-08 WPX-08 / WPF-08 | 800 | 150, 400, 800 | Power+ 0.5 thru 1.1 in steps of 0.1 | $\begin{gathered} {[1][2][3][4]} \\ 2.4,4.9,9.8,20 \end{gathered}$ | Power+$\begin{gathered} 1.5,2.0,2.5,3.0,4.0 \\ 5.0,7.0,9.0 \end{gathered}$ | $\begin{array}{r} 1^{2} t \text { in } \\ 0.40 \end{array}$ |
| WPS-16 / WPH-16 WPF-16 | 1600 | 800, 1600 |  |  |  |  |
| WPS-20 | 2000 | 2000 |  |  |  | $\begin{gathered} 1^{2} \text { t out }^{2} \\ {[1][2][3]} \\ .10, .21, .35 \end{gathered}$ |
| WPS-32 / WPH-32 / WPX-32 | 3200 | 3200 | MVT Plus/PM 0.5 thru 1.1 in steps of 0.05 |  | MVT Plus/PM 1.5 thru 9.0 in steps of 0.5 |  |
| WPS-40 / WPX-40 | 4000 | 4000 |  |  |  |  |
| WPS-50/WPX-50 ${ }^{4}$ | 5000 | 5000 |  |  |  |  |


| Frame Size | Adjustable Instantaneous Pickup without ST (Multiple of Rating Plug Amps) $\left(1 n_{n}\right)$ | Adjustable Instantaneous Pickup with ST (Multiple of Rating Plug Amps) $\left(I_{n}\right)$ | Ground Fault |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Pickup (Multiple of Sensor Amp rating) (CT) | Delay with $I^{2} t$ (Seconds) | Delay without $I^{2} t$ [Band] (Seconds) ${ }^{3}$ |
| $\begin{gathered} \text { WPS-08 } \\ \text { WPH-08 } \\ \text { WPX-08 } \\ \text { WPF-08 } \\ \text { WPS-16 / WPH-16 } \\ \text { WPF-16 } \\ \text { WPS-20 } \end{gathered}$ | Power+ <br> 1.5, 2.0, 3.0, 5.0, <br> 7.0, 9.0, 10.0 <br> MVT Plus/PM 1.5 thru 10.0 in steps of 0.5 | Power+ <br> 1.5, 2.0, 3.0, 5.0, 7.0 <br> $9.0,10.0,13.0,15.0$ <br> MVT Plus/PM 1.5 thru 15.0 in steps of 0.5 | Power+ <br> .20, .25, .30, .35, .40, . 45, . $50, .60$, <br> MVT Plus/P M 0.20 thru 0.60 in steps of 0.01 | .44 at 200\% of pick up at lower limit of band | $\begin{gathered} {[1][2][3]} \\ .10, .21, .35 \end{gathered}$ |
| WPS-32 / WPH-32 / WPX-32 |  | Power+ $\begin{gathered} 1.5,2.0,3.0,5.0,7.0 \\ 9.0,10.0,13.0 \end{gathered}$ <br> MVT Plus/PM 1.5 thru 13.0 in steps of 0.5 | Power+ <br> .20, .22, .24, .26, .28, .30, .34, . 37 , <br> MVT Plus/PM 0.20 thru 0.37 in steps of 0.01 |  |  |
| WPS-40 / WPX-40 | $\begin{gathered} \text { Power+ } \\ \text { 1.5, 2.0, 3.0, } \\ 5.0,7.0,9.0 \end{gathered}$ <br> MVT Plus/PM 1.5 thru 9.0 in steps of 0.5 | Power+ <br> 1.5, 2.0, 3.0, <br> 5.0, 7.0, 9.0 <br> MVT Plus/PM 1.5 thru 9.0 in steps of 0.5 | Power+ .20, .22, .24, .26, .28, . 30 <br> MVT Plus/PM 0.20 thru 0.30 in steps of 0.01 |  |  |
| WPS-50 / WPX-50 ${ }^{4}$ | MVT Plus/PM <br> 1.5 thru 7.0 in steps of 0.5 | MVT Plus/PM <br> 1.5 thru 7.0 in steps of 0.5 | MVT Plus/PM 0.20 thru 0.24 in steps of 0.01 |  |  |

[^0]= Rating plug amps
(S) CT = Sensor amp rating
(C) LT = Long-time current setting

ST = Short Time function

## Selection and Pricing

Before beginning the selection and pricing process, first determine the appropriate WavePro breaker type from Table A-1 on page 6-8. You will need this information to proceed.


## Step 1 Select Interrupting Type And Current Sensor

For WPF breaker types, see Table A-3 on page 6-9 for allowable combinations of fuse size, current sensor and rating plugs. From the table below that corresponds to your frame size, select the interrupting type and current sensor for your breaker type. Transfer the product number digits to the box marked Step 1 in the Product Number Line and the price to the box marked Step 1 in the Price Column on the Ordering Worksheet (page 6-7). Note: Power fuses and open fuse lockout (OFLO) devices are included in the pricing for WPF type 800 and 1600 amp fused breakers.

800 Amp Frame

| Breaker Type | Interrupting Type \& Rating |  | Current Sensor |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | No Sensor ${ }^{1}$ | List Price GO-128W | 150A | 400A | 800A | List Price GO-128W |
| WPS-08 | Standard | - | 1A | \$5380.00 | 1B | 1 C | 1D | \$5980.00 |
| WPH-08 | High | - | 2A | \$7320.00 | 2 B | 2 C | 2D | \$7920.00 |
| WPX-08 | Extended | - | 3A | \$10220.00 | 3B | 3 C | 3D | \$10820.00 |
|  |  | 300A Fuse | - | - | AB | AC | AD | \$12790.00 |
|  |  | 350A Fuse | - | - | BB | BC | BD | \$12790.00 |
|  |  | 400A Fuse | - | - | CB | CC | CD | \$12790.00 |
|  | Class J Fuse | 450A Fuse | - | - | DB | DC | DD | \$12790.00 |
|  |  | 500A Fuse | - | - | EB | EC | ED | \$12790.00 |
|  |  | 600A Fuse | - | - | FB | FC | FD | \$12790.00 |
| WPF-08 |  | 800A Fuse | - | - | GB | GC | GD | \$12790.00 |
|  | Class L Fuse | 1000A Fuse | - | - | HB | HC | HD | \$12790.00 |
|  | Class LFuse | 1200A Fuse | - | - | JB | JC | JD | \$12790.00 |
|  |  | 1600A Fuse | - | - | KB | KC | KD | \$12790.00 |
|  | elder Limiter | 800A Fuse | - | - | - | - | ND | \$12790.00 |
|  |  | 1600A Fuse | - | - | - | - | QD | \$12790.00 |

${ }^{1}$ Draw-out breaker only, non-automatic.

1600 Amp Frame

| Breaker Type | Interrupting Type \& Rating |  | Current Sensor |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | No Sensor ${ }^{1}$ | List Price GO-128W | 800A | 1600A | List Price GO-128W |
| WPS-16 | Standard | - | 1E | \$11730.00 | 1F | 1G | \$12330.00 |
| WPH-16 | High | - | 2 E | \$13960.00 | 2 F | 2G | \$14560.00 |
| WPF-16 | Class J Fuse | 450A Fuse | - | - | DF | - | \$19040.00 |
|  |  | 500A Fuse | - | - | EF | - | \$19040.00 |
|  |  | 600A Fuse | - | - | FF | FG | \$19040.00 |
|  | Class L Fuse | 800A Fuse | - | - | GF | GG | \$19040.00 |
|  |  | 1000A Fuse | - | - | HF | HG | \$19040.00 |
|  |  | 1200A Fuse | - | - | JF | JG | \$19040.00 |
|  |  | 1600A Fuse | - | - | KF | KG | \$19040.00 |
|  |  | 2000A Fuse | - | - | LF | LG | \$19040.00 |
|  |  | 2500A Fuse | - | - | MF | MG | \$19040.00 |
|  | Welder Limiter | 800A Fuse | - | - | NF | NG | \$19040.00 |
|  |  | 1600A Fuse | - | - | QF | QG | \$19040.00 |
|  |  | 2000A Fuse | - | - | RF | RG | \$19040.00 |

[^1]
## WavePro Low Voltage Power Circuit Breakers

Selection and Pricing (cont.)

Step 1 (Cont.)

2000 Amp Frame

| Breaker <br> Type | Interrupting <br> Type | No <br> Sensor ${ }^{1}$ | List Price <br> GO-128W | 2000A <br> Sensor | List Price <br> GO-128W |
| :---: | :---: | :---: | :---: | :---: | :---: |
| WPS-20 | Standard | 1 H | $\$ 19190.00$ | 1 J | $\$ 19790.00$ |
|  | OFLO only ${ }^{2}$ | - | - | 4 J | $\$ 20765.00$ |

4000 Amp Frame

| Breaker <br> Type | Interrupting <br> Type | No <br> Sensor ${ }^{1}$ | List Price <br> GO-128W | 4000A <br> Sensor | List Price <br> GO-128W |
| :---: | :---: | :---: | :---: | :---: | :---: |
| WPS-40 | Standard | 1 M | $\$ 32190.00$ | 1 N | $\$ 32790.00$ |
|  | OFLO only ${ }^{2}$ | - | - | 4 N | $\$ 33765.00$ |
| WPX-40 | Extended | 3 M | $\$ 37115.00$ | 3 N | $\$ 37715.00$ |

3200 Amp Frame

| Breaker <br> Type | Interrupting <br> Type | No <br> Sensor ${ }^{1}$ | List Price <br> GO-128W | 3200 A <br> Sensor | List Price <br> GO-128W |
| :---: | :---: | :---: | :---: | :---: | :---: |
| WPS-32 | Standard | 1 K | $\$ 25100.00$ | 1 L | $\$ 25700.00$ |
|  | OFLO only ${ }^{2}$ | - | - | 4 L | $\$ 26675.00$ |
| WPH-32 | High | 2 K | $\$ 28550.00$ | 2 L | $\$ 29150.00$ |
| WPX-32 | Extended | 3 K | $\$ 33045.00$ | 3 L | $\$ 33645.00$ |

5000 Amp Frame

| Breaker <br> Type | Interrupting <br> Type | 5000A <br> Sensor | List Price <br> GO-128W |
| :---: | :---: | :---: | :---: |
| WPS-50 | Standard | $1 R$ | $\$ 36660.00$ |
|  | OFLO only ${ }^{2}$ | $4 R$ | $\$ 37635.00$ |
| WPX-50 | Extended | $3 R$ | $\$ 42165.00$ |

${ }^{1}$ Draw-out breaker only, non-automatic.
${ }^{2}$ List Price includes OPEN FUSE LOCKOUT (OFLO) device. Use with separate fuse roll-out element (see TABLE B-2 on page 6-17).


## Step 2 Select Trip Unit

From the table below, select your trip unit. Transfer the product number digits to the boxes marked Step 2 in the Product Number Line and the price to the box marked Step 2 in the Price Column.

MicroVersaTrip ${ }^{\circledR}$ Trip Unit
All MicroVersaTrip ${ }^{\oplus}$ trip units include integral targets and ammeter display. MicroVersaTrip ${ }^{\oplus} \mathrm{M}$ adds full metering and communications; MicroVersaTrip ${ }^{\oplus}$ PM adds relaying, metering and communications.

| Functions |  |  |  |  |  |  |  |  | MicroVersaTrip ${ }^{\text {® }}$ Plus |  | MicroVersaTrip ${ }^{\text {P }}$ PM |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Long <br> Time | Short Time | Instantaneous | Ground Fault ${ }^{1}$ | Defeatable Ground Fault ${ }^{1,2}$ | Switchable ST or Inst \& GF ${ }^{1,2}$ | ZSI-GF ${ }^{3}$ | $\begin{aligned} & \text { ZSI-GF } \\ & \& S T^{3} \end{aligned}$ | Product No. Digits | List Price GO-128W | M |  | PM |  |
| Function Code |  |  |  |  |  |  |  |  |  |  | Product No. Digits | List Price GO-128W <br> GO-128W | Product No. Digits | List Price GO-128W |
| LI | - |  | - |  |  |  |  |  | AJ | \$1250.00 | BJ | \$2600.00 | CJ | \$3500.00 |
| LIG | - |  | - | - |  |  |  |  | AK | \$3500.00 | BK | \$4850.00 | CK | \$5750.00 |
| LIGZ1 | - |  | - | - |  |  | - |  | AL | \$3915.00 | BL | \$5265.00 | CL | \$6165.00 |
| LIGD ${ }^{2}$ | - |  | - |  | - |  |  |  | AM | \$4000.00 | BM | \$5350.00 | CM | \$6250.00 |
| LIGDZ1 ${ }^{2}$ | - |  | - |  | - |  | - |  | AN | \$4500.00 | BN | \$5850.00 | CN | \$6750.00 |
| LS | - | - |  |  |  |  |  |  | AA | \$2000.00 | BA | \$3350.00 | CA | \$4250.00 |
| LSG | - | - |  | - |  |  |  |  | AB | \$4250.00 | BB | \$5600.00 | CB | \$6500.00 |
| LSGZ1 | - | - |  | - |  |  | - |  | AC | \$4665.00 | BC | \$6015.00 | CC | \$6915.00 |
| LSGZ2 | - | - |  | - |  |  |  | - | AD | \$5080.00 | BD | \$6430.00 | CD | \$7330.00 |
| LSGD ${ }^{2}$ | - | - |  |  | - |  |  |  | AE | \$4750.00 | BE | \$6100.00 | CE | \$7000.00 |
| LSGDZ1 ${ }^{2}$ | - | - |  |  | - |  | - |  | AF | \$5165.00 | BF | \$6515.00 | CF | \$7415.00 |
| LSGDZ2 ${ }^{2}$ | - | - |  |  | - |  |  | - | AG | \$5580.00 | BG | \$6930.00 | CG | \$7830.00 |
| LSI | - | - | - |  |  |  |  |  | AP | \$2000.00 | BP | \$3350.00 | CP | \$4250.00 |
| LSIG | - | - | - | - |  |  |  |  | AQ | \$4250.00 | BQ | \$5600.00 | CQ | \$6500.00 |
| LSIGX ${ }^{2}$ | - | - | - | - |  | - |  |  | AR | \$4920.00 | BR | \$6270.00 | CR | \$7170.00 |
| LSIGZ1 | - | - | - | - |  |  | - |  | AS | \$4665.00 | BS | \$6015.00 | CS | \$6915.00 |
| LSIGZ2 | - | - | - | - |  |  |  | - | AT | \$5080.00 | BT | \$6430.00 | CT | \$7330.00 |
| LSIGD ${ }^{2}$ | - | - | - |  | - |  |  |  | AV | \$4750.00 | BV | \$6100.00 | CV | \$7000.00 |
| LSIGDZ1 $^{2}$ | - | - | - |  | - |  | - |  | AW | \$5165.00 | BW | \$6515.00 | CW | \$7415.00 |
| LSIGDZ2 $^{2}$ | - | - | - |  | - |  |  | - | AY | \$5580.00 | BY | \$6930.00 | CY | \$7830.00 |

${ }^{1}$ Ground fault is 3-wire/4-wire. If 4-wire ground fault is required, then one of the A-Disconnect options in Step 10 must be selected and the sensor for the 4th wire (neutral) must be ordered separately. See Table B-5 on page 6-21.
${ }^{2}$ Function combination is not UL Listed.
${ }^{3}$ Requires zone selective interlock module, Type TIM1 (120Vac control voltage), List Price \$402.00, GO-245B.

## Step 3 Select Trip Unit Rating Plug By Current Sensor

Select your rating plug and current sensor combination. Transfer the product number digit to the box marked Step $\mathbf{3}$ in the product number line. There is no price component for this step.

| Rating Product Availability by Current Sensor Rating (shaded areas indicate availability) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Plug | No. Digit | 150 | 400 | 800 | 1600 | 2000 | 3200 | 4000 | 5000 |
| None | $\times$ |  |  |  |  |  |  |  |  |
| 60 | 1 | 1 |  |  |  |  |  |  |  |
| 80 | 2 |  |  |  |  |  |  |  |  |
| 100 | 3 |  |  |  |  |  |  |  |  |
| 125 | 4 |  |  |  |  |  |  |  |  |
| 150 | 5 |  | 1 |  |  |  |  |  |  |
| 200 | 6 |  |  |  |  |  |  |  |  |
| 225 | 7 |  |  |  |  |  |  |  |  |
| 250 | 8 |  |  |  |  |  |  |  |  |
| 300 | 9 |  |  | 1 |  |  |  |  |  |
| 400 | A |  |  |  |  |  |  |  |  |
| 450 | B |  |  | 1 |  |  |  |  |  |
| 500 | C |  |  |  |  |  |  |  |  |
| 600 | D |  |  |  | 1 |  |  |  |  |
| 700 | E |  |  |  |  |  |  |  |  |
| 750 | F |  |  |  |  | 1 |  |  |  |
| 800 | G |  |  |  |  | 1 |  |  |  |
| 1000 | H |  |  |  |  |  |  |  |  |
| 1100 | J |  |  |  | 1 |  |  |  |  |
| 1200 | K |  |  |  |  |  |  |  |  |
| 1500 | L |  |  |  |  | 1 |  |  |  |
| 1600 | M |  |  |  |  |  |  |  |  |
| 2000 | N |  |  |  |  |  |  |  |  |
| 2400 | P |  |  |  |  |  |  |  |  |
| 2500 | Q |  |  |  |  |  |  |  |  |
| 3000 | R |  |  |  |  |  |  |  |  |
| 3200 | S |  |  |  |  |  |  |  | 1 |
| 3600 | T |  |  |  |  |  |  | 1 |  |
| 4000 | V |  |  |  |  |  |  |  | 1 |
| 5000 | W |  |  |  |  |  |  |  | 1 |

${ }^{1}$ At coordinate indicated, rating plug and current sensor combination available only on MicroVersaTrip trip units. Not available on Power+ trip units.

Step 4 Select Charge and Close Operators
Select your charge and close options. Transfer the product number digits to the box marked Step 4 in the Product Number Line and the price to the box marked Step 4 in the Price Column.

| Charge-Close Voltage | Manual |  | Manual Charge, Remote Close ${ }^{1}$ |  | Electrical Charge \& Close ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Product No. Digit | List Price GO-128W | Product No. Digit | List Price GO-128W | Product No. Digit | List Price GO-128W |
| Manually Operated | $\times$ | \$0.00 | - | - | - | - |
| $120 \mathrm{~V}, 60 \mathrm{~Hz}$ | - | - | 1 | \$547.00 | F | \$2150.00 |
| $120 \mathrm{~V}, 50 \mathrm{~Hz}$ | - | - | 4 | \$547.00 | H | \$2150.00 |
| 120V, 50/60 Hz-48Vdc | - | - | - | - | N | \$2150.00 |
| $240 \mathrm{~V}, 60 \mathrm{~Hz}$ | - | - | 3 | \$547.00 | T | \$2150.00 |
| $240 \mathrm{~V}, 50 \mathrm{~Hz}$ | - | - | 6 | \$547.00 | w | \$2150.00 |
| 48 Vdc | - | - | A | \$547.00 | E | \$2150.00 |
| 110 Vdc | - | - | B | \$547.00 | P | \$2150.00 |
| 125 Vdc | - | - | C | \$547.00 | Q | \$2150.00 |
| 250 Vdc | - | - | D | \$547.00 | R | \$2150.00 |

[^2]
## WavePro Low Voltage Power Circuit Breakers

Step 5 Select Shunt Trip

Select your shunt trip. Transfer the product number digit to the box marked Step 5 in the Product Number Line and the price to the box marked Step 5 in the Price Column. (Note: All shunt trips require the selection of a 4 - or 7 -stage auxiliary switch in Step 7. Second shunt trip may be selected in Step 9.)

| Voltage | Product <br> Number Digit | List Price, <br> GO-128W | Voltage | Product <br> Number Digit | List Price <br> GO-128W |
| :---: | :---: | :---: | :---: | :---: | :---: |
| None | $X$ | $\$ 0.00$ | $240 \mathrm{~V} / 50 \mathrm{~Hz}$ | 7 | $\$ 350.00$ |
| $120 \mathrm{~V}, 60 \mathrm{~Hz}$ | 1 | $\$ 350.00$ | - | - | - |
| $208 \mathrm{~V}, 60 \mathrm{~Hz}$ | 2 | $\$ 350.00$ | 24 Vdc | B | $\$ 350.00$ |
| $240 \mathrm{~V}, 60 \mathrm{~Hz}$ | 3 | $\$ 350.00$ | 48 Vdc | D | $\$ 350.00$ |
| $70 \mathrm{~V}, 60 \mathrm{~Hz}$ | 4 | $\$ 350.00$ | $110 / 125 \mathrm{Vdc}$ | E | $\$ 350.00$ |
| $120 \mathrm{~V}, 50 \mathrm{~Hz}$ | 5 | $\$ 350.00$ | 250 Vdc | F | $\$ 350.00$ |
| $208 \mathrm{~V}, 50 \mathrm{~Hz}$ | 6 | $\$ 350.00$ | - | - | - |

Step 6 Select Undervoltage Trip OR Electric Lockout
Select your undervoltage trip or electric lockout option. Transfer the product number digit to the box marked Step 6 in the Product Number Line and the price to the box marked Step 6 in the Price Column.

|  | Undervoltage (Instantaneous) |  | Undervoltage with <br> Time Delay ${ }^{1}$ |  | Electric Lockout |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |

1 Time delay module is provided as a separate component.
${ }_{3}^{2}$ Order static time delay TAKYUVT5 separately. See Table B-6 on page 6-21.
${ }^{3}$ Order static time delay TAKYUVT4 separately. See Table B-6 on page 6-21.
${ }^{4}$ Order static time delay TAKYUVT1 separately. See Table B-6 on page 6-21.
${ }^{5}$ Order static time delay TAKYUVT2 separately. See Table B-6 on page 6-21.
Step 7 Select Auxiliary Switch
Select your auxiliary switch option. Transfer the product number digit to the box marked Step 7 in the Product Number Line and the price to the box marked Step 7 in the Price Column.

|  |  | List Price |
| :---: | :---: | :---: |
| Auxiliary Switch | Product No. Digit | GO-128W |
| None | X | $\$ 0.00$ |
| 4-stage Auxiliary Switch | A | $\$ 450.00$ |
| 7-stage Auxiliary Switch | B | $\$ 765.00$ |

Step 8 Select Bell Alarm/Push Button Cover
Select your bell alarm option. Transfer the product number digit to the box marked Step 8 in the Product Number Line and the price to the box marked Step 8 in the Price Column.

| Bell Alarm | Push Button Cover | Product No. Digit | List Price <br> GO-128W |
| :---: | :---: | :---: | :---: |
| None | None | X | $\$ 0.00$ |
| Bell Alarm | None | A | $\$ 635.00$ |
| Bell Alarm with Lockout | None | B | $\$ 635.00$ |
| None | CLOSE PB Cover | C | $\$ 40.00$ |
| Bell Alarm | CLOSE PB Cover | D | $\$ 675.00$ |
| Bell Alarm with Lockout | CLOSE PB Cover | F | $\$ 675.00$ |
| None | OPEN PB Cover | G | $\$ 40.00$ |
| Bell Alarm | OPEN PB Cover | H | $\$ 675.00$ |
| Bell Alarm with Lockout | OPEN PB Cover | J | $\$ 675.00$ |
| None | CLOSE \& OPEN PB Cover | K | $\$ 80.00$ |
| Bell Alarm | CLOSE \& OPEN PB Cover | L | $\$ 715.00$ |
| Bell Alarm with Lockout | CLOSE \& OPEN PB Cover | $\$ 715.00$ |  |



Shunt Trip


Undervoltage Trip/Electric Lockout


Auxiliary Switch


Bell Alarm

## Low Voltage Power and DC Circuit Breakers

Step 9 Select Second Shunt Trip
If you selected a shunt trip in Step 5 and require another, select your second shunt trip option. Transfer the product number digit to the box marked Step 9 in the Product Number Line and the price to the box marked Step 9 in the Price Column. Note: Second shunt trip requires the selection of a 7-stage auxiliary switch in Step 7.

|  |  | List Price <br> GO-128W |
| :---: | :---: | :---: |
| Voltage | Product No. Digit | $\$ 0.00$ |
| $120 \mathrm{~V}, 60 \mathrm{~Hz}$ | 1 | $\$ 635.00$ |
| $240 \mathrm{~V}, 60 \mathrm{~Hz}$ | 3 | $\$ 635.00$ |
| 24 Vdc | B | $\$ 635.00$ |
| $110 / 125 \mathrm{Vdc}$ | E | $\$ 635.00$ |
| 250 Vdc | F | $\$ 635.00$ |

## Step 10 Select Additional Options

Select your combination of additional options. Transfer the product number digit to the box marked Step 10 in the Product Number Line and the price to the box marked Step 10 in the Price Column.

| A-Disconnect ${ }^{1}$ "PM Ready" | Hidden Close <br> Push Button ${ }^{2}$ | Operation Counter | Remote Charge Indicator | Product No. Digit | List Price GO-128W |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $X$ (none) | \$0.00 |
|  |  |  | - | A | \$375.00 |
|  |  | - |  | B | \$375.00 |
|  |  | - | - | C | \$750.00 |
|  | - |  |  | D | \$125.00 |
|  | - |  | - | E | \$500.00 |
|  | - | - |  | F | \$500.00 |
|  | - | - | - | G | \$875.00 |
| - |  |  |  | H | \$250.00 |
| - |  |  | - | $J$ | \$625.00 |
| - |  | - |  | K | \$625.00 |
| - |  | - | - | L | \$1000.00 |

${ }^{1}$ The 36-point A-Disconnect is automatically supplied if any of the following options were selected in previous steps:
-zone selective interlock
-shunt trip
-auxiliary switch
-bell alarm
-undervoltage trip
-electrical lockout device
-electric charge and close
-MicroVersaTrip PM trip unit ("M" or "PM" option)
Select the A-Disconnect here only if (1) none of these options were selected in previous steps and 4 -wire ground fault is required or (2) none of these options were selected in previous steps and your WavePro breaker is to be "PM ready." "PM ready" wiring includes inputs for 24 V dc auxiliary power, communications, and 3 phase voltage.
${ }^{2}$ Available only on breakers with electrical charge and close option


Optional Hidden Close button feature shown

WavePro Breaker Power+ and MicroVersaTrip ${ }^{\oplus}$ Plus/PM Rating Plugs

| Breaker Frame Size (Amps) | Current Sensor (Amps) | Rating Plug (Amps) | Power+ Rating Plug w/o GF | Power+ Rating Plug with GF | Power+ Rating Plug with Defeatable GF | MicroVersaTrip ${ }^{\text {® }}$ Plus/PM Rating Plug |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 800 | 150 | $\begin{aligned} & \text { List Price } \\ & \text { GO-245A } \end{aligned}$ | \$89.00 | \$747.00 | \$820.00 | \$89.00 |
|  |  | 60 | N/A | N/A | N/A | TR1B60 |
|  |  | 80 | TR1C80 | TR1C80GF | TR1C80GFD | TR1B80 |
|  |  | 100 | TR1C100 | TR1C100GF | TR1C100GFD | TR1B100 |
|  |  | 125 | TR1C125 | TR1C125GF | TR1C125GFD | TR1B125 |
|  |  | 150 | TR1C150 | TR1C150GF | TR1C150GFD | TR1B150 |
|  | 400 | 150 | N/A | N/A | N/A | TR4B150 |
|  |  | 200 | TR4C200 | TR4C200GF | TR4C200GFD | TR4B200 |
|  |  | 225 | TR4C225 | TR4C225GF | TR4C225GFD | TR4B225 |
|  |  | 250 | TR4C250 | TR4C250GF | TR4C250GFD | TR4B250 |
|  |  | 300 | TR4C300 | TR4C300GF | TR4C300GFD | TR4B300 |
|  |  | 400 | TR4C400 | TR4C400GF | TR4C400GFD | TR4B400 |
|  | 800 | 300 | N/A | N/A | N/A | TR8B300 |
|  |  | 400 | TR8C400 | TR8C400GF | TR8C400GFD | TR8B400 |
|  |  | 450 | N/A | N/A | N/A | TR8B450 |
|  |  | 500 | TR8C500 | TR8C500GF | TR8C500GFD | TR8B500 |
|  |  | 600 | TR8C600 | TR8C600GF | TR8C600GFD | TR8B600 |
|  |  | 700 | TR8C700 | TR8C700GF | TR8C700GFD | TR8B700 |
|  |  | 800 | TR8C800 | TR8C800GF | TR8C800GFD | TR8B800 |
| 1600 | 800 | 300 | N/A | N/A | N/A | TR8B300 |
|  |  | 400 | TR8C400 | TR8C400GF | TR8C400GFD | TR8B400 |
|  |  | 450 | N/A | N/A | N/A | TR8B450 |
|  |  | 500 | TR8C500 | TR8C500GF | TR8C500GFD | TR8B500 |
|  |  | 600 | TR8C600 | TR8C600GF | TR8C600GFD | TR8B600 |
|  |  | 700 | TR8C700 | TR8C700GF | TR8C700GFD | TR8B700 |
|  |  | 800 | TR8C800 | TR8C800GF | TR8C800GFD | TR8B800 |
|  | 1600 | 600 | N/A | N/A | N/A | TR168600 |
|  |  | 800 | TR16C800 | TR16C800GF | TR16C800GFD | TR168800 |
|  |  | 1000 | TR16C1000 | TR16C1000GF | TR16C1000GFD | TR16B1000 |
|  |  | 1100 | N/A | N/A | N/A | TR16B1100 |
|  |  | 1200 | TR16C1200 | TR16C1200GF | TR16C1200GFD | TR16B1200 |
|  |  | 1600 | TR16C1600 | TR16C1600GF | TR16C1600GFD | TR16B1600 |
| 2000 | 2000 | 750 | N/A | N/A | N/A | TR20B750 |
|  |  | 800 | N/A | N/A | N/A | TR20B800 |
|  |  | 1000 | TR20C1000 | TR20C1000GF | TR20C1000GFD | TR20B1000 |
|  |  | 1200 | TR20C1200 | TR20C1200GF | TR20C1200GFD | TR20B1200 |
|  |  | 1500 | N/A | N/A | N/A | TR20B1500 |
|  |  | 1600 | TR20C1600 | TR20C1600GF | TR20C1600GFD | TR20B1600 |
|  |  | 2000 | TR20C2000 | TR20C2000GF | TR20C2000GFD | TR20B2000 |
| 3200 | 3200 | 1200 | TR32C1200 | TR32C1200GF | TR32C1200GFD | TR32B1200 |
|  |  | 1600 | TR32C1600 | TR32C1600GF | TR32C1600GFD | TR32B1600 |
|  |  | 2400 | TR32C2400 | TR32C2400GF | TR32C2400GFD | TR32B2400 |
|  |  | 3200 | TR32C3200 | TR32C3200GF | TR32C3200GFD | TR32B3200 |
| 4000 | 4000 | 1600 | TR40C1600 | TR40C1600GF | TR40C1600GFD | TR40B1600 |
|  |  | 2000 | TR40C2000 | TR40C2000GF | TR40C2000GFD | TR40B2000 |
|  |  | 2500 | TR40C2500 | TR40C2500GF | TR40C2500GFD | TR40B2500 |
|  |  | 3000 | TR40C3000 | TR40C3000GF | TR40C3000GFD | TR40B3000 |
|  |  | 3600 | N/A | N/A | N/A | TR40B3600 |
|  |  | 4000 | TR40C4000 | TR40C4000GF | TR40C4000GFD | TR40B4000 |
| 5000 | 5000 | 3200 | N/A | N/A | N/A | TR50B3200 |
|  |  | 4000 | N/A | N/A | N/A | TR50B4000 |
|  |  | 5000 | N/A | N/A | N/A | TR50B5000 |

Table B-1.
Breaker Substructures
NOTE: Use shallow substructures unless there are other deep substructures in the line-up.

| Frame Size | Breaker Type | Substructure Type |  | Substructure Product No. |
| :---: | :--- | :--- | :--- | :--- |

Table B-2.
Fuse Rollout Elements and Substructures for Drawout Equipment Substructures 600 Volts AC, $50 / 60 \mathrm{~Hz}$
NOTE: When used in conjunction with these fuse roll out elements, WavePro Type WPS drawout circuit breaker elements should be equipped with an open fuse lockout (OFLO) device, and the WPS breaker substructure should be ordered with a Keylock Mounting Kit. Key interlock is supplied and mounted by the customer.

| Frame Size | Substructure Type | Fuse Roll Out Element (FRE) Only (No Fuses) ${ }^{1,2}$ |  | FRE Drawout Substructures ${ }^{\text {2,3 }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Product No. | List Price GO-128W | Product No. | List Price GO-128W |
| 2000A/3200A | Shallow | WP32FRE | \$7470.00 | WP32FRSUBSH1 | \$4150.00 |
| 4000A | Shallow | WP40FRE | \$7950.00 | WP40FRSUBSH1 | \$5250.00 |
| 5000A | Deep | WP50FRE | \$8690.00 | WP50FRSUBSH1 | \$6375.00 |

${ }^{1}$ Fuse rollouts accept special Class L fuses 2000-5000 Amps. See WavePro Application Guide
(DET-167) for additional information.
${ }^{2}$ UL recognized component.
${ }^{3}$ Substructures for fuse rollouts include provision for keylock mounting as standard feature.

## Low Voltage Power and DC Circuit Breakers OEM Substructures and Substructure Accessories

Table B-3
Breaker Substructures Accessories
Substructure accessories shown assembled are shipped separately for field installation.

| Substructure Product Number | Accessory | Accessory Product Number | List Price GO-128W |
| :---: | :---: | :---: | :---: |
| WPS08SUBSH1 <br> WPH08SUBSH1 <br> WPX08SUBSH1 | Secondary Disconnect (bracket only) | WPSDSFSH1 | \$75.00 |
|  | Secondary Disconnect (one 36-pin block) | WPSDSUBM1 | \$350.00 |
|  | CT Hardware Mounting Kit, Metering Type (for 3 CTs) | WPCTMTG1 | \$50.00 |
|  | CT Hardware Mounting Kit, Relaying Type (for 3 CTs) | WPCTMTG2 | \$50.00 |
|  | One-stage Position Switch Kit | WPPSMTG1 | \$375.00 |
|  | Three-stage Position Switch Kit | WPPSMTG2 | \$475.00 |
|  | Shutter Kit | WPSHMTG1 | \$515.00 |
|  | Padlock Kit | Standard on breaker | - |
|  | Keylock Mounting Kit (bracket only) | WPSKLMTG1 | \$390.00 |
|  | Door Interlock Kit | WPDIMTG1 | \$125.00 |
| WPS08SUBDP1 <br> WPH08SUBDP1 <br> WPX08SUBDP1 | Secondary Disconnect (bracket only) | WPSDSFDP1 | \$75.00 |
|  | Secondary Disconnect (one 36-pin block) | WPSDSUBM1 | \$350.00 |
|  | CT Hardware Mounting Kit, Metering Type (for 3 CTs) | WPCTMTG1 | \$50.00 |
|  | CT Hardware Mounting Kit, Relaying Type (for 3CTs) | WPCTMTG2 | \$50.00 |
|  | One-stage Position Switch Kit | WPPSMTG3 | \$375.00 |
|  | Three-stage Position Switch Kit | WPPSMTG4 | \$475.00 |
|  | Shutter Kit | WPSHMTG2 | \$515.00 |
|  | Padlock Kit | Standard on breaker | - |
|  | Keylock Mounting Kit (bracket only) | WPSKLMTG1 | \$390.00 |
|  | Door Interlock Kit | WPDIMTG1 | \$125.00 |
| WPF08SUBDP1 | Secondary Disconnect (bracket only) | WPSDSFDP1 | \$75.00 |
|  | Secondary Disconnect (one 36-pin block) | WPSDSUBM1 | \$350.00 |
|  | CT Hardware Mounting Kit, Metering Type (for 3 CTs) | WPCTMTG1 | \$50.00 |
|  | CT Hardware Mounting Kit, Relay ing Type (for 3 CTs) | WPCTMTG2 | \$50.00 |
|  | One-stage Position Switch Kit | WPPSMTG5 | \$375.00 |
|  | Three-stage Position Switch Kit | WPPSMTG6 | \$475.00 |
|  | Shutter Kit | WPSHMTG3 | \$515.00 |
|  | Padlock Kit | Standard on breaker | - |
|  | Keylock Mounting Kit (bracket only) | WPSKLMTG1 | \$390.00 |
|  | Door Interlock Kit | WPDIMTG1 | \$125.00 |



Secondary disconnect blocks


Secondary disconnect bracket with disconnects installed


CT mounting hardware kit

Low Voltage Power and DC Circuit Breakers OEM Substructures and Substructure Accessories

Table B-3 (continued)
Breaker Substructures Accessories (cont.)

| Substructure Product Number | Accessory | Accessory Product Number | List Price GO-128W |
| :---: | :---: | :---: | :---: |
| WPS16SUBSH1 <br> WPH16SUBSH1 | Secondary Disconnect (bracket only) | WPSDSFSH1 | \$75.00 |
|  | Secondary Disconnect (one 36-pin block) | WPSDSUBM1 | \$350.00 |
|  | CT Hardware Mounting Kit, Metering Type (for 3 CTs) | WPCTMTG1 | \$50.00 |
|  | CT Hardware Mounting Kit, Relaying Type (for 3 CTs) | WPCTMTG2 | \$50.00 |
|  | One-stage Position Switch Kit | WPPSMTG1 | \$375.00 |
|  | Three-stage Position Switch Kit | WPPSMTG2 | \$475.00 |
|  | Shutter Kit | WPSHMTG1 | \$515.00 |
|  | Padlock Kit | Standard on breaker | - |
|  | Keylock Mounting Kit (bracket only) | WPSKLMTG1 | \$390.00 |
|  | Door Interlock Kit | WPDIMTG1 | \$125.00 |
| WPS16SUBDP1 <br> WPH16SUBDP1 | Secondary Disconnect (bracket only) | WPSDSFDP1 | \$75.00 |
|  | Secondary Disconnect (one 36-pin block) | WPSDSUBM1 | \$350.00 |
|  | CT Hardware Mounting Kit, Metering Type (for 3 CTs) | WPCTMTG1 | \$50.00 |
|  | CT Hardware Mounting Kit, Relaying Type (for 3 CTs) | WPCTMTG2 | \$50.00 |
|  | One-stage Position Switch Kit | WPPSMTG3 | \$375.00 |
|  | Three-stage Position Switch Kit | WPPSMTG4 | \$475.00 |
|  | Shutter Kit | WPSHMTG2 | \$515.00 |
|  | Padlock Kit | Standard on breaker | - |
|  | Keylock Mounting Kit (bracket only) | WPSKLMTG1 | \$390.00 |
|  | Door Interlock Kit | WPDIMTG1 | \$125.00 |
| WPF16SUBDP1 (Fuse <2500A) | Secondary Disconnect (bracket only) | WPSDSFDP1 | \$75.00 |
|  | Secondary Disconnect (one 36-pin block) | WPSDSUBM1 | \$350.00 |
|  | CT Hardware Mounting Kit, Metering Type (for 3 CTs) | WPCTMTG1 | \$50.00 |
|  | CT Hardware Mounting Kit, Relaying Type (for 3 CTs) | WPCTMTG2 | \$50.00 |
|  | One-stage Position Switch Kit | WPPSMTG5 | \$375.00 |
|  | Three-stage Position Switch Kit | WPPSMTG6 | \$475.00 |
|  | Shutter Kit | WPSHMTG3 | \$515.00 |
|  | Padlock Kit | Standard on breaker | - |
|  | Keylock Mounting Kit (bracket only) | WPSKLMTG1 | \$390.00 |
|  | Door Interlock Kit | WPDIMTG1 | \$125.00 |
| WPF16SUBDP2 <br> (Fuse = 2500A) | Secondary Disconnect (bracket only) | WPSDSFDP1 | \$75.00 |
|  | Secondary Disconnect (one 36-pin block) | WPSDSUBM1 | \$350.00 |
|  | CT Hardware Mounting Kit, Metering Type (for 3 CTs) | WPCTMTG1 | \$50.00 |
|  | CT Hardware Mounting Kit, Relaying Type (for 3 CTs) | WPCTMTG2 | \$50.00 |
|  | One-stage Position Switch Kit | WPPSMTG7 | \$375.00 |
|  | Three-stage Position Switch Kit | WPPSMTG8 | \$475.00 |
|  | Shutter Kit | Contact factory | - |
|  | Padlock Kit | Standard on breaker | - |
|  | Keylock Mounting Kit (bracket only) | WPSKLMTG1 | \$390.00 |
|  | Door Interlock Kit | WPDIMTG1 | \$125.00 |



Position switch kit


Shutter kit as installed on substructure

Table B-3. Continued
Breaker Substructures Accessories (cont.)

| Substructure Product Number | Accessory | Accessory Product Number | List Price GO-128W |
| :---: | :---: | :---: | :---: |
| WPS2OSUBSH1 WPS20SUBSH2 | Secondary Disconnect (bracket only) | WPSDSFSH1 | \$75.00 |
|  | Secondary Disconnect (one 36-pin block) | WPSDSUBM1 | \$350.00 |
|  | CT Hardware Mounting Kit, Metering Type (for 3 CTs) | WPCTMTG1 | \$50.00 |
|  | CT Hardware Mounting Kit, Relaying Type (for 3 CTs) | WPCTMTG2 | \$50.00 |
|  | One-stage Position Switch Kit | WPPSMTG1 | \$375.00 |
|  | Three-stage Position Switch Kit | WPPSMTG2 | \$475.00 |
|  | Shutter Kit | WPSHMTG1 | \$515.00 |
|  | Padlock Kit | Standard on breaker | - |
|  | Keylock Mounting Kit (bracket only) | WPSKLMTG1 | \$390.00 |
|  | Door Interlock Kit | WPDIMTG1 | \$125.00 |
| WPS20SUBDP1 WPS20SUBDP2 | Secondary Disconnect (bracket only) | WPSDSFDP1 | \$75.00 |
|  | Secondary Disconnect (one 36-pin block) | WPSDSUBM1 | \$350.00 |
|  | CT Hardware Mounting Kit, Metering Type (for 3 CTs) | WPCTM1G1 | \$50.00 |
|  | CT Hardware Mounting Kit, Relaying Type (for 3 CTs) | WPCTMTG2 | \$50.00 |
|  | One-stage Position Switch Kit | WPPSMTG3 | \$375.00 |
|  | Three-stage Position Switch Kit | WPPSMTG4 | \$475.00 |
|  | Shutter Kit | WPSHMTG2 | \$515.00 |
|  | Padlock Kit | Standard on breaker | - |
|  | Keylock Mounting Kit (bracket only) | WPSKLMTG1 | \$390.00 |
|  | Door Interlock Kit | WPDIMTG1 | \$125.00 |
| WPS32SUBSH1 <br> WPS32SUBSH2 <br> WPH32SUBSH1 <br> WPX32SUBSH1 | Secondary Disconnect (bracket only) | WPSDLFSH1 | \$75.00 |
|  | Secondary Disconnect (one 36-pin block) | WPSDSUBM2 | \$375.00 |
|  | CT Hardware Mounting Kit, Metering Type (for 3 CTs) | WPCTMTG1 | \$50.00 |
|  | CT Hardware Mounting Kit, Relaying Type (for 3 CTs) | WPCTMTG2 | \$50.00 |
|  | One-stage Position Switch Kit | WPPSMTG9 | \$375.00 |
|  | Three-stage Position Switch Kit | WPPSMTG10 | \$475.00 |
|  | Shutter Kit | WPSHMTG4 | \$575.00 |
|  | Padlock Kit | WPPKMTG1 | \$175.00 |
|  | Keylock Mounting Kit (bracket only) | WPSKLMTG2 | \$475.00 |
|  | Door Interlock Kit | WPDIMTG2 | \$155.00 |
| WPS4OSUBSH1 <br> WPS4OSUBSH2 <br> WPX4OSUBSH1 | Secondary Disconnect (bracket only) | WPSDLFSH1 | \$75.00 |
|  | Secondary Disconnect (one 36-pin block) | WPSDSUBM2 | \$375.00 |
|  | CT Hardware Mounting Kit, Metering Type (for 3 CTs) | WPCTMTG1 | \$50.00 |
|  | CT Hardware Mounting Kit, Relaying Type (for 3 CTs) | WPCTMTG2 | \$50.00 |
|  | One-stage Position Switch Kit | WPPSMTG9 | \$375.00 |
|  | Three-stage Position Switch Kit | WPPSMTG10 | \$475.00 |
|  | Shutter Kit | WPSHMTG4 | \$575.00 |
|  | Padlock Kit | WPPKMTG1 | \$175.00 |
|  | Keylock Mounting Kit (bracket only) | WPSKLMTG2 | \$475.00 |
|  | Door Interlock Kit | WPDIMTG2 | \$155.00 |
| WPS50SUBDP1 WPS50SUBDP2 WPX50SUBDP1 | Secondary Disconnect (bracket only) | WPSDLFDP1 | \$75.00 |
|  | Secondary Disconnect (one 36-pin block) | WPSDSUBM2 | \$375.00 |
|  | CT Hardware Mounting Kit, Metering Type (for 3 CTs) | WPCTMTG3 | \$50.00 |
|  | CT Hardware Mounting Kit, Relaying Type (for 3 CTs) | Contact factory | - |
|  | One-stage Position Switch Kit | WPPSMTG9 | \$375.00 |
|  | Three-stage Position Switch Kit | WPPSMTG10 | \$475.00 |
|  | Shutter Kit | WPSHMTG5 | \$575.00 |
|  | Padlock Kit | WPPKMTG2 | \$175.00 |
|  | Keylock Mounting Kit (bracket only) | WPSKLMTG3 | \$475.00 |
|  | Door Interlock Kit | WPDIMTG3 | \$180.00 |



Padlock kit (standard on small frame breakers, optional on large frame breakers)


Keylock mounting kit bracket


Table B-4.
Fuse Rollout Substructure Accessories

| Substructure Product Number | Accessory | Accessory Product No. | List Price GO-128W |
| :---: | :---: | :---: | :---: |
| WP32FRSUBSH1 WP4OFRSUBSH1 | Secondary Disconnect (bracket only) | WPSDLFSH1 | \$75.00 |
|  | Secondary Disconnect (one 36-pin block) | WPSDSUBM2 | \$375.00 |
|  | Metering CT Hardware Mounting Kit (for three CTs) | WPCTMTG1 | \$50.00 |
|  | Relaying CT Hardware Mounting Kit (for three CTs) | WPCTMTG2 | \$50.00 |
|  | One-stage Position Switch Kit | WPPSMTG9 | \$375.00 |
|  | Three-stage Position Switch Kit | WPPSMTG10 | \$475.00 |
|  | Shutter Kit | WPSHMTG4 | \$575.00 |
|  | Padlock Kit | WPPKMTG1 | \$175.00 |
|  | Keylock Mounting Kit (bracket only) | Part of substructure | - |
|  | Door Interlock Kit | WPDIMTG2 | \$155.00 |
| WP50FRSUBSH1 | Secondary Disconnect (bracket only) | WPSDLFDP1 | \$75.00 |
|  | Secondary Disconnect (one 36-pin block) | WPSDSUBM2 | \$375.00 |
|  | Metering CT Hardware Mounting Kit (for three CTs) | WPCTMTG3 | \$50.00 |
|  | Relaying CT Hardware Mounting Kit (for three CTs) | Not available | - |
|  | One-stage Position Switch Kit | WPPSMTG9 | \$375.00 |
|  | Three-stage Position Switch Kit | WPPSMTG10 | \$475.00 |
|  | Shutter Kit | WPSHMTG5 | \$575.00 |
|  | Padlock Kit | WPPKMTG2 | \$175.00 |
|  | Keylock Mounting Kit (bracket only) | Part of substructure | - |
|  | Door Interlock Kit | WPDIMTG3 | \$180.00 |

Table B-5.
Neutral Current Transformers (required with 4-wire ground fault).

| Frame (Amps) | Circuit Breaker Sensor <br> Amps Rating | Neutral Sensor <br> Rating (Amps) | Product Number | List Price <br> GO-128C |
| :---: | :---: | :---: | :---: | :---: |
| 800 | 150 | $100-300$ | TSVG303B | $\$ 805.00$ |
|  | 400,800 | $300-800$ | TSVG508B | $\$ 805.00$ |
| 1600 | 800 | $300-800$ | TSVG508B | $\$ 805.00$ |
|  | 1600 | $600-1600$ | TSVG516B | $\$ 805.00$ |
| 3200 | 2000 | $800-2000$ | TSVG620B | $\$ 1417.00$ |
| 4000 | 3200 | $1200-3200$ | TSVG832B | $\$ 1962.00$ |
| 5000 | 4000 | $1600-4000$ | TSVG94OB | $\$ 1962.00$ |

Table B-6.
Static Time Delays for Undervoltage Option

| Voltage | Static Time Delay Product No. ${ }^{1}$ | List Price <br> GO-128W |
| :---: | :---: | :---: |
| 125 Vdc | TAKYUVT1 | $\$ 1091.00$ |
| 250 Vdc | TAKYUVT2 | $\$ 1091.00$ |
| $208 \mathrm{Vac}(50 / 60 \mathrm{~Hz})$ | TAKYUVT5 | $\$ 1091.00$ |
| $240 \mathrm{Vac}(50 / 60 \mathrm{~Hz})$ | TAKYUVT4 | $\$ 1091.00$ |

${ }^{1}$ Must be ordered in conjunction with "Undervoltage with Time Delay" option in Step 6 on page 6-14.
Table B-7.
Miscellaneous Accessories

| Accessory | Product Number | List Price GO-128W |
| :---: | :---: | :---: |
| Breaker Racking Handle-Std 30" Long - Non Swivel | 0324B4721G001 | \$175.00 |
| Breaker Racking Handle-64" Long - Non Swivel | $0324 B 4721 \mathrm{G002}$ | \$240.00 |
| Breaker Racking Handle-30" Long - Swivel Socket | $0324 B 4724 G 001$ | \$250.00 |
| Maintenance Closing Handle | 568B386G1 | \$325.00 |
| Small Frame Lifting Assembly, WP08, 16, 20 | $0324 B 45516001$ | \$85.00 |
| Large Frame Lifting Assembly, WP32, 40 | 0247B8961G001 | \$95.00 |
| Extra Large Frame Lifting Assembly, WP50 | 0247B89616003 | \$105.00 |
| Fuse Rollout Out Element Lifting Assembly, 3200A \& 4000A | 0247B8961G004 | \$95.00 |
| Fuse Rollout Element Lifting Assembly, 5000A | 0247B8961G005 | \$105.00 |
| WavePro Breaker Maintenance Video (Approx. 40 minutes, VHS format) ${ }^{2}$ | DEV-042 | \$2500.00 |

Table B-8.
POWER LEADER® Power Supply
The POWER LEADER ${ }^{\oplus}$ power supply provides 24 Vdc control power to MicroVersaTrip ${ }^{\oplus}$ 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 <br> GO-104A |
| :---: | :---: | :---: | :---: |
| 1.5A power supply. <br> Maximum wire length from power supply <br> to trip device is 100 feet. A maximum of 45 trip | PLPS4G01 | $\$ 1250.00$ |
| (Not included with power supply) |  |  |

## Table B-9.

POWER LEADER ${ }^{\oplus}$ Voltage Conditioner
Conditions and scales 120Vac to 1.76 Vac 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.

|  |  | List Price <br> Description | Product Number |
| :---: | :---: | :---: | :---: |

Table B-10.
MicroVersaTrip ${ }^{\oplus}$ Portable Power Pack
The MicroVersaTrip ${ }^{\otimes}$ 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 |  |
| :---: | :---: | :---: |
| MicroVersaTrip ${ }^{\oplus}$ Portable Power Pack | TVPBP | $\$ 75.00$ |

Table B-11.
MicroVersaTrip ${ }^{\oplus}$ Rating Plug Removal Tool

| Description | Product Number |
| :---: | :---: | :---: |
| MicroVersaTrip ${ }^{\text {R }}$ Rating Plug Removal Tool | TRTOOL |
| GO-135S |  |

Table B-12.
GE Trip Unit Portable Test Set
This portable, battery- or ac-powered test kit allows for self-tests and functioning trip/no trip tests on Power+, MicroVersaTrip® Plus and MicroVersaTrip ${ }^{\oplus}$ PM trip units (excluding 4 - or 9 -function MicroVersaTrip ${ }^{\oplus}$ trip units). It can also defeat the ground fault function and be used in conjunction with high current test equipment. The interface is via a jack on the front of the trip units, and tests can be conducted with the breaker in service. The Test Set uses six rechargeable nickel-cadmium or standard alkaline D cell batteries (not included), or it can be powered by a 120Vac source.

| Description | Product Number | List Price <br> GO-245B |
| :---: | :---: | :---: |
| Portable Test Set that may also be used to <br> temporarily defeat ground fault function when <br> using primary injection (high current test set). | TVRMS2 | $\$ 3000.00$ |



GE Trip Unit Portable Test Set OEM Substructures and Substructure Accessories

Table B-13.
Metering and Relaying Current Transformers for 800-5000A Substructures, $600 \mathrm{Vac}, 50 / 60 \mathrm{~Hz}$

| Breaker Frame Size | Ampere Ratio ():5 | Metering Product Number | List Price GO-128 | Metering \& Relaying Product Number | List Price GO-128 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { 800A } \\ & \text { 1600A } \\ & 2000 \mathrm{~A} \end{aligned}$ | 100 | 75C149640P001 | \$375.00 | 75C149640P025 | \$500.00 |
|  | 150 | 75C149640P002 |  | 75C149640P026 |  |
|  | 200 | 75C149640P003 |  | 75C149640P027 |  |
|  | 250 | 75C149640P004 |  | 75C149640P028 |  |
|  | 300 | 75C149640P005 |  | 75C149640P029 |  |
|  | 400 | 75C149640P006 |  | 75C149640P030 |  |
|  | 500 | 75C149640P007 |  | 75C149640P031 |  |
|  | 600 | 75C149640P008 |  | 75C149640P032 |  |
|  | 800 | 75C149640P010 |  | 75C149640P034 |  |
|  | 1000 | 75C149640P011 | \$425.00 | 75C149640P035 | \$500.00 |
|  | 1200 | 75C149640P012 |  | 75C149640P036 |  |
|  | 1500 | 75C149640P013 |  | 75C149640P037 |  |
|  | 1600 | 75C149640P014 |  | 75C149640P038 |  |
|  | 2000 | 75C149640P015 |  | 75C149640P039 |  |
|  | 2500 | 75C149640P016 |  | 75C149640P040 |  |
| $\begin{aligned} & 3200 \mathrm{~A} \\ & 4000 \mathrm{~A} \end{aligned}$ | 2000 | 75C149640P020 | \$475.00 | 75C149640P044 | \$550.00 |
|  | 2500 | 75C149640P021 |  | 75C149640P045 |  |
|  | 3000 | 75C149640P022 |  | 75C149640P046 |  |
|  | 3200 | 75C149640P023 |  | 75C149640P047 |  |
|  | 4000 | 75C149640P024 |  | 75C149640P048 |  |
| 5000A | 5000 | 75C149640P049 | \$700.00 | Consult Factory |  |

## 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 electromechanical or solid-state trip unit to today's latest electronic, digital technology-including the addition of metering, protective relay, 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
-Test jack for TVRMS2 portable trip unit test kit
-Eliminate costly downtime due to nuisance tripping

- Improved power system coordination and protection
-Extend life and function of existing breakers and low voltage equipment


## MicroVersaTrip ${ }^{\oplus}$ Plus and PM Conversion Kits

-True RMS sensing with a sampling rate of 64 samples per cycle for accurate waveform measurements through the 31st har-monic-provides superior protection of systems with AC and DC variable speed drives, rectifiers, induction heaters and other loads that contribute to non-sinusoidal (high harmonic) current waveforms
-Long time pickup and delay, instantaneous pickup - standard
-High-visibility Liquid Crystal Display with phase selectable ammeter and trip targets
-Trip settings and trip target information stored in non-volatile memory
-On-board lithium battery (field replaceable) for cold setup and reading trip targets
-Optional short time pickup and delay, ground fault pickup and delay, high range instantaneous
-Optional switchable short time, instantaneous, and ground fault functions
-Optional communications, expanded metering, and protective relaying functions (PM trip units)
-Easy field upgrades for interface with GE's Power Management Control System (PMCS)
-Safe, convenient, closed-door local metering via the optional Remote Display

## ProTrip ${ }^{\text {TM }}$ 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


AKU-2A-25-1 breaker with ProTrip ${ }^{\text {TM }}$ Complete Trip System ProTrip ${ }^{T M}$ complete trip systems come with everything you need:

1 - trip unit, 2 - current sensors, 3 - flux shifter, 4 - wiring harness and all required hardware


ProTrip ${ }^{\text {TM }}$ Conversion Kits

## Everything You Need in One Package

ProTrip™, MicroVersaTrip ${ }^{\oplus}$ Plus, and MicroVersaTrip® ${ }^{\oplus}$ PM 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 for GE, I-T-E, Westinghouse, Allis-Chalmers Circuit Breakers

MicroVersaTrip ${ }^{\text {® }}$ PM Conversion Kits-
Power Management Made Easy
The MicroVersaTrip ${ }^{\oplus}$ PM trip unit's standard communication port opens a new world of information. When connected to a GE Power Management system, it gives you the power to increase productivity and reduce costs, while meeting all your electrical system monitoring needs.

The POWER LEADER ${ }^{\circledR}$ Modbus Concentrator can be connected to MicroVersaTrip ${ }^{\ominus}$ PM trip units, allowing communication with the GE Power Management Control System (PMCS) software. With PMCS, you'll see how easy it is to:
-View custom metering screens and CAD drawings of our system
-Analyze energy consumption and power factor trends to minimize utility demand and PF charges or provide cost allocations
-Collect precise sequence of event and alarm information to speed diagnosis and minimize downtime
-Utilize alarm and event logs to assist with maintenance interval planning
-Analyze system harmonics (with data from the POWER LEADER ${ }^{\circledR}$ family of meters)
-Use the POWER LEADER® Modbus Concentrator to communicate with MicroVersaTrip ${ }^{\oplus}$ PM trip units on Spectra Series molded case circuit breakers, Power Break II insulated case circuit breakers, and AKR/WavePro power circuit breakers (refer to BuyLog ${ }^{\circledR}$ Section 18 for network architecture)
-Communicate with Modbus RTU-supported electronic meters and relays

## Additional Features

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


Refer to BuyLog ${ }^{\circledR}$ Section 18 for additional Power Management components not supplied with the MicroVersaTrip ${ }^{\oplus}$ PM conversion kits lvoltage transformers, voltage conditioners, 24 VDC power supplies, Modbus Concentrator, interconnection cables, and PMCS software)

Reference Publications

| GE MVT Plus and PM Conversion Kits | DET-066 |
| :--- | :--- |
| I-T-E MVT Plus and PM Conversion Kits | DET-067 |
| Westinghouse MVT Plus and PM Conversion Kits | DET-093 |
| Allis-Chalmers MVT Plus and PM Conversion Kits | DET-226 |
| GE ProTripTMTM Conversion Kits | DET-228 |
| I-T-E ProTripTMTM Conversion Kits | DET-229 |
| Westinghouse ProTripTM Conversion Kits | DET-230 |
| Allis-Chalmers ProTripTM Conversion Kits | DET-231 |

For GE Circuit Breakers

Product Number Structure

|  | PK | 3 | $F$ | 08 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Breaker |  |  |  | Sensor Rating | $\begin{aligned} & \text { Trip Functions } \\ & \hline \text { LSIGX- } 08 \end{aligned}$ |  |  |  |
| AK-1-15 | PK115 |  |  |  |  |  |  |
| AK-15 | PKO15 ${ }^{1}$ |  |  | Trip Unit Functions |  |  |  |
| AK-1-25 | PK125 |  |  |  |  |  |  |  |  |
| AK-25 | PK025 |  |  | 150A- 01 | LSIGX- Long Time, Short Time/INST. |  |  |  |
| AKU-25 | PKO25 |  |  |  |  | and Switchable Ground Fault (off) |  |
| AK-1-50 | PK150 |  |  | 600A- 06 |  |  | Not Approved for a UL Listed Breaker |  |
| AK-50 |  |  |  | 800A- 08 |  |  |  |  |
| AKU-50 ${ }^{2}$ |  |  |  | 1600A-16 |  |  |  |  |
| AKT-50 | PKO50 ${ }^{1}$ |  |  | 2000A- 20 |  |  |  |  |
| AKS-50 |  |  |  |  |  |  |  |  |
| AKSU-50 ${ }^{2}$ |  |  |  | 3000A- 30 |  |  |  |  |
| AKST-50 |  |  |  | Sensor Rating Selection |  |  |  |  |
| AK-75 ${ }^{3}$ | PKO75 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |
| AK-100 ${ }^{3}$ | PKO10 ${ }^{3}$ |  |  |  | Frame Breaker Product Numbers Sensors |  |  |  |
|  |  |  |  |  | 225 | AK-1-15, AK-15 |  | 150A, 225A |
| Model |  |  |  |  | 600 | AK-1-25, AK-25, AKU-25 |  | 150A, 225A, 600A |
| Generation-D |  |  |  |  | 1600 | $\begin{aligned} & \text { AK-1-50, AK-50, AKU-50, } \\ & \text { AKS-50, AKSU-50 } \end{aligned}$ |  | 800A, 1600A |
| Wiring |  |  |  |  | 2000 | AKT-50, AKST-50 |  | 2000A |
| 3 Wire-3 |  |  |  |  | 3000 | AK-75 |  | 3000A |
| 4 Wire-4 |  |  |  |  | 4000 | AK-100 |  | 4000A |

Sensor Type
Fixed CTs-F
${ }^{1}$ For converting AK-2 version breakers and newer, not applicable for AK-1 or AKR
${ }^{2}$ 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
${ }^{3}$ Contact the factory for stationary breaker applications
ProTrip ${ }^{\text {TM }}$ 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 | PK015D4F0108 | \$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 | PK075D3F3008 | \$2800.00 |
| 3000 | AK-75 | 4 Wire | 3000A | PKO75D4F3008 | \$3025.00 |
| 4000 | AK-100 | 3 Wire | 4000A | PKO10D3F4008 | \$3050.00 |
| 4000 | AK-100 | 4 Wire | 4000A | PKO10D4F4008 | \$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 6-30.

Product Number Structure


Sensor Type
Fixed CTs-F
${ }^{1}$ Applicable to breakers originally equipped with either electro-mechanical trip devices or with solid state trip devices (" S " version breakers).
${ }^{2}$ Only applicable to breakers originally equipped with rectangular shaped primary disconnect assemblies.
${ }^{3}$ Only applicable to breakers originally equipped with circular shaped primary disconnect assemblies.

ProTrip ${ }^{\text {TM }}$ 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 | PIK1BD3F0808 | \$2700.00 |
| 1600 | K1600 (black), KDON1600 (black) | 3 Wire | 1600A | PIK1BD3F1608 | \$2700.00 |
| 1600 | K1600 (black), KDON1600 (black) | 4 Wire | 800A | PIK1BD4F0808 | \$2925.00 |
| 1600 | K1600 (black), KDON1600 (black) | 4 Wire | 1600A | PIK1BD4F1608 | \$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 6-30.
*I-T-E is a registered trademark of Siemens Energy and Automation, Inc.

## ProTrip ${ }^{\text {M }}$ Trip Unit Conversion Kit Selection Guide <br> For *Allis-Chalmers Circuit Breakers

Product Number Structure


ProTrip ${ }^{\text {TM }}$ 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 | 225 A | 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 | 225 A | 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 6-30.


## ProTrip ${ }^{\text {TM }}$ 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 6-30.
*Westinghouse is a trademark of Westinghouse Electric Corporation.

| P6 | Publications and Reference: See Section 22 for a <br> complete list of additional product-related publications |  |  |
| :--- | :--- | :--- | :--- |
| Rev. $1 / 08$ <br> Prices and data subject <br> to change without notice | www.geelectrical.com | BuyLog ${ }^{\circledR}$ Catalog | $6-29$ |

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

Reference Publications
ProTrip ${ }^{\text {TM }}$ Trip Unit Conversion Kits for
GE Power Circuit Breakers - Fact Sheet
ProTrip ${ }^{\text {TM }}$ Trip Unit Conversion Kits for
*Westinghouse Power Circuit Breakers - Fact Sheet ProTrip ${ }^{\text {TM }}$ Trip Unit Conversion Kits for
*Allis-Chalmers Power Circuit Breakers - Fact Sheet
ProTrip™ Trip Unit Conversion Kits for
*।-T-E Power Circuit Breakers - Fact Sheet DeT-231 DET-231
ating 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 ${ }^{1}$ | \$149.00 |
| 225\|600|800 | 225 | 150 | 75-165 | PT225C150GFD | \$149.00 |
| 225\|600|800 | 225 | 225 | 113-248 | PT225C225GFD1 | \$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 | PT6C600GFD1 | \$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 ${ }^{1}$ | \$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 ${ }^{1}$ | \$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 ${ }^{1}$ | \$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 ${ }^{1}$ | \$149.00 |

${ }^{1}$ 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.


Price Selection
Select the desired product number from the chart above. Match the product prefix with the product numbers in the first column of the 3 -wire or 4 -wire table. Select the options column that matches the product suffix chosen. The list price is found in the intersecting box.

## Kits Without Sensors

For kits ordered without sensors, deduct $\$ 450.00$ from the list price of the kit with sensors. Please refer to the sensor rating column above for the appropriate " $X$ " sensor code.

MicroVersaTrip ${ }^{\oplus}$ Trip Unit Conversion Kits for 3-Phase, 3-Wire, List Price, GO-104B

| Product Number | MicroVersaTrip ${ }^{\text {® }}$ Plus |  |  |  |  |  |  |  |  |  | MicroVersaTrip ${ }^{\text {® }}$ PM Metering \& Communication |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 11 | 12 | Number | 02M | 03M | 04M | 05M | 06M | 07M | 08M | 11M | 12M |
| AK015C3F01 | \$2920 | \$3350 | \$3040 | \$3470 | \$3040 | \$3470 | \$4015 | $\$ 3590$ <br> AKR3S KITS ONLY | $\begin{aligned} & \$ 3890 \\ & \text { AKR3S } \\ & \text { KITS } \\ & \text { ONLY } \end{aligned}$ | AKO15C3F01 | \$4420 | \$4850 | \$4540 | \$4970 | \$4540 | \$4970 | \$5515 | \$5090 <br> AKR3S <br> KITS <br> ONLY | $\begin{aligned} & \$ 5390 \\ & \text { AKR3S } \\ & \text { KITS } \\ & \text { ONLY } \end{aligned}$ |
| AKO15C3F02 |  |  |  |  |  |  |  |  |  | AK015C3F02 |  |  |  |  |  |  |  |  |  |
| AK115C3F01 |  |  |  |  |  |  |  |  |  | AK115C3F01 |  |  |  |  |  |  |  |  |  |
| AK115C3F02 |  |  |  |  |  |  |  |  |  | AK115C3F02 |  |  |  |  |  |  |  |  |  |
| AK025C3F02 |  |  |  |  |  |  |  |  |  | AKO25C3F02 |  |  |  |  |  |  |  |  |  |
| AKO25C3F06 |  |  |  |  |  |  |  |  |  | AKO25C3F06 |  |  |  |  |  |  |  |  |  |
| AK125C3F02 |  |  |  |  |  |  |  |  |  | AK125C3F02 |  |  |  |  |  |  |  |  |  |
| AK125C3F06 |  |  |  |  |  |  |  |  |  | AK125C3F06 |  |  |  |  |  |  |  |  |  |
| AKR30C3F01 | \$3070 | \$3500 | \$3190 | \$3620 | \$3190 | \$3620 | \$4165 | - | - | AKR30C3F01 | \$4570 | \$5000 | \$4690 | \$5120 | \$4690 | \$5120 | \$5665 | - | - |
| AKR30C3F04 |  |  |  |  |  |  |  |  |  | AKR30C3F04 |  |  |  |  |  |  |  |  |  |
| AKR30C3F08 |  |  |  |  |  |  |  |  |  | AKR30C3F08 |  |  |  |  |  |  |  |  |  |
| AKR3SC3F01 |  |  |  |  |  |  |  |  |  | AKR3SC3F01 |  |  |  |  |  |  |  |  |  |
| AKR3SC3F04 |  |  |  |  |  |  |  |  |  | AKR3SC3F04 |  |  |  |  |  |  |  |  |  |
| AKR3SC3F08 |  |  |  |  |  |  |  |  |  | AKR3SC3F08 |  |  |  |  |  |  |  |  |  |
| AKR3SC3F08 |  |  |  |  |  |  |  |  |  | AKR3SC3F08 |  |  |  |  |  |  |  |  |  |
| AK150CF16 |  |  |  |  |  |  |  |  |  | AK150CF16 |  |  |  |  |  |  |  |  |  |
| AK150C3F16 |  |  |  |  |  |  |  |  |  | AK150C3F16 |  |  |  |  |  |  |  |  |  |
| AKO50C3F08 |  |  |  |  |  |  |  |  |  | AKO50C3F08 |  |  |  |  |  |  |  |  |  |
| AK050C3F16 |  |  |  |  |  |  |  |  |  | AKO50C3F16 |  |  |  |  |  |  |  |  |  |
| AKR50C3F08 |  |  |  |  |  |  |  |  |  | AKR50C3F08 |  |  |  |  |  |  |  |  |  |
| AKR50C3F16 |  |  |  |  |  |  |  |  |  | AKR50C3F16 |  |  |  |  |  |  |  |  |  |
| AKO50C3F20 | \$3220 | \$3650 | \$3340 | \$3770 | \$3340 | \$3770 | \$4315 | - | - | AKO50C3F20 | \$4720 | \$5150 | \$4840 | \$5270 | \$4840 | \$5270 | \$5815 | - | - |
| AKR50C3F20 |  |  |  |  |  |  |  |  |  | AKR50C3F20 |  |  |  |  |  |  |  |  |  |
| AK075C3F30 |  |  |  |  |  |  |  |  |  | AK075C3F30 |  |  |  |  |  |  |  |  |  |
| AKR75C3F32 |  |  |  |  |  |  |  |  |  | AKR75C3F32 |  |  |  |  |  |  |  |  |  |
| AKO10C3F40 |  |  |  |  |  |  |  |  |  | AKO10C3F40 |  |  |  |  |  |  |  |  |  |
| AKR10C3F40 |  |  |  |  |  |  |  |  |  | AKR10C3F40 |  |  |  |  |  |  |  |  |  |
| AKW10C3F40 |  |  |  |  |  |  |  |  |  | AKW10C3F40 |  |  |  |  |  |  |  |  |  |

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 6-39.

## For GE Power Circuit Breakers

MicroVersaTrip ${ }^{\oplus}$ Conversion Kits for 3-Phase, 3-Wire

|  | MicroVersaTrip ${ }^{\star}$ PM Metering, Communication \& Protective Relay List Price, GO-104B |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number | 02PM | 03PM | 04PM | 05PM | 06PM | 07PM | 08PM | 11PM | 12PM |
| AK015C3F01 | \$5120 | \$5550 | \$5240 | \$5670 | \$5240 | \$5670 | \$6215 | $\begin{aligned} & \$ 5790 \\ & \text { AKR3S } \\ & \text { KITS } \\ & \text { ONLY } \end{aligned}$ | $\$ 6090$ <br> AKR3S KITS ONLY |
| AK015C3F02 |  |  |  |  |  |  |  |  |  |
| AK115C3F01 |  |  |  |  |  |  |  |  |  |
| AK115C3F02 |  |  |  |  |  |  |  |  |  |
| AK025C3F02 |  |  |  |  |  |  |  |  |  |
| AKO25C3F06 |  |  |  |  |  |  |  |  |  |
| AK125C3F02 |  |  |  |  |  |  |  |  |  |
| AK125C3F06 |  |  |  |  |  |  |  |  |  |
| AKR30C3F01 | \$5270 | \$5700 | \$5390 | \$5820 | \$5390 | \$5820 | \$6365 | - | - |
| AKR30C3F04 |  |  |  |  |  |  |  |  |  |
| AKR30C3F08 |  |  |  |  |  |  |  |  |  |
| AKR3SC3F01 |  |  |  |  |  |  |  |  |  |
| AKR3SC3F04 |  |  |  |  |  |  |  |  |  |
| AKR3SC3F08 |  |  |  |  |  |  |  |  |  |
| AKR3SC3F08 |  |  |  |  |  |  |  |  |  |
| AK150CF16 |  |  |  |  |  |  |  |  |  |
| AK150C3F16 |  |  |  |  |  |  |  |  |  |
| AK050C3F08 |  |  |  |  |  |  |  |  |  |
| AK050C3F16 |  |  |  |  |  |  |  |  |  |
| AKR50C3F08 |  |  |  |  |  |  |  |  |  |
| AKR50C3F16 |  |  |  |  |  |  |  |  |  |
| AK050C3F20 | \$5420 | \$5850 | \$5540 | \$5970 | \$5540 | \$5970 | \$6515 | - | - |
| AKR50C3F20 |  |  |  |  |  |  |  |  |  |
| AK075C3F30 |  |  |  |  |  |  |  |  |  |
| AKR75C3F32 |  |  |  |  |  |  |  |  |  |
| AKO10C3F40 |  |  |  |  |  |  |  |  |  |
| AKR10C3F40 |  |  |  |  |  |  |  |  |  |
| AKW10C3F40 |  |  |  |  |  |  |  |  |  |

MicroVersaTrip ${ }^{\oplus}$ Conversion Kits for 3-Phase, 4-Wire

| Product Number | MicroVersaTrip ${ }^{\text {® }}$ Plus List Price, GO-104B |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 03 | 05 | 07 | 08 | 12 |
| AKO15C4F01 | \$3575 | \$3695 | \$3695 | \$4240 | \$4545 <br> AKR3S KITS ONLY |
| AK015C4F02 |  |  |  |  |  |
| AK115C4F01 |  |  |  |  |  |
| AK115C4F02 |  |  |  |  |  |
| AKO25C4F02 |  |  |  |  |  |
| AKO25C4F06 |  |  |  |  |  |
| AK125C4F02 |  |  |  |  |  |
| AK125C4F06 |  |  |  |  |  |
| AKR30C4F01 | \$3725 | \$3845 | \$3845 | \$4390 | - |
| AKR30C4F04 |  |  |  |  |  |
| AKR30C4F08 |  |  |  |  |  |
| AKR3SC4F01 |  |  |  |  |  |
| AKR3SC4F04 |  |  |  |  |  |
| AKR3SC4F08 |  |  |  |  |  |
| AK150C4F08 |  |  |  |  |  |
| AK150C4F16 |  |  |  |  |  |
| AK050C4F08 |  |  |  |  |  |
| AK050C4F16 |  |  |  |  |  |
| AKR50C4F08 |  |  |  |  |  |
| AKR50C4F16 |  |  |  |  |  |
| AK050C4F20 | \$3875 | \$3995 | \$3995 | \$4540 | - |
| AKR50C4F20 |  |  |  |  |  |
| AK075C4F30 |  |  |  |  |  |
| AKR75C4F32 |  |  |  |  |  |
| AKO10C4F40 |  |  |  |  |  |
| AKR10C4F40 |  |  |  |  |  |
| AKW10C4F40 |  |  |  |  |  |

MicroVersaTrip ${ }^{\oplus}$ Conversion Kits for 3-Phase, 4-Wire

|  | MicroVersaTrip ${ }^{\oplus}$ PM Metering \& Communication List Price, GO-104B |  |  |  |  | Product Number | MicroVersaTrip ${ }^{\oplus}$ PM Metering, Communication \& Protective Relay List Price, GO-104B |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number | 03M | 05M | 07M | 08M | 12M |  | 03PM | 05PM | 07PM | 08PM | 12PM |
| AKO15C4F01 | \$5075 | \$5195 | \$5195 | \$5740 | $\begin{aligned} & \$ 6045 \\ & \text { AKR3S } \\ & \text { KITS } \\ & \text { ONLY } \end{aligned}$ | AK015C4F01 | \$5775 | \$5895 | \$5895 | \$6440 | $\begin{aligned} & \$ 6745 \\ & \text { AKR3S } \\ & \text { KITS } \\ & \text { ONLY } \end{aligned}$ |
| AK015C4F02 |  |  |  |  |  | AK015C4F02 |  |  |  |  |  |
| AK115C4F01 |  |  |  |  |  | AK115C4F01 |  |  |  |  |  |
| AK115C4F02 |  |  |  |  |  | AK115C4F02 |  |  |  |  |  |
| AK025C4F02 |  |  |  |  |  | AKO25C4F02 |  |  |  |  |  |
| AK025C4F06 |  |  |  |  |  | AK025C4F06 |  |  |  |  |  |
| AK125C4F02 |  |  |  |  |  | AK125C4F02 |  |  |  |  |  |
| AK125C4F06 |  |  |  |  |  | AK125C4F06 |  |  |  |  |  |
| AKR30C4F01 | \$5225 | \$5345 | \$5345 | \$5890 | - | AKR30C4F01 | \$5925 | \$6045 | \$6045 | \$6590 | - |
| AKR30C4F04 |  |  |  |  |  | AKR30C4F04 |  |  |  |  |  |
| AKR30C4F08 |  |  |  |  |  | AKR30C4F08 |  |  |  |  |  |
| AKR3SC4F01 |  |  |  |  |  | AKR3SC4F01 |  |  |  |  |  |
| AKR3SC4F04 |  |  |  |  |  | AKR3SC4F04 |  |  |  |  |  |
| AKR3SC4F08 |  |  |  |  |  | AKR3SC4F08 |  |  |  |  |  |
| AK150C4F08 |  |  |  |  |  | AK150C4F08 |  |  |  |  |  |
| AK150C4F16 |  |  |  |  |  | AK150C4F16 |  |  |  |  |  |
| AK050C4F08 |  |  |  |  |  | AKO50C4F08 |  |  |  |  |  |
| AK050C4F16 |  |  |  |  |  | AK050C4F16 |  |  |  |  |  |
| AKR50C4F08 |  |  |  |  |  | AKR50C4F08 |  |  |  |  |  |
| AKR50C4F16 |  |  |  |  |  | AKR50C4F16 |  |  |  |  |  |
| AK050C4F20 | \$5375 | \$5495 | \$5495 | \$6040 | - | AKO50C4F20 | \$6075 | \$6195 | \$6195 | \$6740 | - |
| AKR50C4F20 |  |  |  |  |  | AKR50C4F20 |  |  |  |  |  |
| AK075C4F30 |  |  |  |  |  | AK075C4F30 |  |  |  |  |  |
| AKR75C4F32 |  |  |  |  |  | AKR75C4F32 |  |  |  |  |  |
| AKO10C4F40 |  |  |  |  |  | AKO10C4F40 |  |  |  |  |  |
| AKR10C4F40 |  |  |  |  |  | AKR10C4F40 |  |  |  |  |  |
| AKW10C4F40 |  |  |  |  |  | AKW10C4F40 |  |  |  |  |  |

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 6-39.

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

Product Number Structure


MicroVersaTrip ${ }^{\oplus}$ Trip Unit Conversion Kits for *I-T-E Power Circuit Breakers, 3-Phase, 3-Wire

| Product Number | MicroVersaTrip* Plus List Price, GO-104B |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| AIKA2C3F01 | \$2820 | \$3250 | \$2940 | \$3370 | \$2940 | \$3370 | \$3915 |
| AIKA2C3F02 |  |  |  |  |  |  |  |
| AlK22C3F01 |  |  |  |  |  |  |  |
| AlK22C3F02 |  |  |  |  |  |  |  |
| AlkBSC3F02 |  |  |  |  |  |  |  |
| AIKBSC3F06 |  |  |  |  |  |  |  |
| AlKBXC3F02 |  |  |  |  |  |  |  |
| AIKBXC3F06 |  |  |  |  |  |  |  |
| AIKBMC3F02 |  |  |  |  |  |  |  |
| AIKBMC3F06 |  |  |  |  |  |  |  |
| AlK60C3F02 |  |  |  |  |  |  |  |
| AlK60C3F06 |  |  |  |  |  |  |  |
| AIKC8C3F01 | \$2970 | \$3400 | \$3090 | \$3520 | \$3090 | \$3520 | \$4065 |
| AIKC8C3F04 |  |  |  |  |  |  |  |
| AIKC8C3F08 |  |  |  |  |  |  |  |
| AIK80C3F01 |  |  |  |  |  |  |  |
| AIK80C3F04 |  |  |  |  |  |  |  |
| AlK80C3F08 |  |  |  |  |  |  |  |
| AIKC1C3F08 |  |  |  |  |  |  |  |
| AIKC1C3F16 |  |  |  |  |  |  |  |
| AlK16C3F08 |  |  |  |  |  |  |  |
| AlK16C3F16 |  |  |  |  |  |  |  |
| AIKN1C3F08 |  |  |  |  |  |  |  |
| AlKN1C3F16 |  |  |  |  |  |  |  |
| AIK1BC3F08 |  |  |  |  |  |  |  |
| AIK1BC3F16 |  |  |  |  |  |  |  |
| AIK20C3F20 | \$3420 | \$3850 | \$3540 | \$3970 | \$3540 | \$3970 | \$4515 |
| AIKD3C3F30 |  |  |  |  |  |  |  |
| AlK30C3F30 |  |  |  |  |  |  |  |
| AIKE4C3F40 |  |  |  |  |  |  |  |
| AIKG4C3F40 |  |  |  |  |  |  |  |
| AIK40C3F40 |  |  |  |  |  |  |  |

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 6-39.
*।-T-E is a registered trademark of Siemens Energy and Automation, Inc.

Price Selection
Select the desired product number from the chart above. Match the product prefix with the product numbers in the first column of the 3 -wire or 4 -wire table. Select the options column that matches the product suffix chosen. The list price is found in the intersecting box. Conversion Kits Selection Guide

MicroVersaTrip ${ }^{\oplus}$ Trip Unit Conversion Kits for *I-T-E Power Circuit Breakers, 3-Phase, 3-Wire Continued

| Product | MicroVersaTrip ${ }^{\text {® }}$ PM Metering \& Communication List Price, GO-104B |  |  |  |  |  |  | Product | MicroVersaTrip ${ }^{\oplus}$ PM Metering, Communication \& Protective Relay List Price, GO-104B |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number | 02M | 03M | 04M | 05M | 06M | 07M | 08M | Number | 02PM | 03PM | 04PM | 05PM | 06PM | 07PM | 08PM |
| AIKA2C3F01 | \$4320 | \$4750 | \$4440 | \$4870 | \$4440 | \$4870 | \$5415 | AIKA2C3F01 | \$5020 | \$5450 | \$5140 | \$5570 | \$5140 | \$5570 | \$6115 |
| AIKA2C3F02 |  |  |  |  |  |  |  | AIKA2C3F02 |  |  |  |  |  |  |  |
| AIK22C3F01 |  |  |  |  |  |  |  | AIK22C3F01 |  |  |  |  |  |  |  |
| AlK22C3F02 |  |  |  |  |  |  |  | AIK22C3F02 |  |  |  |  |  |  |  |
| AIKBSC3F02 |  |  |  |  |  |  |  | AIKBSC3F02 |  |  |  |  |  |  |  |
| AIKBSC3F06 |  |  |  |  |  |  |  | AIKBSC3F06 |  |  |  |  |  |  |  |
| AIKBXC3F02 |  |  |  |  |  |  |  | AIKBXC3F02 |  |  |  |  |  |  |  |
| AIKBXC3F06 |  |  |  |  |  |  |  | AIKBXC3F06 |  |  |  |  |  |  |  |
| AIKBMC3F02 |  |  |  |  |  |  |  | AIKBMC3F02 |  |  |  |  |  |  |  |
| AIKBMC3F06 |  |  |  |  |  |  |  | AIKBMC3F06 |  |  |  |  |  |  |  |
| AlK60C3F02 |  |  |  |  |  |  |  | AIK60C3F02 |  |  |  |  |  |  |  |
| AIK60C3F06 |  |  |  |  |  |  |  | AIK60C3F06 |  |  |  |  |  |  |  |
| AIKC8C3F01 | \$4470 | \$4900 | \$4590 | \$5020 | \$4590 | \$5020 | \$5565 | AIKC8C3F01 | \$5170 | \$5600 | \$5290 | \$5720 | \$5290 | \$5720 | \$6265 |
| AIKC8C3F04 |  |  |  |  |  |  |  | AIKC8C3F04 |  |  |  |  |  |  |  |
| AIKC8C3F08 |  |  |  |  |  |  |  | AIKC8C3F08 |  |  |  |  |  |  |  |
| AIK80C3F01 |  |  |  |  |  |  |  | AIK80C3F01 |  |  |  |  |  |  |  |
| AIK80C3F04 |  |  |  |  |  |  |  | AIK80C3F04 |  |  |  |  |  |  |  |
| AIK80C3F08 |  |  |  |  |  |  |  | AIK80C3F08 |  |  |  |  |  |  |  |
| AIKC1C3F08 |  |  |  |  |  |  |  | AIKC1C3F08 |  |  |  |  |  |  |  |
| AIKC1C3F16 |  |  |  |  |  |  |  | AIKC1C3F16 |  |  |  |  |  |  |  |
| AIK16C3F08 |  |  |  |  |  |  |  | AIK16C3F08 |  |  |  |  |  |  |  |
| AIK16C3F16 |  |  |  |  |  |  |  | AIK16C3F16 |  |  |  |  |  |  |  |
| AIKN1C3F08 |  |  |  |  |  |  |  | AIKN1C3F08 |  |  |  |  |  |  |  |
| AIKN1C3F16 |  |  |  |  |  |  |  | AIKN1C3F16 |  |  |  |  |  |  |  |
| AIK1BC3F08 |  |  |  |  |  |  |  | AIK1BC3F08 |  |  |  |  |  |  |  |
| AIK1BC3F16 |  |  |  |  |  |  |  | AIK1BC3F16 |  |  |  |  |  |  |  |
| AIK20C3F20 | \$4920 | \$5350 | \$5040 | \$5470 | \$5040 | \$5470 | \$6015 | AIK20C3F20 | \$5620 | \$6050 | \$5740 | \$6170 | \$5740 | \$6170 | \$6715 |
| AIKD3C3F30 |  |  |  |  |  |  |  | AIKD3C3F30 |  |  |  |  |  |  |  |
| AIK30C3F30 |  |  |  |  |  |  |  | AIK30C3F30 |  |  |  |  |  |  |  |
| AIKE4C3F40 |  |  |  |  |  |  |  | AIKE4C3F40 |  |  |  |  |  |  |  |
| AIKG4C3F40 |  |  |  |  |  |  |  | AIKG4C3F40 |  |  |  |  |  |  |  |
| AIK40C3F40 |  |  |  |  |  |  |  | AIK40C3F40 |  |  |  |  |  |  |  |

MicroVersaTrip ${ }^{\circledR}$ Conversion Kits for 3-Phase, 4-Wire

| Product Number | MicroVersaTrip® Plus List Price, GO-104B |  |  |  | MicroVersaTrip® PM Metering \& Communication List Price, GO-104B |  |  |  | MicroVersaTrip® PM Metering, Communication \& Protective Relay List Price, GO-104B |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 03 | 05 | 07 | 08 | 03M | 05M | 07M | 08M | 03PM | 05PM | 07PM | 08PM |
| AIKA2C4F01 | \$3475 | \$3595 | \$3595 | \$4140 | \$4975 | \$5095 | \$5095 | \$5640 | \$5675 | \$5795 | \$5795 | \$6340 |
| AIKA2C4F02 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIK22C4F01 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIK22C4F02 |  |  |  |  |  |  |  |  |  |  |  |  |
| AlKBSC4F02 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIKBSC4F06 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIKBXC4F02 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIKBXC4F06 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIKBMC4F02 |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { AIKBMC4F06 } \\ & \hline \text { AIK60C4F02 } \\ & \hline \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| AIK60C4F06 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIKC8C4F01 | \$3625 | $\$ 3745$ | \$3745 | \$4290 | $\$ 5125$ | \$5245 | \$5245 | \$5790 | \$5825 | \$5945 | \$5945 | \$6490 |
| AIKC8C4F04 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIKC8C4F08 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIK80C4F01 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIK80C4F04 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIK80C4F08 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIKC1C4F08 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIKC1C4F16 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIK16C4F08 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIK16C4F16 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIKN1C4F08 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIKN1C4F16 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIK1BC4F08 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIK1BC4F16 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIK20C4F20 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIKD3C4F30 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIK30C4F30 | \$4075 | \$4195 | \$4195 | \$4740 | \$5575 | \$5695 | \$5695 | \$6240 | \$6275 | \$6395 | \$6395 | \$6940 |
| AIKE4C4F40 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIKG4C4F40 |  |  |  |  |  |  |  |  |  |  |  |  |
| AIK40C4F40 |  |  |  |  |  |  |  |  |  |  |  |  |

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 6-39. *|-T-E is a registered trademark of Siemens Energy and Automation, Inc.


MicroVersaTrip ${ }^{\circledR}$ Trip Unit Conversion Kits for *Westinghouse Power Circuit Breakers, 3-Phase, 3-Wire

| Product Number | MicroVersaTrip ${ }^{\text {© }}$ Plus List Price, GO-104B |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| ADB15C3F01 | \$2820 | \$3250 | \$2940 | \$3370 | \$2940 | \$3370 | \$3915 |
| ADB15C3F02 |  |  |  |  |  |  |  |
| ADK15C3F01 |  |  |  |  |  |  |  |
| ADK15C3F02 |  |  |  |  |  |  |  |
| ADB25C3F02 |  |  |  |  |  |  |  |
| ADB25C3F06 |  |  |  |  |  |  |  |
| ADK25C3F02 |  |  |  |  |  |  |  |
| ADK25C3F06 |  |  |  |  |  |  |  |
| ADS06C3F01 | \$2970 | \$3400 | \$3090 | \$3520 | \$3090 | \$3520 | \$4065 |
| ADS06C3F04 |  |  |  |  |  |  |  |
| ADS06C3F08 |  |  |  |  |  |  |  |
| ADA50C3F08 |  |  |  |  |  |  |  |
| ADA50C3F16 |  |  |  |  |  |  |  |
| ADB50C3F08 |  |  |  |  |  |  |  |
| ADB50C3F16 |  |  |  |  |  |  |  |
| ADS16C3F08 |  |  |  |  |  |  |  |
| ADS16C3F16 |  |  |  |  |  |  |  |
| ADS20C3F20 | \$3420 | \$3850 | \$3540 | \$3970 | \$3540 | \$3970 | \$4515 |
| ADA75C3F30 |  |  |  |  |  |  |  |
| ADB75C3F30 |  |  |  |  |  |  |  |
| ADS32C3F32 |  |  |  |  |  |  |  |
| ADA10C3F40 |  |  |  |  |  |  |  |
| ADB10C3F40 |  |  |  |  |  |  |  |
| ADS40C3F40 |  |  |  |  |  |  |  |

## Price Selection

Select the desired product number from the chart above. Match the product prefix with the product numbers in the first column of the 3 -wire or 4 -wire table. Select the options column that matches the product suffix chosen. The list price is found in the intersecting box.

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 6-39.
*Westinghouse is a trademark of Westinghouse Electric Corporation.

| $80$ | Publications and Reference: See Section 22 for a complete list of additional product-related publications |  |  |
| :---: | :---: | :---: | :---: |
| Rev. 1/08 Prices and data subject to change without notice | wWw.geelectrical.com | BuyLog ${ }^{\circledR}$ Catalog | 6-35 |

## MicroVersaTrip ${ }^{\circledR}$ Plus and MicroVersaTrip ${ }^{\circledR}$ PM Trip Unit Conversion Kits Selection Guide

MicroVersaTrip ${ }^{\oplus}$ Trip Unit Conversion Kits for *Westinghouse Power Circuit Breakers, 3-Phase, 3-Wire Continued

| MicroVersaTrip ${ }^{\circledR}$ PM Metering \& Communication List Price, GO-104B |  |  |  |  |  |  |  | Product Number | MicroVersaTrip® PM Metering, Communication \& Protective Relay List Price, GO-104B |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number | 02M | 03M | 04M | 05M | 06M | 07M | 08M |  | 02PM | 03PM | 04PM | 05PM | 06PM | 07PM | 08PM |
| ADB15C3F01 | \$4320 | \$4750 | \$4440 | \$4870 | \$4440 | \$4870 | \$5415 | ADB15C3F01 | \$5020 | \$5450 | \$5140 | \$5570 | \$5140 | \$5570 | \$6115 |
| ADB15C3F02 |  |  |  |  |  |  |  | ADB15C3F02 |  |  |  |  |  |  |  |
| ADK15C3F01 |  |  |  |  |  |  |  | ADK15C3F01 |  |  |  |  |  |  |  |
| ADK15C3F02 |  |  |  |  |  |  |  | ADK15C3F02 |  |  |  |  |  |  |  |
| ADB25C3F02 |  |  |  |  |  |  |  | ADB25C3F02 |  |  |  |  |  |  |  |
| ADB25C3F06 |  |  |  |  |  |  |  | ADB25C3F06 |  |  |  |  |  |  |  |
| ADK25C3F02 |  |  |  |  |  |  |  | ADK25C3F02 |  |  |  |  |  |  |  |
| ADK25C3F06 |  |  |  |  |  |  |  | ADK25C3F06 |  |  |  |  |  |  |  |
| ADS06C3F01 | \$4470 | \$4900 | \$4590 | \$5020 | \$4590 | \$5020 | \$5565 | ADS06C3F01 | \$5170 | \$5600 | \$5290 | \$5720 | \$5290 | \$5720 | \$6265 |
| ADS06C3F04 |  |  |  |  |  |  |  | ADS06C3F04 |  |  |  |  |  |  |  |
| ADS06C3F08 |  |  |  |  |  |  |  | ADS06C3F08 |  |  |  |  |  |  |  |
| ADA50C3F08 |  |  |  |  |  |  |  | ADA50C3F08 |  |  |  |  |  |  |  |
| ADA50C3F16 |  |  |  |  |  |  |  | ADA50C3F16 |  |  |  |  |  |  |  |
| ADB50C3F08 |  |  |  |  |  |  |  | ADB50C3F08 |  |  |  |  |  |  |  |
| ADB50C3F16 |  |  |  |  |  |  |  | ADB50C3F16 |  |  |  |  |  |  |  |
| ADS16C3F08 |  |  |  |  |  |  |  | ADS16C3F08 |  |  |  |  |  |  |  |
| ADS16C3F16 |  |  |  |  |  |  |  | ADS16C3F16 |  |  |  |  |  |  |  |
| ADS20C3F20 | \$4920 | \$5350 | \$5040 | \$5470 | \$5040 | \$5470 | \$6015 | ADS20C3F20 | \$5620 | \$6050 | \$5740 | \$6170 | \$5740 | \$6170 | \$6715 |
| ADA75C3F30 |  |  |  |  |  |  |  | ADA75C3F30 |  |  |  |  |  |  |  |
| ADB75C3F30 |  |  |  |  |  |  |  | ADB75C3F30 |  |  |  |  |  |  |  |
| ADS32C3F32 |  |  |  |  |  |  |  | ADS32C3F32 |  |  |  |  |  |  |  |
| ADA10C3F40 |  |  |  |  |  |  |  | ADA10C3F40 |  |  |  |  |  |  |  |
| ADB10C3F40 |  |  |  |  |  |  |  | ADB10C3F40 |  |  |  |  |  |  |  |
| ADS40C3F40 |  |  |  |  |  |  |  | ADS40C3F40 |  |  |  |  |  |  |  |

MicroVersaTrip ${ }^{\oplus}$ Conversion Kits for 3-Phase, 4-Wire

|  | MicroVersaTrip ${ }^{\oplus}$ Plus <br> List Price, GO-104B |  |  |  | MicroVersaTrip ${ }^{\oplus}$ PM Metering \& Communication List Price, GO-104B |  |  |  | MicroVersaTrip ${ }^{\text {® }}$ PM Metering, Communication \& Protective Relay List Price, GO-104B |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number | 03 | 05 | 07 | 08 | 03M | 05M | 07M | 08M | 03PM | 05PM | 07PM | 08PM |
| ADB15C4F01 | \$3475 | \$3595 | \$3595 | \$4140 | \$4975 | \$5095 | \$5095 | \$5640 | \$5675 | \$5795 | \$5795 | \$6340 |
| ADB15C4F02 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADK15C4F01 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADK15C4F02 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADB25C4F02 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADB25C4F06 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADK25C4F02 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADK25C4F06 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADS06C4F01 | \$3625 | \$3745 | \$3745 | \$4290 | \$5125 | \$5245 | \$5245 | \$5790 | \$5825 | \$5945 | \$5945 | \$6490 |
| ADS06C4F04 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADS06C4F08 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADA50C4F08 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADA50C4F16 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADB50C4F08 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADB50C4F16 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADS16C4F08 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADS16C4F16 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADS20C4F20 | \$4075 | \$4195 | \$4195 | \$4740 | \$5575 | \$5695 | \$5695 | \$6240 | \$6275 | \$6395 | \$6395 | \$6940 |
| ADA75C4F30 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADB75C4F30 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADS32C4F32 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADA10C4F40 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADB10C4F40 |  |  |  |  |  |  |  |  |  |  |  |  |
| ADS40C4F40 |  |  |  |  |  |  |  |  |  |  |  |  |

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 6-39.


Price Selection
Select the desired product number from the chart above. Match the product prefix with the product numbers in the first column of the 3 -wire or 4 -wire table. Select the options column that matches the product suffix chosen. The list price is found in the intersecting box.

Kits Without Sensors
For kits ordered without sensors, deduct $\$ 450.00$ from the list price of the kit with sensors. Please refer to the sensor rating column above for the appropriate " $X$ " sensor code.

MicroVersaTrip ${ }^{\circledR}$ Trip Unit Conversion Kits for 3-Phase, 3-Wire

| Product | MicroVersaTrip ${ }^{\text {® }}$ Plus <br> List Price, GO-104B |  |  |  |  |  |  | Product Number | MicroVersaTrip ${ }^{\oplus}$ PM Metering \& Communication List Price, GO-104B |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number | 02 | 03 | 04 | 05 | 06 | 07 | 08 |  | 02M | 03M | 04M | 05M | 06M | 07M | 08M |
| ASL25C3F01 | \$2820 | \$3250 | \$2940 | \$3370 | \$2940 | \$3370 | \$3915 | ASL25C3F01 | \$4320 | \$4750 | \$4440 | \$4870 | \$4440 | \$4870 | \$5415 |
| ASL25C3F02 |  |  |  |  |  |  |  | ASL25C3F02 |  |  |  |  |  |  |  |
| ASL25C3F06 |  |  |  |  |  |  |  | ASL25C3F06 |  |  |  |  |  |  |  |
| ASL2AC3F01 |  |  |  |  |  |  |  | ASL2AC3F01 |  |  |  |  |  |  |  |
| ASL2AC3F02 |  |  |  |  |  |  |  | ASL2AC3F02 |  |  |  |  |  |  |  |
| ASL2AC3F06 |  |  |  |  |  |  |  | ASL2AC3F06 |  |  |  |  |  |  |  |
| ASL6BC3F01 |  |  |  |  |  |  |  | ASL6BC3F01 |  |  |  |  |  |  |  |
| ASL6BC3F02 |  |  |  |  |  |  |  | ASL6BC3F02 |  |  |  |  |  |  |  |
| ASL6BC3F06 |  |  |  |  |  |  |  | ASL6BC3F06 |  |  |  |  |  |  |  |
| ASL6GC3F01 |  |  |  |  |  |  |  | ASL6GC3F01 |  |  |  |  |  |  |  |
| ASL6GC3F02 |  |  |  |  |  |  |  | ASL6GC3F02 |  |  |  |  |  |  |  |
| ASL6GC3F06 |  |  |  |  |  |  |  | ASL6GC3F06 |  |  |  |  |  |  |  |
| ASL58C3F01 | \$2970 | \$3400 | \$3090 | \$3520 | \$3090 | \$3520 | \$4065 | ASL58C3F01 | \$4470 | \$4900 | \$4590 | \$5020 | \$4590 | \$5020 | \$5565 |
| ASL58C3F04 |  |  |  |  |  |  |  | ASL58C3F04 |  |  |  |  |  |  |  |
| ASL58C3F08 |  |  |  |  |  |  |  | ASL58C3F08 |  |  |  |  |  |  |  |
| ASL80C3F01 |  |  |  |  |  |  |  | ASL80C3F01 |  |  |  |  |  |  |  |
| ASL80C3F04 |  |  |  |  |  |  |  | ASL80C3F04 |  |  |  |  |  |  |  |
| ASL80C3F08 |  |  |  |  |  |  |  | ASL80C3F08 |  |  |  |  |  |  |  |
| ASR80C3F01 |  |  |  |  |  |  |  | ASR80C3F01 |  |  |  |  |  |  |  |
| ASR80C3F04 |  |  |  |  |  |  |  | ASR80C3F04 |  |  |  |  |  |  |  |
| ASR80C3F08 |  |  |  |  |  |  |  | ASR80C3F08 |  |  |  |  |  |  |  |
| ASL51C3F08 |  |  |  |  |  |  |  | ASL51C3F08 |  |  |  |  |  |  |  |
| ASL51C3F16 |  |  |  |  |  |  |  | ASL51C3F16 |  |  |  |  |  |  |  |
| ASL52C3F08 |  |  |  |  |  |  |  | ASL52C3F08 |  |  |  |  |  |  |  |
| ASL52C3F16 |  |  |  |  |  |  |  | ASL52C3F16 |  |  |  |  |  |  |  |
| ASL1BC3F08 |  |  |  |  |  |  |  | ASL1BC3F08 |  |  |  |  |  |  |  |
| ASL1BC3F16 |  |  |  |  |  |  |  | ASL1BC3F16 |  |  |  |  |  |  |  |
| ASL1GC3F08 |  |  |  |  |  |  |  | ASL1GC3F08 |  |  |  |  |  |  |  |
| ASL1GC3F16 |  |  |  |  |  |  |  | ASL1GC3F16 |  |  |  |  |  |  |  |
| ASR16C3F08 |  |  |  |  |  |  |  | ASR16C3F08 |  |  |  |  |  |  |  |
| ASR16C3F16 |  |  |  |  |  |  |  | ASR16C3F16 |  |  |  |  |  |  |  |
| ASROC3F20 | \$3420 | \$3850 | \$3540 | \$3970 | \$3540 | \$3970 | \$4515 | ASROC3F20 | \$4920 | \$5350 | \$5040 | \$5470 | \$5040 | \$5470 | \$6015 |
| ASL75C3F30 |  |  |  |  |  |  |  | ASL75C3F30 |  |  |  |  |  |  |  |
| ASL30C3F30 |  |  |  |  |  |  |  | ASL30C3F30 |  |  |  |  |  |  |  |
| ASL3BC3F32 |  |  |  |  |  |  |  | ASL3BC3F32 |  |  |  |  |  |  |  |
| ASL3GC3F32 |  |  |  |  |  |  |  | ASL3GC3F32 |  |  |  |  |  |  |  |
| ASR32C3F32 |  |  |  |  |  |  |  | ASR32C3F32 |  |  |  |  |  |  |  |
| ASL4BC3F40 |  |  |  |  |  |  |  | ASL4BC3F40 |  |  |  |  |  |  |  |
| ASL4GC3F40 |  |  |  |  |  |  |  | ASL4GC3F40 |  |  |  |  |  |  |  |
| ASR40C3F40 |  |  |  |  |  |  |  | ASR40C3F40 |  |  |  |  |  |  |  |

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 6-39. *Allis-Chalmers is a trademark of Allis-Chalmers Manufacturing Company Corporation.

Publications and Reference: See Section 22 for a complete list of additional product-related publications

For *Allis-Chalmers Power Circuit Breakers

MicroVersaTrip ${ }^{\text {® }}$ Trip Unit Conversion Kits for 3-Phase, 3-Wire

MicroVersaTrip ${ }^{\circledR}$ Trip Unit Conversion Kits for
3-Phase, 4-Wire

| Product Number | MicroVersaTrip ${ }^{*}$ PM Metering, Communication, and Protective Relay List Price, GO-104B |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 02PM | 03PM | 04PM | 05PM | 06PM | 07PM | 08PM |
| ASL25C3F01 | \$5020 | \$5450 | \$5140 | \$5570 | \$5140 | \$5570 | \$6115 |
| ASL25C3F01 |  |  |  |  |  |  |  |
| ASL25C3F06 |  |  |  |  |  |  |  |
| ASL2AC3F01 |  |  |  |  |  |  |  |
| ASL2AC3F02 |  |  |  |  |  |  |  |
| ASL2AC3F06 |  |  |  |  |  |  |  |
| ASL6BC3F01 |  |  |  |  |  |  |  |
| ASL6BC3F02 |  |  |  |  |  |  |  |
| ASL6BC3F06 |  |  |  |  |  |  |  |
| ASL6GC3F01 |  |  |  |  |  |  |  |
| ASL6GC3F02 |  |  |  |  |  |  |  |
| ASL6GC3F06 |  |  |  |  |  |  |  |
| ASL58C3F01 | \$5170 | \$5600 | \$5290 | \$5720 | \$5290 | \$5720 | \$6265 |
| ASL58C3F04 |  |  |  |  |  |  |  |
| ASL58C3F08 |  |  |  |  |  |  |  |
| ASL80C3F01 |  |  |  |  |  |  |  |
| ASL80C3F04 |  |  |  |  |  |  |  |
| ASL80C3F08 |  |  |  |  |  |  |  |
| ASR80C3F01 |  |  |  |  |  |  |  |
| ASR80C3F04 |  |  |  |  |  |  |  |
| ASR80C3F08 |  |  |  |  |  |  |  |
| ASL51C3F08 |  |  |  |  |  |  |  |
| ASL51C3F16 |  |  |  |  |  |  |  |
| ASL52C3F08 |  |  |  |  |  |  |  |
| ASL52C3F16 |  |  |  |  |  |  |  |
| ASL1BC3F08 |  |  |  |  |  |  |  |
| ASL1BC3F16 |  |  |  |  |  |  |  |
| ASL1GC3F08 |  |  |  |  |  |  |  |
| ASL1GC3F16 |  |  |  |  |  |  |  |
| ASR16C3F08 |  |  |  |  |  |  |  |
| ASR16C3F16 |  |  |  |  |  |  |  |
| ASROC3F20 | \$5620 | \$6050 | \$5740 | \$6170 | \$5740 | \$6170 | \$6715 |
| ASL75C3F30 |  |  |  |  |  |  |  |
| ASL30C3F30 |  |  |  |  |  |  |  |
| ASL3BC3F32 |  |  |  |  |  |  |  |
| ASL3GC3F32 |  |  |  |  |  |  |  |
| ASR32C3F32 |  |  |  |  |  |  |  |
| ASL4BC3F40 |  |  |  |  |  |  |  |
| ASL4GC3F40 |  |  |  |  |  |  |  |
| ASR40C3F40 |  |  |  |  |  |  |  |

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 6-39.

MicroVersaTrip ${ }^{\oplus}$ Plus and MicroVersaTrip ${ }^{\oplus}$ PM Rating Plugs

| Frame Size (Amps) | Sensor Rating (Amps) | Current Rating (Amps) | Current Range (Amps) ${ }^{1}$ | Product Number | List Price GO-245A |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 225 or 800 | 150 | 60 | 30-66 | TR1860 | \$89.00 |
| 225 or 800 | 150 | 80 | 40-88 | TR1B80 | \$89.00 |
| 225 or 800 | 150 | 100 | 50-110 | TR1B100 | \$89.00 |
| 225 or 800 | 150 | 125 | 63-138 | TR1B125 | \$89.00 |
| 225 or 800 | 150 | 150 | 75-165 | TR1B150 | \$89.00 |
| 225 or 600 | 225 | 100 | 50-110 | TR225B100 | \$89.00 |
| 225 or 600 | 225 | 150 | 75-165 | TR225B150 | \$89.00 |
| 225 or 600 | 225 | 225 | 113-248 | TR225B225 | \$89.00 |
| 600 | 600 | 300 | 150-330 | TR6B300 | \$89.00 |
| 600 | 600 | 400 | 200-400 | TR6B400 | \$89.00 |
| 600 | 600 | 450 | 225-495 | TR6B450 | \$89.00 |
| 600 | 600 | 500 | 250-550 | TR6B500 | \$89.00 |
| 600 | 600 | 600 | 300-660 | TR6B600 | \$89.00 |
| 800 | 400 | 150 | 75-165 | TR4B150 | \$89.00 |
| 800 | 400 | 200 | 100-220 | TR4B200 | \$89.00 |
| 800 | 400 | 225 | 113-248 | TR4B225 | \$89.00 |
| 800 | 400 | 250 | 125-275 | TR4B250 | \$89.00 |
| 800 | 400 | 300 | 150-330 | TR4B300 | \$89.00 |
| 800 | 400 | 400 | 200-440 | TR4B400 | \$89.00 |
| 800 or 1600 | 800 | 300 | 150-330 | TR8B300 | \$89.00 |
| 800 or 1600 | 800 | 400 | 200-440 | TR8B400 | \$89.00 |
| 800 or 1600 | 800 | 450 | 225-495 | TR8B450 | \$89.00 |
| 800 or 1600 | 800 | 500 | 250-550 | TR8B500 | \$89.00 |
| 800 or 1600 | 800 | 600 | 300-660 | TR8B600 | \$89.00 |
| 800 or 1600 | 800 | 700 | 350-770 | TR8B700 | \$89.00 |
| 800 or 1600 | 800 | 800 | 400-880 | TR8B800 | \$89.00 |
| 1600 | 1600 | 600 | 300-660 | TR168600 | \$89.00 |
| 1600 | 1600 | 800 | 400-880 | TR168800 | \$89.00 |
| 1600 | 1600 | 1000 | 500-1100 | TR16B1000 | \$89.00 |
| 1600 | 1600 | 1100 | 550-1210 | TR16B1100 | \$89.00 |
| 1600 | 1600 | 1200 | 600-1320 | TR16B1200 | \$89.00 |
| 1600 | 1600 | 1600 | 800-1760 | TR16B1600 | \$89.00 |
| 2000 | 2000 | 800 | 400-800 | TR20B800 | \$89.00 |
| 2000 | 2000 | 1000 | 500-1100 | TR20B1000 | \$89.00 |
| 2000 | 2000 | 1200 | 600-1320 | TR20B1200 | \$89.00 |
| 2000 | 2000 | 1500 | 750-1650 | TR20B1500 | \$89.00 |
| 2000 | 2000 | 1600 | 800-1760 | TR20B1600 | \$89.00 |
| 2000 | 2000 | 2000 | 1000-2200 | TR20B2000 | \$89.00 |
| 3000 | 3000 | 1200 | 600-1320 | TR30B1200 | \$89.00 |
| 3000 | 3000 | 1600 | 800-1760 | TR30B1600 | \$89.00 |
| 3000 | 3000 | 2000 | 1000-2200 | TR30B2000 | \$89.00 |
| 3000 | 3000 | 2500 | 1250-2750 | TR30B2500 | \$89.00 |
| 3000 | 3000 | 3000 | 1500-3300 | TR30B3000 | \$89.00 |
| 3200 | 3200 | 1200 | 600-1320 | TR32B1200 | \$89.00 |
| 3200 | 3200 | 1600 | 800-1760 | TR32B1600 | \$89.00 |
| 3200 | 3200 | 2400 | 1200-2640 | TR32B2400 | \$89.00 |
| 3200 | 3200 | 3200 | 1600-3520 | TR32B3200 | \$89.00 |
| 4000 | 4000 | 1600 | 800-1760 | TR40B1600 | \$89.00 |
| 4000 | 4000 | 2000 | 1000-2200 | TR40B2000 | \$89.00 |
| 4000 | 4000 | 2500 | 1250-2750 | TR40B2500 | \$89.00 |
| 4000 | 4000 | 3000 | 1500-3300 | TR40B3000 | \$89.00 |
| 4000 | 4000 | 3600 | 1800-3960 | TR40B3600 | \$89.00 |
| 4000 | 4000 | 4000 | 2000-4400 | TR40B4000 | \$89.00 |

${ }^{1}$ Utilizing longtime pick-up adjustment of 0.5-1.1 times the rating plug value. Trip rating not to exceed the breaker frame rating Note: Rating plugs ordered and priced separately.

Optional Remote Display-Features
-Provides safe, convenient closed-door access to breaker metering, status and setup functions
-Available for use with either MicroVersaTrip ${ }^{\oplus}$ Plus or MicroVersaTrip ${ }^{\oplus}$ 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

| Accessory Type | Product Number | List Price |
| :--- | :---: | :---: |
| Gemote Display $\mathrm{W} / 6^{\prime}$ Cable | REMDIS1 | $\$ 350.00$ |
| Replacement Cable | REMDIS2 | $\$ 35.00$ |

## Target Module

All ProTrip ${ }^{\text {TM }}$ conversion kits come with a target module. Order another only for renewal purposes.

| Product Number | List Price <br> GO-104P |
| :--- | :---: |
| TARGET02P | $\$ 285.00$ |



Target Module


GE Trip Unit Portable Test Set

[^3]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 $\qquad$ DET-096 Installation Instructions

## Product Number Selection



Arc Quenchers Replacement Kit

|  | List Price, GO-104B |  |
| :---: | :---: | :---: |
| Product Number | G1 | G2 |
| AKO25AQR1 | $\$ 800.00$ | - |
| AKR3SAQR1 | $\$ 800.00$ | - |
| AKR30AQR1 | $\$ 2000.00$ | $\$ 2000.00$ |
| AKR3HAQR1 | $\$ 2300.00$ | $\$ 2300.00$ |
| AKO50AQR1 | $\$ 2350.00$ | - |
| AKR20AQR1 | $\$ 2000.00$ | $\$ 2000.00$ |
| 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.
${ }^{1}$ Kits contain replacement barriers only, arc quenchers do not contain asbestos.
${ }^{2}$ G2 kits are not available for these breakers, please contact the factory for individual replacement arc quenchers.
${ }^{3}$ Does not apply to AK-1 series breakers.
4 These kits are for use on breakers used in AKD and AKD-5 switchgear and substructures.

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 115 V 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 ${ }^{\oplus}$ breaker. Large frame WavePro breakers (3200 Amp and above) ${ }^{1}$ 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.
${ }^{1}$ 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 115 V AC motor in the gear box.


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

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 ${ }^{\circledR}$ breakers in Entellisys® ${ }^{\circledR}$ AKD-10 or Power Break ${ }^{\circledR}$ 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 ${ }^{\circledR}$ breakers accept the Racking Device without modifications.

Racking Devices

| Product Number | Description |
| :--- | :---: |
| WPEGRRLV | Remote Racking Device |
| WPEGRRMODL | Large Frame Breaker |

Retrofit Doors for Large Frame WavePro

| Product Number | Description |
| :--- | :---: |
| WPEGRRLFDR | $3200 / 4000$ Amp WavePro |
| WPEGRRLFDRDI | $3200 / 4000$ Amp WavePro <br> with defeatable interlock |
| WPEGRR50DR | 5000 Amp WavePro |
| WPEGRR50DRDI | 5000 Amp WavePro <br> with defeatable interlock |



Publications and Reference: See Section 22 for a complete list of additional product-related publications


## Circuit Breaker Features and Accessories

-Insulated side plates with insulated toggle for setting over current trip (OCT) for feeder breakers
-Mechanical forced tripping
-Electrodynamic trip device (with or without capacitor and charging unit)
-Shunt trip
-No-voltage release
-Auxiliary contacts
-Different auxiliary contacts for signaling (optional)
-Flexible main terminal configurations
-Plug connectors for auxiliary circuits (optional)
-Hand lever for manual actuation from front (for maintenance purposes only)
-Position indication (optional)
-Manual operation for maintenance
-Internal power supply with a wide range of supply voltage options
-Integrated current measurement unit (SEL) (optional)
-Rectifier breaker mechanical counter

## Key Benefits

-Standard dimensions from 2,600A to 6,000A (feeder models GER2607 - GER6007)
-Operating voltages from 1,000 to 3,900VDC
-Mining and traction compliant (ANSI C37.14, IEC 947-2, EN 50123-2)
-High speed OPEN/TRIP (opening delay <3ms)
-Direct acting instantaneous and adjustable trip unit works without imported energy and is available as bidirectional symmetrical (for line feeder) or undirectional (for rectifier breaker)
-High speed CLOSE (approximately 150 ms )
-Solenoid drive lintegral control unit, mechanically latched, no auxiliary power required to keep contacts closed)
-2-stage contact system
-Compact, enclosed construction
-Modular, serviceable design
-Flexible power terminations
-Easily accessible control and auxiliary connections
-Fixed and draw-out versions
-Extensive accessories

## General Information

| Rated Temperature | $-5^{\circ}$ to $40^{\circ} \mathrm{C}$ ambient $\left(55^{\circ} \mathrm{C}\right.$ with reduced ratings) |
| :--- | :--- |
| Relative Humidity | $90 \% @ \mathrm{~T}<20^{\circ} \mathrm{C} ; \mathrm{RH}=130-2^{*} \mathrm{~T} @ \mathrm{~T}>20^{\circ} \mathrm{C}$ |
| Altitude | -120 m to 2000 m above sea level |

Allitude

Gerapid Breaker Modules


Type SEL Current Measurement System (optional)
-Current measurement at the breaker
-Factory-equipped or field-installable
-No additional space required or breaker modifications
-Ranges 6kA and 12kA
-To 4,000VDC
-Signal output via 3 interfaces
$-4 . .20 \mathrm{~mA}$
-+/- 20mA
-+/- 10V
-Watchdog function standard


Control circuits screw terminals and plug-in connectors
 Gerapid High Speed DC Circuit Breakers

Technical Data for Feeder Circuit Breaker Models 2607 and 4207

| Breaker type |  | Gerapid 2607 |  |  |  |  | Gerapid 4207 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Arc chute type |  | 1×2 | $1 \times 4$ | 2x2 | $2 \times 3$ | $2 \times 4$ | $1 \times 2$ | $1 \times 4$ | 2x2 | $2 \times 3$ | $2 \times 4$ |
| Rated current | In/A | 2,600 | 2,600 | 2,600 | 2,600 | 2,600 | 4,200 | 4,200 | 4,200 | 4,200 | 4,200 |
| Rated operating voltage | Ue/V | 1,000 | 2,000 | 2,000 | 3,000 | 3,600 | 1,000 | 2,000 | 2,000 | 3,000 | 3,600 |
| Rated insulation voltage | Ui/V | 2,000 | 2,000 | 2,000 | 3,000 | 4,000 | 2,000 | 2,000 | 2,000 | 3,000 | 4,000 |
|  | $120 \mathrm{~min} . / \mathrm{A}$ | 3,150 | 3,150 | 3,150 | 3,150 | 3,150 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 |
| Short time current | $2 \mathrm{~min} . / \mathrm{A}$ | 5,200 | 5,200 | 5,200 | 5,200 | 5,200 | 8,500 | 8,500 | 8,500 | 8,500 | 8,500 |
|  | $20 \mathrm{sec} . / \mathrm{A}$ | 7,800 | 7,800 | 7,800 | 7,800 | 7,800 | 12,600 | 12,600 | 12,600 | 12,600 | 12,600 |
| Mechanical endurance | ops. | 20,000 ${ }^{1}$ | 20,000 ${ }^{1}$ | 20,000 ${ }^{1}$ | 20,000 ${ }^{1}$ | 20,000 ${ }^{1}$ | 20,000 ${ }^{1}$ | 20,000 ${ }^{1}$ | 20,000 ${ }^{1}$ | 20,000 ${ }^{1}$ | 20,000 ${ }^{1}$ |
| Total weight approx. | kg | 120 | 120 | 160 | 160 | 160 | 120 | 120 | 160 | 160 | 160 |

1 With regular maintenance 100,000 ops.


Figure 1. Models 2607-6007 Feeder CBs, $1 \times 4$ Arc Chute, 2,000VDC (Dimensions in mm)


Figure 1A. Models 2607-6007 Feeder CBs, $2 \times 4$ Arc Chute, 3,600VDC (Dimensions in mm)

Technical Data for Feeder Circuit Breaker Models 6007 and 8007

| Breaker type |  | Gerapid 6007 |  |  |  |  | Gerapid 8007 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Arc chute type |  | 1×2 | $1 \times 4$ | $2 \times 2$ | $2 \times 3$ | $2 \times 4$ | 1×2 | 2×2 | $2 \times 3$ |
| Rated current | In/A | 6,000 | 6,000 | 6,000 | 6,000 | 6,000 | 8,000 | 8,000 | 8,000 |
| Rated operating voltage | Ue/V | 1,000 | 2,000 | 2,000 | 3,000 | 3,600 | 1,000 | 2,000 | 3,000 |
| Rated insulation voltage | $\mathrm{Ui} / \mathrm{V}$ | 2,000 | 2,000 | 2,000 | 3,000 | 4,000 | 2,000 | 2,000 | 3,000 |
| Short time current | $120 \mathrm{~min} . / \mathrm{A}$ | 7,200 | 7,200 | 7,200 | 7,200 | 7,200 | 9,600 | 9,600 | 9,600 |
|  | $2 \mathrm{~min} . / \mathrm{A}$ | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 16,000 | 16,000 | 16,000 |
|  | $20 \mathrm{sec} . / \mathrm{A}$ | 18,000 | 18,000 | 18,000 | 18,000 | 18,000 | 24,000 | 24,000 | 24,000 |
| Mechanical endurance | ops. | 20,000 ${ }^{1}$ | 20,000 ${ }^{1}$ | 20,000 ${ }^{1}$ | 20,000 ${ }^{1}$ | 20,000 ${ }^{1}$ | 20,0001 | 20,0001 | 20,0001 |
| Total weight approx. | kg | 150 | 150 | 190 | 190 | 190 | 190 | 210 | 210 |

[^4]

Figure 2. Gerapid 8007 Feeder CBs, $1 \times 4$ Arc Chute, 2,000VDC (Dimensions in mm)


Figure 2A. Gerapid 8007 Feeder CBs, $2 \times 4$ Arc Chute, 3,600VDC (Dimensions in mm) Gerapid High Speed DC Circuit Breakers

Technical Data for Rectifier Circuit Breaker Models 8007R and 10007R

| Breaker type |  | Gerapid 8007R |  | Gerapid 1007R |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Arc chute type |  | 1×2 | $1 \times 3$ | $1 \times 2$ | $1 \times 3$ |
| Rated current | In/A | 6,000 | 6,000 | 8,000 | 8,000 |
| Rated operating voltage | Ue/V | 800 | 1,200 | 800 | 1,200 |
| Rated insulation voltage | $\mathrm{Ui} / \mathrm{V}$ | 2,000 | 2,000 | 2,000 | 2,000 |
|  | $120 \mathrm{~min} . / \mathrm{A}$ | 7,200 | 7,200 | 9,600 | 9,600 |
| Short time current | $2 \mathrm{~min} . / \mathrm{A}$ | 8,000 | 8,000 | 16,000 | 16,000 |
|  | $20 \mathrm{sec} . / \mathrm{A}$ | 12,000 | 12,000 | 24,000 | 24,000 |
| Mechanical endurance | ops. | 10,000 ${ }^{1}$ | 10,000 ${ }^{1}$ | 10,000 ${ }^{1}$ | 10,000 ${ }^{1}$ |
| Total weight approx. | kg | 220 | 220 | 220 | 220 |

${ }^{1}$ With regular maintenance $100,000 \mathrm{ops}$.


Figure 3. Gerapid 8007 R and 10007R Rectifier CB, 1X2 Arc Chute, 800VDC (Dimensions in mm)

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 ${ }^{\oplus}$ Recommended Power Supplies |
| GEH-5946 | Power Leader ${ }^{\text {® }}$ 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 |


| 80. | Publications and Reference: See Section 22 for a <br> complete list of additional product-related publications |  |  |
| :--- | :--- | :--- | :--- |
| Rev. $1 / 08$ <br> Price and data subject <br> to change without notice | Www.geelectrical.com | BuyLog ${ }^{\circledR}$ Catalog | $6-49$ |

## NOTES:


[^0]:    ${ }^{1}$ Time delay shown at $600 \%$ of current setting at lower limit of band
    ${ }^{2}$ Time delay shown at lower limit of each band. All pickup tolerances are $\pm 10 \%$,
    ${ }^{3}$ Time delay shown at lower limit of band. Gound-fault pickup not to exceed 1200 amps
    4 Power+ not available on 5000 amp (WPS/WPX-50) circuit breaker.

[^1]:    ${ }^{1}$ Draw-out breaker only, non-automatic.

[^2]:    ${ }^{1}$ Requires the selection of a shunt trip in Step 5 and a 4-stage or higher auxiliary switch in Step 7.

[^3]:    *|-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.

[^4]:    ${ }^{1}$ With regular maintenance 100,000 ops.

