

CT SELECTION GUIDE

PRODUCT	GROUND-FAULT CT	TRIP LEVEL	PAGE #
PGR-2601	No CTs required	1 mA – 20 mA	–
PGR-3100	No CTs required	N/A	–
PGR-3200	No CTs required	Warnings at 30 kΩ & 50 kΩ, Alarm at 10 kΩ	–
PGR-4300	No CTs required	100 A – 1200 A	–
PGR-4704	PGC-5000 Series	10 mA – 5 A	38
PGR-5330	PGC-2000 Series (200-A Primary)	12 A – 200 A	38
	PGC-3000 Series - EFCT (5-A Primary)	100 mA – 5 A	38
	PGC-5000 Series (30-A Primary)	600 mA – 30 A	38
PGR-5701	PGC-2000 Series (200-A Primary)	10 A – 198 A	38
	PGC-3000 Series (5-A Primary)	50 mA – 4.95 A	38
	PGC-5000 Series (30-A Primary)	300 mA – 29.7 A	38
PGN-1000	CTs are included in system	N/A	–
PGN-3000	CTs are included in system	N/A	–
PGR-6100	PGC-5000 Series	10 mA – 3 A	38
PGR-6130	No CTs required <91 A	N/A**	–
PGR-6150	No phase CTs required <25 A, Optional PGC-6000 Series Ground-Fault CT	0.4 A – 150 A	39
PGR-6200*	PGC-2000 Series (200-A Primary)	10 A – 200 A	38
	PGC-3000 Series (5-A Primary)	50 mA – 5 A	38
	PGC-5000 Series (30-A Primary)	300 mA – 30 A	38
PGR-6210*	Same as PGR-6200. Existing CTs can be used in most cases.		
PGR-6300*	PGC-3000 Series (5-A Primary)	50 mA – 5 A	38
	PGC-5000 Series (30-A Primary)	300 mA – 30 A	38
	Standard Iron core CTs (ie 50:5; 100:5; 200:5)	1 to 100% of CT Primary	–
PGR-6310*	Same as PGR-6300. Existing CTs can be used in most cases.		
PGR-6800	No CTs required <91 A	N/A**	–
PGR-7200*	PGC-2000 Series (200-A Primary)	10 A – 200 A	38
	PGC-3000 Series (5-A Primary)	50 mA – 5 A	38
	PGC-5000 Series (30-A Primary)	300 mA – 30 A	38
PGM-8134	PGC-4000 Series	0.5 A – 12.5 A	38
PGM-8325	PGC-2000 Series	0.5 A – 4 A	38
PGM-8600	No CTs required	Warnings at 30 kΩ & 50 kΩ, Alarm at 10 kΩ	–


Note: See page 55 for additional information on CT selection. See page 67 for CT sizing chart.

* Phase CTs should be selected with a primary rating of 100–300% of rated current to maintain specified accuracy. CTs with a 1-A or 5-A secondary are accepted.

** Trip levels are model specific, see ordering information on page 17 and 24.






LEGEND: **GFP** (GROUND FAULT PROTECTION) **MP** (MOTOR PROTECTION) **FP** (FEEDER PROTECTION)
 SM (SUPPLEMENTAL MONITORING) **RG** (RESISTANCE GROUNDING)

PGC FAMILY








CURRENT TRANSFORMERS				
Product		Features	Inner Diameter	Accessory For
PGC-2056 Current Transformer		Detects phase current or ground-fault current. (200-A primary)	56 mm (2.20")	PGR-5330 PGR-6150 PGR-6800 PGR-5701 PGR-6200 PGR-7200 PGR-6130 PGR-6300 PGM-8325
PGC-2089 Current Transformer		Detects phase current or ground-fault current. (200-A primary)	89 mm (3.50")	PGR-5701 PGR-6130 PGR-6150 PGR-6200 PGR-6300 PGR-6800 PGR-7200
PGC-3026 Ground-Fault Current Transformer		Sensitive current transformer used to detect ground-fault current. (5-A primary)	26 mm (1.02")	PGR-5330 PGR-5701 PGR-6200 PGR-6300 PGR-7200
PGC-3082 Ground-Fault Current Transformer		Sensitive current transformer used to detect ground-fault current. (5-A primary)	82 mm (3.23")	PGR-5330 PGR-5701 PGR-6200 PGR-6300 PGR-7200
PGC-3140 Ground-Fault Current Transformer		Sensitive current transformer used to detect ground-fault current. (5-A primary)	140 mm (5.50")	PGR-5701 PGR-6200 PGR-6300 PGR-7200
PGC-31FC Flux Conditioner		Fits in the PGC-3082 window to reduce saturation and prevent false operation due to large surge currents.	70 mm (2.75")	PGC-3082
PGC-4064 Current Sensor		Detects ground-fault current.	64 mm (2.50")	PGM-8134
PGC-4108 Current Sensor		Detects ground-fault current.	108 mm (4.25")	PGM-8134
PGC-4160 Current Sensor		Detects ground-fault current.	160 mm (6.31")	PGM-8134
PGC-4210 Current Sensor		Detects ground-fault current.	210 mm (8.25")	PGM-8134
PGC-5025 Ground-Fault Current Transformer		Current Transformer for low-level ground-fault situations, flux conditioner is standard. (30 A primary)	25 mm (0.98")	PGR-4704 PGR-5330 PGR-5701 PGR-6100 PGR-6200 PGR-6300 PGR-7200
PGC-5060 Ground-Fault Current Transformer		Current Transformer for low-level ground-fault situations, flux conditioner is standard. (30-A primary)	60 mm (2.36")	PGR-4704 PGR-5330 PGR-5701 PGR-6100 PGR-6200 PGR-6300 PGR-7200
PGC-5095 Ground-Fault Current Transformer		Current Transformer for low-level ground-fault situations, flux conditioner is standard. (30-A primary)	95 mm (3.74")	PGR-4704 PGR-5701 PGR-6100 PGR-6200 PGR-6300 PGR-7200
PGC-5130 Ground-Fault Current Transformer		Current Transformer for low-level ground-fault situations, flux conditioner is standard. (30-A primary)	130 mm (5.12")	PGR-4704 PGR-5701 PGR-6100 PGR-6200 PGR-6300 PGR-7200
PGC-5200 Ground-Fault Current Transformer		Current Transformer for low-level ground-fault situations, flux conditioner is standard. (30-A primary)	200 mm (7.87")	PGR-4704 PGR-5701 PGR-6100 PGR-6200 PGR-6300 PGR-7200

ACCESSORIES



PGC FAMILY, PGG FAMILY

CURRENT TRANSFORMERS				
Product		Features	Inner Diameter	Accessory For
PGC-6035 Ground-Fault Current Transformer		Current transformer for measuring ground-fault currents.	35 mm (1.38")	PGR-6150
PGC-6060 Ground-Fault Current Transformer		Current transformer for measuring ground-fault currents.	60 mm (2.36")	PGR-6150
PGC-6080 Ground-Fault Current Transformer		Current transformer for measuring ground-fault currents.	80 mm (3.15")	PGR-6150
PGC-6110 Ground-Fault Current Transformer		Current transformer for measuring ground-fault currents.	110 mm (4.33")	PGR-6150
PGC-6210 Ground-Fault Current Transformer		Current transformer for measuring ground-fault currents.	210 mm (8.27")	PGR-6150

NOTE: Contact factory for additional CT offerings.




GROUND-REFERENCE MODULES				
Product		Features		Accessory For
PGG-0024 Ground Reference Module		Connects the PGR-2601 relay to an ungrounded 24 Vdc bus.		PGR-2601
PGG-0048 Ground Reference Module		Connects the PGR-2601 relay to an ungrounded 48 Vdc bus.		PGR-2601
PGG-0125 Ground Reference Module		Connects the PGR-2601 relay to an ungrounded 125 Vdc bus.		PGR-2601
PGG-0250 Ground Reference Module		Connects the PGR-2601 relay to an ungrounded 250 Vdc bus.		PGR-2601
PGG-0500 Ground Reference Module		Connects the PGR-2601 relay to an ungrounded 500 Vdc bus.		PGR-2601
PGG-0780 Ground Reference Module		Connects the PGR-2601 relay to an ungrounded 780 Vdc bus.		PGR-2601
PGG-1000 Ground Reference Module		Connects the PGR-2601 relay to an ungrounded 1000 Vdc bus.		PGR-2601







PGK FAMILY

PANEL MOUNT ADAPTERS		
Product	Features	Accessory For
PGK-0003 Adapter Plate 	Used when replacing GEC/MCGG ground-fault relays.	PGR-4704 PGR-5701
PGK-0006 Adapter Plate 	Used when replacing FPL-GFRM ground-fault relays.	PGR-5701
PGK-0009 Adapter Plate 	Used when replacing relays in the GE S1 Case.	PGR-6200 PGR-7200
PGK-0010 Adapter Plate 	Used when replacing the GE Lodtrak III.	PGR-6200
PGK-0012 Adapter Plate 	Used when replacing GE and Westinghouse FT-11 relays.	PGR-6200
PGK-0013 Adapter Plate 	Used when replacing the GE Multilin 169, 269, or 369.	PGR-6300
PGK-0014 Adapter Plate 	Used for rough cutouts and when replacing the AB Bulletin 1406.	PGR-6300
PGK-0015 Adapter Plate 	Used for rough cutouts and when replacing the GE Multilin P4A.	PGR-6200 PGR-7200
PGK-0016 Adapter Plate PGK-0016-RTDB Mounting Bracket 	The PGK-0016 mounting plate is used when replacing the GE Multilin 169, 269, and 369 relays. The PGK-0016-RTDB is a mounting bracket for the optional PGA-0120 Temperature Input Module.	PGR-6200 PGR-7200
PGK-0024 Adapter Plate 	Used when replacing the GE Multilin 469.	PGR-6300
PGK-0055 Adapter Plate 	Used to panel mount the PGR-2601 and PGR-5701.	PGR-2601 PGR-4300 PGR-4704 PGR-5701 PGR-6200
PGK-0060 Adapter Plate 	Used to panel mount the relay; IP 53 and NEMA 3 rating, tamper resistant.	PGR-2601 PGR-4300 PGR-4704 PGR-5701 PGR-6200
PGA-016A Watertight Cover 	Watertight cover for outdoor applications.	PGR-6200 PGR-7200
PGK-0SMK Converter Kit 	A kit to convert panel mounted relays to surface mounted	PGR-6200 PGR-7200

Note: The relays shown in the table above are for illustrative purposes only and are not included with the PGK Family Panel Mount Adapters.






PGA FAMILY, PGB FAMILY







INPUT MODULES		
Product	Features	Accessory For
PGA-0120 Temperature Input Module 	Provides 8 programmable inputs to connect Pt100, Ni100, Ni120, and Cu10 RTDs.	PGR-6200 PGR-6300
PGA-0140 Differential Current Module 	Adds motor differential protection, compatible with core balance and summation current transformer connections.	PGR-6200 PGR-6300
PGA-0CIM Current Input Module 	Interface between current transformers and PGR-6200 and PGR-7200 series relays. Prevents open-CT hazards.	PGR-6200 PGR-7200

REMOTE INDICATION		
Product	Features	Accessory For
PGB-0302 Remote Indication and Reset Assembly 	Panel-mounted remote indication and reset, standard 22 mm mounting with NEMA 4 and NEMA 13 rating.	PGM-8325
PGB-0325 Remote Indication and Reset Assembly 	Panel-mounted remote indication and reset with NEMA 1 rating.	PGM-8325
PGB-6130 Remote Indication and Reset Assembly 	Remote indication of overcurrent, phase imbalance, phase loss, phase sequence, and overtemperature. Remote reset included.	PGR-6130
PGB-6800 Remote Indication and Reset Assembly 	Remote indication of overcurrent, undercurrent, phase imbalance, phase loss, and phase sequence. Remote reset included.	PGR-6800
PGA-0500 Analog % Current Meter 	Panel-mounted analog meter displays ground-fault current as a percentage of the set-point.	PGR-2601 PGR-5701 PGR-4300 PGR-6100 PGR-4704
PGA-0510 Analog Ohm Meter 	Panel-mounted analog ohmmeter displays insulation resistance from 0 Ω to infinity.	PGR-3200 PGR-6100 PGR-8600

ACCESSORIES

PGE FAMILY, PGH FAMILY, PGA FAMILY

SENSING RESISTORS		
Product	Features	Accessory For
PGE-600V Sensing Resistor 	Used on systems up to 1 kV.	PGR-5330 PGM-8325
PGE-05KV Sensing Resistor 	Used on systems up to 5 kV.	PGR-5330 PGM-8325
PGE-15KV Sensing Resistor 	Used on systems up to 15 kV.	PGR-5330 PGM-8325
PGE-25KV Sensing Resistor 	Used on systems up to 25 kV.	PGR-5330 PGM-8325
PGE-35KV Sensing Resistor 	Used on systems up to 35 kV.	PGR-5330

TERMINATIONS AND ADAPTERS		
Product	Features	Accessory For
PGH-5000 High Tension Couplers 	Allows 5-kV systems to be connected to relay.	PGR-3200 PGR-6100 PGR-8600
PGH-6000 High Tension Couplers 	Allows 6-kV systems to be connected to relay.	PGR-3200 PGR-6100 PGR-8600
PGA-0TA6 Termination Assembly 	50 W ground-check termination with convenient mounting holes and screw terminals, temperature compensated.	PGM-8134
PGA-0TA7 Small-Format Termination Assembly with Wire Leads 	12 W ground-check termination, ideal for use in end caps and submersible pumps. Mounting holes and wire leads, temperature compensated.	PGM-8134
PGA-0400 Port-Powered Serial Converter 	Converts an RS-485 signal to an RS-232 signal, used for set-point programming and updating flash memory.	PGR-6200 PGR-6300 PGR-7200
PGA-0420 Serial Connector Adapter Kit 	Connects an RJ45 socket to a 9-pin serial connector, includes 1.5 m cable and plug-in adapter.	PGR-6200 PGR-7200