

**MOTOR PROTECTION**

**PGR-6100 (GFR-4000) Motor Ground-Fault and Insulation Relay**



**Features/Benefits**

- Online monitoring to detect ground faults
- Offline monitoring of insulation resistance
- Continuously monitors for predictive protective capabilities
- CT loop monitoring
- Individual alarm contacts (form C)
- Individual analog outputs to indicate insulation resistance and ground-fault current

**Specifications**

**IEEE Device Numbers** 50G/N, 51G/N, 64, 74  
**Dimensions** H 75 mm (3.0")  
**W** 100 mm (3.9")  
**D** 115 mm (4.5")  
**Communications** 2 Analog Outputs  
**Warranty** 5 years

**Web Resources**

[littelfuse.com/pgr-6100](http://littelfuse.com/pgr-6100)

ORDERING NUMBER	SPECIFICATIONS	ACCESSORIES
PGR-6100-120	24 Vdc/120 Vac Control Power	PGC-5000 Series Ground-Fault Transformers PGA-0500 Analog % Current Meter PGA-0510 Analog Ohm Meter PGH Family High Tension Couplers
PGR-6100-240	240 Vac Control Power	

**PGR-6130 Electronic Overload Relay**



**Features/Benefits**

- No external CT required for currents up to 90 A
- Cause-of-trip indication
- N.O. and N.C. alarm contacts
- Adjustable overload trip class setting
- Adjustable current pickup
- Over-temperature (PTC) protection
- Thermal overload protection

**Specifications**

**IEEE Device Numbers** 46, 49, 51  
**Dimensions** H 83 mm (3.3")  
**W** 78 mm (3.1")  
**D** 99 mm (3.9")  
**Warranty** 5 years

**Web Resources**

[littelfuse.com/pgr-6130](http://littelfuse.com/pgr-6130)

ORDERING NUMBER	SPECIFICATIONS	FULL-LOAD CURRENT	ACCESSORIES
PGR-6131-24	24 Vdc	4-16.7 A	PGB-6130 Remote Indication and Reset Assembly
PGR-6131-120	120 Vac	4-16.7 A	
PGR-6131-240	240 Vac	4-16.7 A	
PGR-6132-24	24 Vdc	15-40.5 A	
PGR-6132-120	120 Vac	15-40.5 A	
PGR-6132-240	240 Vac	15-40.5 A	
PGR-6133-24	24 Vdc	40-91 A	
PGR-6133-120	120 Vac	40-91 A	
PGR-6133-240	240 Vac	40-91 A	

**PGR-6150 Motor Protection System**



**Features/Benefits**

- 13 protective functions
- 2 relay outputs, 1 digital input
- No external CT required for currents up to 25 A
- Thermal protection through starting, running, overload and cooling cycles
- RS-485 interface with Modbus® RTU
- Optional PGR-6150-OPI Operator Interface

**Specifications**

**IEEE Device Numbers** 37, 46, 49, 50, 50G/N, 51, 51G/N, 66  
**Dimensions (Relay)** H 83 mm (3.3")  
**W** 78 mm (3.1")  
**D** 99 mm (3.95")  
**Dimensions (OPI)** H 56 mm (2.2")  
**W** 106 mm (4.2")  
**D** 23 mm (0.9")  
**Communications** RS-485 with Modbus® RTU  
**Warranty** 5 years

**Web Resources**

[littelfuse.com/pgr-6150](http://littelfuse.com/pgr-6150)

ORDERING NUMBER	SPECIFICATIONS	ACCESSORIES
PGR-6150-24	24/48 Vdc (Control Unit)	PGR-6150-OPI Operator Interface PGC-6000 Series Ground-Fault Transformer
PGR-6150-120	120/240 Vac/dc (Control Unit)	
PGR-6150-OPI	Operator Interface	

# MOTOR PROTECTION

## MPU-32 (PGR-6200) Motor Protection Unit



### Features/Benefits

- Reduced overcurrent setting for maintenance
- Dynamic thermal modeling
- Communications for different networks
- Optional RTD protection
- Optional differential protection
- Conformal coating
- Modular system and compact design makes installation easy for new or retrofit applications

### Specifications

**IEEE Device Numbers** 37, 38, 46, 49, 50, 50G/N, 51, 51G/N, 66, 74, 86, 87  
**Dimensions**  
**H** 96 mm (3.78")  
**W** 96 mm (3.78")  
**D** 132 mm (5.2")  
**Communications** RS-232 (Standard); RS-485, DeviceNet™ Ethernet (Optional)  
**Warranty** 10 years

### Web Resources

[littelfuse.com/mpu-32](http://littelfuse.com/mpu-32)

ORDERING NUMBER	COMMUNICATIONS	ACCESSORIES
MPU-32-00-00	TIA-232	Phase Current Transformers
MPU-32-01-00	TIA-232 & RS-485	Ground-Fault Current Transformers
MPU-32-02-00	TIA-232 & DeviceNet™	MPS-RTD Temperature Input Module
MPU-32-04-00	TIA-232 & Ethernet	MPS-DIF Differential Current Module

## MPS (PGR-6300) Motor Protection System



### Features/Benefits

- Overcurrent reduction setting for maintenance
- Monitors voltage, current, and temperature
- 22 motor protection functions
- Conformal coating
- Dynamic thermal modeling
- Starter control, Metering, and Data Logging
- Optional RTD protection with hazardous-location certified RTD module
- Optional differential protection
- Modular design makes installation easy

### Specifications

**IEEE Device Numbers** 1, 2, 3, 5, 9, 14, 18, 19, 27, 34, 37, 38, 46, 47, 48, 49, 50, 50G, 50N, 51, 51G/N, 55, 59, 66, 74, 81, 86, 87, 94  
**Dimensions (OPI)**  
**H** 98 mm (3.86")  
**W** 192 mm (7.56")  
**D** 0.42 mm (1.65")  
**Communications** Allen-Bradley® DF1 & Modbus™ RTU (Standard); DeviceNet™, Profibus®, Ethernet (Optional)  
**Warranty** 10 years

### Web Resources

[littelfuse.com/mps](http://littelfuse.com/mps)

ORDERING NUMBER	COMMUNICATIONS	ACCESSORIES
MPS-CTU-01-00	RS-485	Phase Current Transformers
MPS-CTU-02-00	RS-485 & DeviceNet™	Ground-Fault Current Transformers
MPS-CTU-03-00	RS-485 & Profibus®	MPS-RTD Temperature Input Module
MPS-CTU-04-00	RS-485 & Ethernet	MPS-DIF Differential Current Module
MPS-OPI-01-00	Operator Interface	

## MPU-32-X69X (PGR-6210) & MPS-469X (PGR-6310) Motor Protection Retrofit Kits



### Features/Benefits

- Direct replacement for GE MultiIn 169, 269, 369 and 469 relays
- Microprocessor-based protection
- Proven reliability
- Conformally coated circuit boards
- Pre-wired module allows minimal change-out time
- Ability to match existing overcurrent values

### Ordering Information

MPU-32-X69X

	RTD INPUTS	MPU-32 COMMUNICATION	GROUND-FAULT CT	FUTURE OPTIONS
MPU-32-X69X	X	X	X	00
	0 = One Platinum 100 Ω	0 = TIA232	0 = Wired for wGround-Fault CT (50 mA Secondary)	
	1 = One Platinum 100 Ω & 8-input MPS-RTD Module	1 = TIA232 & TIA485	1 = Wired for 1- or 5-A Secondary Ground-Fault CT	
		2 = TIA232 & DeviceNet		
		4 = TIA232 & Ethernet		

### Ordering Information

MPS-469X

	MODULE CONFIGURATION	MPS COMMUNICATION	FUTURE OPTIONS
MPS-469X	X	X	000
	0 = None	1 = RS485	
	1 = One MPS-RTD Module	2 = RS485 & DeviceNet	
	2 = Two MPS-RTD Modules	3 = RS485 & Profibus	
	3 = One MPS-DIF Module	4 = RS485 & Ethernet	
	4 = One MPS-RTD Module & One MPS-DIF Module		