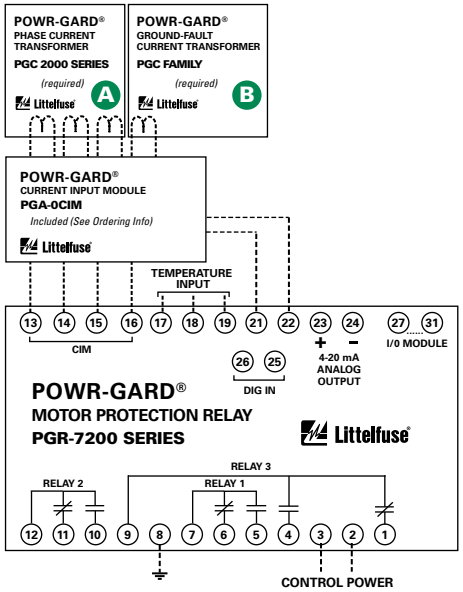
PGR-7200 SERIES

Feeder Protection Relay

NOTE: The PGR-7200 consists of the Feeder Protection Relay (pictured above) and the PGA-0CIM Current Input Module (not pictured).

Wiring Diagram



Ordering Information

CATALOG/ SYSTEM NUMBER	COMMUNICATIONS
PGR-7200-00-00	TIA-232
PGR-7200-01-00	TIA-232 & RS-485
PGR-7200-02-00	TIA-232 & DeviceNet™
PGR-7200-04-00	TIA-232 & Ethernet

NOTE: The PGR-7200 consists of the Feeder Protection Relay and the PGA-0CIM Current Input Module (not pictured). To order the relay only, add (-FPU) to the part number listed above.

ACCESSORIES	REQUIREMENT	PAGE
PGC 2000 Series	Required	38
PGC Family	Required	38

Description

The PGR-7200 Feeder Protection Relay provides integrated protection, metering, and data-logging functions. It is an excellent choice for retrofitting and upgrading older relays, because of its compact size and ability to use existing CTs. The PGR-7200 is used to protect distribution feeders in processing, manufacturing, petroleum, chemical, and wastewater treatment facilities.

Features & Benefits

FEATURES	BENEFITS
IEC & IEEE Overcurrent Protection Curves	Definite and inverse time settings for system coordination; prevents catastrophic failures
Two Setpoint Groups	Create distinctive settings for maintenance or for two different loads
Reduced Overcurrent Mode	Maintenance mode setting to reduce the risk of Arc-Flash Hazards
Data Logging	On-board 100-event recorder and remote data logging helps with system diagnostics
Overload	Prevents insulation failures and fires; extends motor life
Phase Loss/Phase Reverse (Current)	Detects unhealthy supply conditions
Unbalance (Current)	Prevents overheating due to unbalanced phases
Communications	Remotely view measured values, event records & reset trips

Accessories

A 

PGC-2000 Series Phase Current Transformers
Required CT detects phase current or ground-fault current (200-A primary). Other current ratios available.

B 

PGC Family Ground-Fault Transformers
Required zero-sequence current transformers detect ground-fault current. Available with 5-A and 30-A primary ratings for low-level pickup.

Specifications

Protective Functions (IEEE Device Numbers)	Overload (49, 51)	Definite-Time Overcurrent (50, 51)
	Phase sequence (46)	Inverse-Time Overcurrent (50, 51)
	Unbalance (46)	Ground fault (50G/N, 51G/N)
	Phase loss (46)	RTD/PTC temperature (49)
Input Voltage	65–265 Vac, 30 VA; 80–275 Vdc, 25 W	
Power-Up Time	800 ms at 120 vac	
Ride-Through Time	100 ms minimum	
24-Vdc Source	400 mA maximum	
AC Measurements	True RMS and DFT, Peak 32 samples/cycle and positive and negative sequence of fundamental	
Frequency	50, 60 Hz	
Output Contacts	Three Form C	
Approvals	CSA certified to US and Canadian standards	
Communications	TIA-232 (standard); TIA-485, DeviceNet™, Ethernet (optional)	
Analog Output	4–20 mA, programmable	
Conformally Coated	Standard feature	
Warranty	10 years	
Mounting (Control Unit)	Panel (standard) Surface (with PGK-0SMK converter kit)	
(Current Input Module)	DIN, Surface	