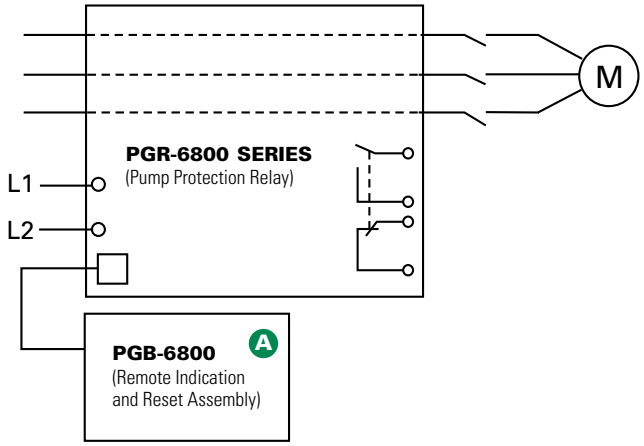
PGR-6800 SERIES

Pump Protection Relay

Simplified Circuit Diagram



Description

The PGR-6800 Pump Protection Relay provides protection for pumps with three-phase motors up to 1,000 Vac. No current transformers are required for currents up to 91 A. The protective functions include overload, phase unbalance, phase loss, phase sequence and undercurrent. The PGR-6800 Pump Protection Relay is ideally suited for applications where operating without load can induce failure. Motor current is monitored and an undercurrent trip occurs when the current drops below a preset level. No additional level detectors are required.

Features & Benefits

FEATURES	BENEFITS
No CTs required	No current transformers required for currents up to 91 A
Adjustable trip settings	Adjustable overload trip class setting from 5 to 15 for use with a wide variety of pumps
Output contacts	Form A and Form B ground-fault output contacts for operation of separate annunciation and trip circuits
Remote indication	Cause-of-trip indication and reset button
Overload	Prevents insulation failures and fires; extends motor life
Phase loss/Phase sequence	Detects unhealthy supply conditions
Unbalance (current)	Prevents overheating due to unbalanced phases
Undercurrent	Detects low level or no-load conditions

Accessories

A

PGB-6800 Remote Indication and Reset Assembly
Optional remote indication of overload, undercurrent, phase unbalance, phase loss, and phase sequence. Remote reset included.

Ordering Information

ORDERING NUMBER	CONTROL POWER	FULL-LOAD CURRENT
PGR-6801-24	24 Vdc	7-19.6 A
PGR-6801-120	120 Vac	7-19.6 A
PGR-6801-240	240 Vac	7-19.6 A
PGR-6802-24	24 Vdc	19-44.2 A
PGR-6802-120	120 Vac	19-44.2 A
PGR-6802-240	240 Vac	19-44.2 A
PGR-6803-24	24 Vdc	40-90.4 A
PGR-6803-120	120 Vac	40-90.4 A
PGR-6803-240	240 Vac	40-90.4 A

ACCESSORIES	REQUIREMENT
PGB-6800	Optional

Specifications

Protective Functions (IEEE Device Numbers)	Overload (49, 51) Phase sequence (46) Undercurrent (37)	Unbalance (current) (46) Phase loss (current) (46)
Input Voltage	See ordering information	
Frequency	50, 60 Hz	
Dimensions	**H** 83 mm (3.3"); **W** 78 mm (3.1"); **D** 99 mm (3.9")	
Test Button	Standard feature	
Reset Button	Standard feature	
Output Contacts	Isolated form A and Form B	
Approvals	UL Listed (E343314)	
Warranty	5 years	
Mounting	DIN	

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