Protection Relays and Controls

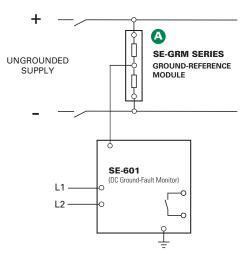
Ungrounded DC System

SE-601 SERIES (PGR-2601)

DC Ground-Fault Monitor



Simplified Circuit Diagram



Ordering Information

-	
ORDERING NUMBER	CONTROL POWER
SE-601-0U	120/240 Vac/Vdc
SE-601-0D	12/24 Vdc
SE-601-OT	48 Vdc
ACCESSORIES	REQUIREMENT
SE-GRM SERIES	Required
PGA-0500	Optional
PMA-55	Optional
PMA-60	Optional

Note: For optional conformal coating please consult factory.





Description

The SE-601 is a microprocessor-based ground-fault relay for ungrounded dc systems. It provides sensitive ground-fault protection without the problems associated with nuisance tripping. Ground-fault current is sensed using an SE-GRM Series Ground-Reference Module-a resistor network that limits ground-fault current to 25 mA. The SE-601 is used on ungrounded dc systems ranging from industrial 24-Vdc control circuits to 1000-Vdc solar and transportation systems.

Features & Benefits

FEATURES	BENEFITS
Adjustable pickup (1-20 mA)	Ten settings provide a wide range of low-level protection
Adjustable time delay (50 ms-2.5 s)	Adjustable trip delay allows quick protection or delayed response
Output contacts	Form A and Form B output contacts for operation of separate annunciation and trip circuits
Analog output (0-5V)	Provides means for connecting to a meter (PGA-0500) or a control system
Non-volatile trip Memory	Retains trip state when de-energized to simplify troubleshooting
Selectable contact operating mode	Selectable fail-safe or non-fail-safe operating modes allow connection to shunt or undervoltage breaker coil
Microprocessor based	No calibration required saves on maintenance cost

Accessories



SE-GRM Series Ground-Reference Module

Required accessory, used to connect the SE-601 DC Ground-Fault Monitor to the DC bus.



PGA-0500 Analog % Current Meter

Optional panel-mounted analog meter displays ground-fault current as a percentage of 22 mA.

Specifications

IEEE Device Numbers Input Voltage Dimensions Trip Level Settings Output Contacts Contact Operating Mode Test Button Reset Button Analog Output Conformally Coated Approvals	DC Overcurrent Relay (76G) See ordering information H 75 mm (3.0"); W 55 mm (2.2"); D 115 mm (4.5") 1-20 mA 0.05-2.5 s Isolated Form A and Form B Selectable fail-safe or non-fail-safe Local Local and remote 0-5 V Consult factory CSA certified, UL Listed (E340889), CE (European Union) C Tick (Australian)
Warranty Mounting	CE (European Union), C-Tick (Australian) 5 years DIN, Surface (standard) Panel (with PMA-55 or PMA-60 adapter)

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