

GROUND-FAULT PROTECTION

Gross Automation 3680 N. 126th St., Brookfield, WI 53005 Toll-Free: 877-268-3700 sales@grossautomation.com

SE-601 (PGR-2601) DC Ground-Fault Monitor For Ungrounded DC Systems



Features/Benefits

- Sensitive 1- to 20-mA trip settings
- A microprocessor-based ground-fault relay for ungrounded dc systems
- 50-ms to 2.5-s time-delay settings
- Limits ground-fault current to 25 mA
- Form-A and Form-B trip contacts

Specifications

IEEE Device Number 76G
Dimensions H 75 mm (3.0")
W 55 mm (2.2")
D 115 mm (4.5")
Communications Analog Output
Warranty 5 Year

Web Resources

littelfuse.com/se-601

ORDERING NUMBER	SPECIFICATIONS	ACCESSORIES
SE-601-OD	24 Vdc Control Power	SE-GRM Series Ground Reference Modules PGA-0500 Analog Current Meter
SE-601-OT	48 Vdc Control Power	
SE-601-OU	120/240 Vac/dc 50/60 Hz Control Power	

EL3100 Ground-Fault & Phase-Voltage Indicator For Grounded/Ungrounded AC Systems



Features/Benefits

- Meets National Electrical Code (NEC®) Article 250.21 and Canadian Electrical Code Part 1, Section 10-106 (2) requirements for ungrounded systems
- System voltage is not present at the remote LED locations
- Indicates the presence of voltage on both grounded and ungrounded systems

Specifications

Input Voltage Input L: 208/240 Vac
Input H: 480/600 Vac
Dimensions H 87.0 mm (3.43")
W 112.5 mm (4.43")
D 56.0 mm (2.2")
Approvals CSA certified,
UL Listed (E340889)
Warranty 5 years

Web Resources

littelfuse.com/el3100

ORDERING NUMBER	MOUNTING	ACCESSORIES
EL3100-00	DIN, Surface	RK-310X-0Y (optional)

PGR-3200 Ground-Fault Protection System For Ungrounded AC Systems



Features/Benefits

- Meets NEC Article 250.21 (B)
- Continuously monitors the insulation integrity of ungrounded electrical systems for ground faults
- Provides 2 warnings and 1 alarm
- Analog output for insulation reading

Specifications

IEEE Device Number 27, 64
Dimensions H 75 mm (3")
W 110 mm (3.9")
D 110 mm (4.3")
Communications Analog Output
Warranty 5 Year

Web Resources

littelfuse.com/pgr-3200

ORDERING NUMBER	SPECIFICATIONS	ACCESSORIES
PGR-3200	240 Vac Control Power	PGH family High Tension Couplers PGA-0510 Analog Insulation Meter
PGR-3200-120	120 Vac Control Power	

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SE-701 (PGR-5701) Ground-Fault Monitor For Solidly and Resistance-Grounded Systems



Features/Benefits

- Choice of input CT gives wide setting range
- A microprocessor-based ground-fault relay for resistance-grounded and solidly grounded systems
- Microprocessor-based unit with DFT
- Non-volatile trip memory retains trip state
- Compatible with VFD applications
- Adjustable pick-up settings from 1% to 99% of CT primary rating, as low as 50 mA
- Adjustable time-delay settings from 0.5 to 2.5 sec

Specifications

IEEE Device Numbers 50G/N, 51G/N
Dimensions H 75 mm (3.0")
W 55 mm (2.2")
D 115 mm (4.5")
Communications Analog Output
Warranty 5 Year

Web Resources

littelfuse.com/se-701

ORDERING NUMBER	SPECIFICATIONS	ACCESSORIES
SE-701-OU	120/240 Vac/dc Control Power	Ground Fault Current Transformers PGA-0500 Analog Current Meter
SE-701-OD	12/24 Vdc Control Power	
SE-701-OT	48 Vdc Control Power	
SE-701-O3	24 Vac Control Power	

SE-703 Earth Leakage Monitor For Solidly and Resistance-Grounded Systems



Features/Benefits

- Provides sensitive ground-fault protection
- A microprocessor-based ground-fault relay for resistance-grounded and solidly earthed systems
- Microprocessor-based unit with DFT
- Non-volatile trip memory retains trip state
- Compatible with VFD applications
- Adjustable pick-up settings from 25 mA to 500 mA
- Adjustable time-delay settings from 50 to 500 ms

Specifications

IEEE Device Numbers 50G/N, 51G/N
Dimensions H 75 mm (3.0")
W 55 mm (2.2")
D 115 mm (4.5")
Communications Analog Output
Warranty 5 Year

Web Resources

littelfuse.com/se-703

ORDERING NUMBER	SPECIFICATIONS	ACCESSORIES
SE-703-OU	120/240 Vac/dc Control Power	EFCT series Current Transformers PGA-0500 Analog Current Meter
SE-703-OD	12/24 Vdc Control Power	
SE-703-OT	48 Vdc Control Power	
SE-703-O3	24 Vac Control Power	

SE-704 (PGR-4704) Earth Leakage Monitor For Solidly and Resistance-Grounded Systems



Features/Benefits

- Provides very sensitive ground-fault protection
- Microprocessor-based unit with DFT
- Non-volatile trip memory retains trip state
- Compatible with VFD applications
- Adjustable pick-up settings from 10 mA to 5 A
- Adjustable time-delay settings from 0.5 to 2.5 sec

Specifications

IEEE Device Numbers 50G/N, 51G/N
Dimensions H 75 mm (3.0")
W 55 mm (2.2")
D 115 mm (4.5")
Communications Analog Output
Warranty 5 Year

Web Resources

littelfuse.com/se-704

ORDERING NUMBER	SPECIFICATIONS	ACCESSORIES
SE-704-OU	120/240 Vac/dc Control Power	SE-CS30 series Current Transformers PGA-0500 Analog Current Meter
SE-704-OD	12/24 Vdc Control Power	
SE-704-OT	48 Vdc Control Power	
SE-704-O3	24 Vac Control Power	

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T2800 Earth-Fault Relay For Solidly and Resistance-Grounded Systems



Features/Benefits

- Accepts high supply voltage variation
- Visual indication of power, pick-up and output trip
- Direct line-line or line-neutral voltage supply
- Wide range of combined current and delay settings
- DIN-rail or Screw-mount

Specifications

Trip Level 0.02-0.2 x I_N or 0.2-2 x I_N
Delay 0.1-1 sec or 1-10 sec
Dimensions
H 70 mm (2.76")
W 100 mm (3.94")
D 115 mm (4.52")

Web Resources

littelfuse.com/t2800

ORDERING NUMBER	TERMINALS		I _N
	1-3	2-3	
T2800-00	230 V		5 A
T2800-01	450 V	400 V	5 A
T2800-02	127 V	120 V	5 A
T2800-04	24V DC+AC		5 A
T2800-05	480 V	415 V	5 A
T2800-08	230 V		1 A

EL731 AC/DC Sensitive Earth-Leakage For Solidly-Grounded Systems



Features/Benefits

- Microprocessor based relay that offers complete coverage for all frequencies
- Adjustable trip settings provide wide range protection and coordination
- Operate in both AC or DC mode and single or combined ranges
- LED indication for visual trip, alarm and CT

Specifications

IEEE Device Numbers 38, 49, 50G/N, 51G/N, 79G
Dimensions
H 48 mm (1.9")
W 96 mm (3.8")
D 129 mm (5.0")
Warranty 5 Years

Web Resources

littelfuse.com/el731

ORDERING NUMBER	CONTROL POWER	COMMUNICATIONS
EL731-00-XO	120/240 Vac/Vdc	None
EL731-01-XO	120/240 Vac/Vdc	DeviceNet™
EL731-02-XO	120/240 Vac/Vdc	Profibus®
EL731-03-XO	120/240 Vac/Vdc	Ethernet/IP™
EL731-04-XO	120/240 Vac/Vdc	Modbus®TCP
EL731-10-XO	48 Vdc & 24 Vac	None
EL731-11-XO	48 Vdc & 24 Vac	DeviceNet™
EL731-12-XO	48 Vdc & 24 Vac	Profibus®
EL731-13-XO	48 Vdc & 24 Vac	Ethernet/IP™
EL731-14-XO	48 Vdc & 24 Vac	Modbus®TCP

ORDERING NUMBER	CONTROL POWER	COMMUNICATIONS
EL731-20-XO	24 Vdc	None
EL731-21-XO	24 Vdc	DeviceNet™
EL731-22-XO	24 Vdc	Profibus®
EL731-23-XO	24 Vdc	Ethernet/IP™
EL731-24-XO	24 Vdc	Modbus®TCP

T3200 Double Insulation Monitoring Relay For Ungrounded Systems



Features/Benefits

- Continuously monitors two systems galvanically separated from each other
- Ensures correct operation in spite of voltage supply fluctuations
- Visual indication of power pick-up, and output trip

Specifications

Insulation Level 0-5 MW
Max Voltage 660 V
Dimensions
H 70 mm (2.75")
W 100 mm (3.94")
D 115 mm (4.52")

Web Resources

littelfuse.com/t3200

ORDERING NUMBER	1-3 TERMINALS	2-3 TERMINALS	ACCESSORIES
T3200.0010	230 V		E2333 Megaohmmeter
T3200.0020	450 V	400 V	
T3200.0030	480 V	415 V	
T3200.0050	110 V	100 V	
T3200.0060	127 V	120 V	