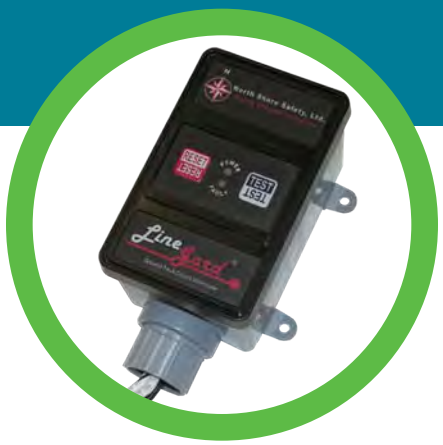


LineGard | PGFS Series

30 Amp Permanent Series (Splice-In) GFCI/ELCI

INTRODUCTION

The LineGard™ 30 Amp Permanent Series is an industrial grade ground fault interrupter device designed and manufactured by North Shore Safety, Ltd., a leader in innovated safety products. The unique design offers the flexibility of splicing in protection of a GFCI anywhere within the length of the circuit run, making it ideal for both new and existing applications. Unlike breaker style GFCI's which have limitations of circuit length from the service panel, the PFGS series can be integrated directly into a circuit or paired in tandem with an approved receptacle and enclosure.

Available with an operating voltage of 120 VAC, 240 VAC, 208 VAC, 277 VAC or 120/240 VAC, all units have 18" splicing leads and a 3/4" NPT fitting to allow connection to 3/4" PVC, EMT, burial and flexible conduits. All units are MADE IN THE USA and are listed per UL 943 and CSA 22.2 No.144

FEATURES

- Power and fault status indicators
- Industrial design for rough service
- Chemical and UV resistant enclosure
- cULus Listed as a Class A GFCI per UL 943 and CSA 22.2 No. 144
- 30 amp configurations in 120 VAC 3-wire, 240 VAC 3-wire, 208 VAC 3-wire, 277 VAC 3-wire, or 120/240 VAC 4-wire
- NEMA 4X and 6P wet location rated (indoor / outdoor)
- Available in automatic or manual reset configurations[1]

SPECIFICATIONS

Listing Type	cULus Listed Class A UL 943 CSA 22.2 No. 144
Rated Supply Voltage	120 VAC, 240 VAC, 208 VAC, 277 VAC, 120/240 VAC
Rated Current	Up to 30 Amps or rating of wiring device and/or cable
Trip Level	5mA +/–1mA
Operating Frequency	60 Hz
Reset Type[1]	Automatic or Manual
Response Time	25mS max
Operating Temperature	–35°C to 66°C
Operating Voltage Range	85% to 110% of rated VAC
Let-Go Voltage	60% of supply voltage
Open Neutral Protection	Trips upon loss of neutral
Grounded Neutral Protection	Trips if ground and neutral touch at load side

1. Manual configuration should be specified if automatic start-up after power restoration of circuit power creates an unsafe condition.

RELATED CODES	
Confined Space	OSHA 29 CFR 1926.404 (b)(1)(ii), OSHA 29 CFR 1926.405 (a)(2)(ii)(G)
Construction Sites	(NEC 590.6)
Commercial Garages	(NEC 511.12)
Outdoor Signs	(NEC 600.10)
Fountains & Water Displays	(NEC 680.58)
Spa & Hot Tubs	(NEC 680.40)
Marinas & Boat Yards	(NEC 555.3)

APPLICATION OPPORTUNITIES:

Electrical wet locations
Power generators
Agricultural equipment
Outdoor electrical equipment
Cement cutting equipment
Portable electric heaters
Submersible pumps
Pipeline heaters
Automotive garages
Industrial part washers
Outdoor signage
De-icing equipment (roof heaters)

DECISION TABLES

PGFS - 2 3 0 1 5

1 Product Type

6 Mounting Type
5 Panel mount

2 Voltage
1 120 VAC
2 240 VAC
3 120/240 VAC
9 208 VAC
D 277 VAC

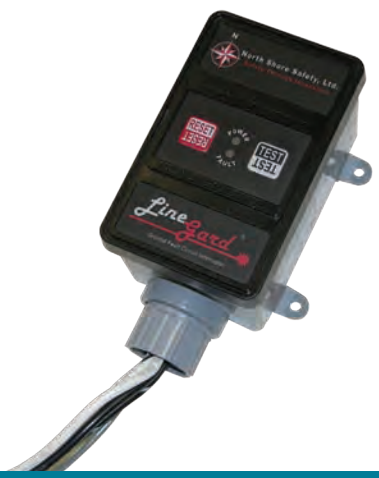
3 Ampacity
3 30 amps

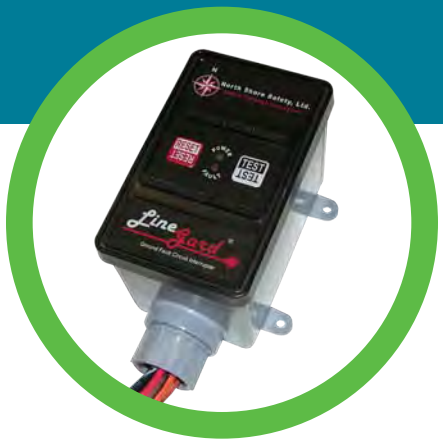
4 Reset Type [1]
0 Manual
1 Automatic

5 Fault Output Options
0 None
1 Internal annunciation
2 120 VAC or 240 VAC [2]
3 24 VDC
4 12 VDC

*Note:
1. Manual configuration should be specified if automatic power-up, after power restoration of circuit power, could create an unsafe condition.
2. VAC fault outputs are at line voltage and are not GFCI protected (4-wire 120/240 VAC configuration is a 240 VAC output)
3. 3-mode surge protection is available. Please consult Airpax for other options

Flying Leads (Splice-in)





LineGard | PGFS Series

30 Amp Multi-Phase Permanent Series (Splice-In) GFCI

INTRODUCTION

The LineGard™ 30 Amp Permanent Series is an industrial grade ground fault interrupter device designed and manufactured by North Shore Safety, Ltd., a leader in innovated safety products. The unique design offers the flexibility of splicing in protection of a GFCI anywhere within the length of the circuit run, making it ideal for both new and existing applications. Unlike breaker style GFCI's which have limitations of circuit length from the service panel, the PFGS series can be integrated directly into a circuit or paired in tandem with an approved receptacle and enclosure.

Available with an operating voltage of 120/240 VAC dual voltage, 3Ø 120/208 VAC, 3Ø 240 VAC (certified to CSA 22.2 only), 3Ø 208 VAC or 3Ø 277 VAC (UL 1053 compliant), all units have 18" splicing leads and a 3/4" NPT fitting to allow connection to 3/4" PVC, EMT, burial and flexible conduits. All units are MADE IN THE USA and are listed per UL 943 and CSA 22.2 No.144

FEATURES

- Power and fault status indicators
- Double insulated user interface
- Industrial design for rough service
- Chemical and UV resistant enclosure
- cULus Listed as a Class A GFCI per UL 943 and CSA 22.2 No. 144
- 30 amp configurations in 120/240 VAC 4-wire, 3Ø 120/208 VAC 5-wire, 3Ø 240 VAC 4-wire, 3Ø 208 VAC 4-wire, 3Ø 277 VAC 4-wire (UL 1053)
- NEMA 4X and 6P wet location rated (indoor / outdoor)
- Available in automatic or manual reset configurations[1]

SPECIFICATIONS

Listing Type	cULus Listed Class A UL 943 CSA 22.2 No. 144
Rated Supply Voltage	120/240 VAC Dual Voltage, 120/208 VAC 3Ø, 240 VAC 3Ø (CSA only), 208 VAC 3Ø, 277 VAC 3Ø (UL 1053)
Rated Current	Up to 30 Amps or rating of wiring device and/or cable
Horse Power	1HP@120 VAC, 3HP@240 VAC
Trip Level	5mA +/–1mA
Operating Frequency	60 Hz
Reset Type[1]	Automatic or Manual
Phase	Dual voltage and 3 phase
Response Time	25mS max
Operating Temperature	–35°C to 66°C
Operating Voltage Range	85% to 110% of rated VAC
Let-Go Voltage	60% of supply voltage
Open Neutral Protection	Trips upon loss of neutral
Grounded Neutral Protection	Trips if ground and neutral touch at load side

1. Manual configuration should be specified if automatic start-up after power restoration of circuit power creates an unsafe condition.
2. Applicable models only

RELATED CODES	
Confined Space	OSHA 29 CFR 1926.404 (b)(1)(ii), OSHA 29 CFR 1926.405 (a)(2)(ii)(G)
Construction Sites	(NEC 590.6)
Commercial Garages	(NEC 511.12)
Outdoor Signs	(NEC 600.10)
Fountains & Water Displays	(NEC 680.58)
Spa & Hot Tubs	(NEC 680.40)
Marinas & Boat Yards	(NEC 555.3)

APPLICATION OPPORTUNITIES:

Electrical wet locations
Power generators
Agricultural equipment
Outdoor electrical equipment
Cement cutting equipment
Portable electric heaters
Submersible pumps
Pipeline heaters
Automotive garages
Industrial part washers
Outdoor signage
De-icing equipment (roof heaters)

DECISION TABLES

PGFS - 4 3 0 0 5

1 Product Type

2 Voltage
- C 120/240 VAC split Ø
- 4 120/208 VAC 3Ø
- 7 240 VAC 3Ø
- 8 208 VAC 3Ø
- B 277 VAC 3Ø

3 Ampacity
- 3 30 amps

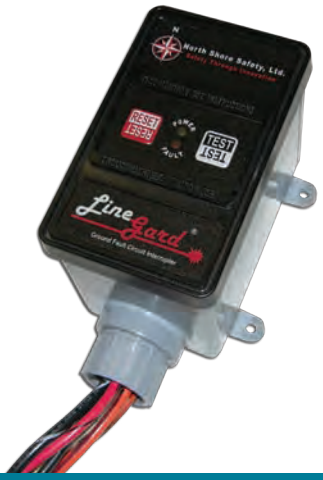
4 Reset Type [1]
- 0 Manual
- 1 Automatic

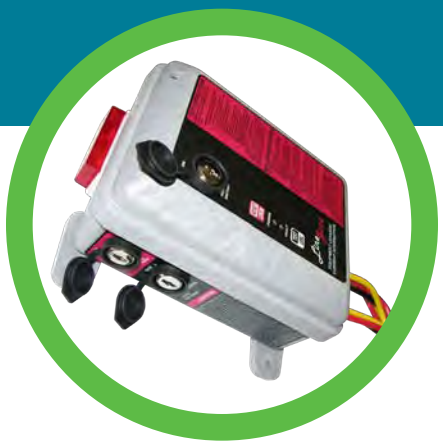
5 Fault Output Options
- 0 None

6 Mounting Type
- 5 Panel mount

*Note: 1. Manual configuration should be specified if automatic power-up, after power restoration of circuit power, could create an unsafe condition.

Flying Leads (Splice-in)





LineGard | PGFS Series

40, 50, 60 Amp Permanent Series (Splice-In) GFCI / ELCI

INTRODUCTION

The LineGard™ 40, 50 and 60 Amp Permanent Series is an industrial grade ground fault interrupter device designed and manufactured by North Shore Safety, Ltd., a leader in innovated safety products. These units are ideal for both new and existing circuit installations and have a unique design that offers the flexibility of splicing this device anywhere within the length of a circuit run.(Note: ELCI only protects downstream or "load side") This convenience allows the installer to place this ELCI at an accessible location for the end user.

As configured the device has three fault threshold settings of 6mA, 10mA and 30mA, with all engineered trip times of 25mS or less. These units come standard with 24" lead wires for electrical splicing and two 1" flexible conduit fittings for integration to 1" flexible or burial conduit. All units are MADE IN THE USA and are UL 1053 Compliant.

FEATURES

- Power and fault status indicators
- Double insulated user interface
- Chemical and UV resistant enclosure
- UL 1053 Compliant
- 40, 50 and 60 amp configurations in 1Ø 120 VAC, 1Ø 240 VAC, 120/240 VAC, 3Ø 240 VAC, 3Ø 208 VAC, 3Ø 277 VAC (Available with or without neutral), 3Ø 277/480, 3Ø 480 VAC, 3Ø 600 VAC
- Fault level key switch - max. trip threshold 6mA, 10mA, and 30mA
- Surge protection optional
- NEMA 4X wet location rated (indoor / outdoor)
- Automatic or manual reset key switch[1]
- Xenon strobe indication on ground fault

SPECIFICATIONS

Listing Type	UL 1053 Compliant
Rated Supply Voltage	120 VAC 1Ø to 600 VAC 3Ø
Rated Current	40 thru 60 Amps or rating of wiring device and/or cable
Trip Level	Field selectable threshold @ 6mA, 10mA and 30mA
Operating Frequency	60 Hz
Reset Type[1]	Field selectable automatic or manual[1]
Phase	Single, dual and 3 phase
Response Time	25mS max
Operating Temperature	–35°C to 66°C
Operating Voltage Range	85% to 110% of rated VAC
Let-Go Voltage	60% of supply voltage
Open Neutral Protection	Trips upon loss of neutral
Grounded Neutral Protection	Trips if ground and neutral touch at load side

1. Manual configuration should be specified if automatic start-up after power restoration of circuit power creates an unsafe condition.

RELATED CODES	
Confined Space	OSHA 29 CFR 1926.404 (b)(1)(ii), OSHA 29 CFR 1926.405 (a)(2)(ii)(G)
Construction Sites	(NEC 590.6)
Commercial Garages	(NEC 511.12)
Outdoor Signs	(NEC 600.10)
Fountains & Water Displays	(NEC 680.58)
Spa & Hot Tubs	(NEC 680.40)
Marinas & Boat Yards	(NEC 555.3)

APPLICATION OPPORTUNITIES:

Electrical wet locations
Power generators
Agricultural equipment
Outdoor electrical equipment
Cement cutting equipment
Portable electric heaters
Submersible pumps
Pipeline heaters
Automotive garages
Industrial part washers
Outdoor signage
De-icing equipment (roof heaters)

DECISION TABLES

PGFS - 4 5 4 5 6

1 Product Type

2 Voltage

1	120 VAC 1Ø	2	240 VAC 1Ø
4	120/208 VAC	5	480 VAC 3Ø
6	600 VAC 3Ø	7	240 VAC 3Ø
8	208 VAC 3Ø	9	208 VAC 1Ø
0	277/480 VAC	A	347/600 VAC
B	277 VAC 3Ø	C	120/240 VAC
D	277 VAC 1Ø		

3 Ampacity

4	40 amps
5	50 amps
6	60 amps

4 Power-up

4	Key Switch Auto / Manual

5 Fault Output Options

5	Alarm Strobe & SEL fault

6 Mounting

6	Surface Mount