



LineGardTM
Always on duty

30 AMP PERMANENT SERIES SINGLE AND MULTIPHASE GFCI



PRODUCT FEATURES

- Various voltages available (see configuration table)
- TYPE 4X wet location rated indoor/outdoor
- Industrial design for rough service applications
- Enclosure is Chemical and U.V. resistant
- Double insulated user interface for added safety
- Largest 30 Amp switching contacts in the industry (high reliability)
- Available in Automatic or Manual (safe start) reset models
- Open neutral protection (only on applicable models)
- Dual indication lights displaying power and fault status
- Grounded neutral protection (only on applicable models)
- Solid wires (input) striped wires (output)
- Surface mountable (4 location) Panel mountable (2 blind cover holes)
- Meets UL 943 self test requirements
- 1Ø cULus listed to UL 943 Class A GFCI (277 VAC 1Ø - no agency)
- 3Ø UL 943 Class A GFCI and 3Ø cCSAus certified to CSA-C22.2 No. 144 (exception 240 VAC 3Ø - cCSAus only)

PRODUCT OVERVIEW

The **LineGard™** 30 Amp Permanent Series single and multiphase GFCI is ideal for both new and existing circuit installations. This GFCI has a unique design that offers the flexibility of splicing-in the protection of a GFCI anywhere within the length of a circuit run. This convenience allows the installer to place this GFCI at an accessible location for the end user. Unlike breaker style GFCIs which have limitations of circuit length from the service panel: the Permanent Series GFCI is installed at the point of use and thus has no restrictions to circuit length.

The **LineGard™** 30 Amp Permanent Series GFCI can be integrated directly into a circuit or paired in tandem with an approved receptacle and enclosure. Note that once a receptacle has been integrated with a Permanent Series GFCI and because this device incorporates open neutral protection, the integrated system meets the requirement for confined space OSHA 29 CFR 1926.404(b)(1)(ii) and 29 CFR 1926.405(a)(2)(ii)(G). Thus any cord set plugged into this system becomes compliant, eliminating the need to upgrade equipment cord sets in this confined space.

All units have 18" splicing lead wires, a 3/4" NPT fitting that can connect to 3/4" PVC, EMT, Burial and Flexible conduits. In addition, the unit can be installed as a panel mount. Multiple fault output options are available. All units are available in an Automatic or Manual (safe start) reset type.

Note: ground wire is connected externally to GFCI device and does not enter the GFCI housing. Units are UL 943 and CSA C22.2 No. 144 listed. (277 VAC are non UL or CSA).

All **LineGard™** 30 Amp Permanent Series GFCIs are proudly assembled in the U.S.A in ISO certified facilities and are UL and/or cUL listed to UL 943. (cULus recognized with flying leads) (exception 277V & 240V 3Ø)



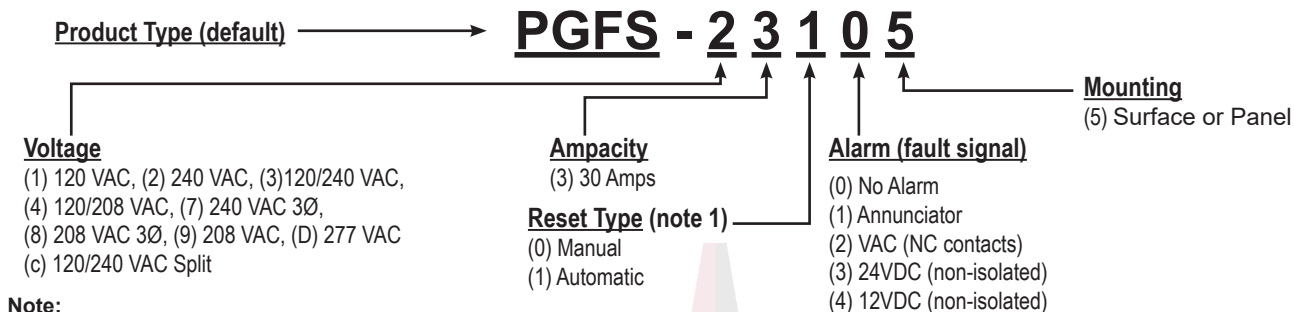
PRODUCT SPECIFICATION

Type:	Class A
Voltage:	120VAC, 208VAC, 240VAC, 120/240VAC, 120/208VAC 3Ø, 208VAC 3Ø, 240VAC 3Ø, (277VAC)
Operating Voltage Range:	85% TO 110% of rated voltage
Current:	Up to 30 Amps or receptacle device rating
Frequency:	60 Hz, (50 Hz available non-UL)
Trip Level:	5 +/- 1mA
Phase:	Single, Split, and 3Ø (WYE and Delta)
Response Time:	25 mS max @ 500 Ohm Fault
Operating Temperature:	-35°C to 66°C
Reset Type:	Automatic or Manual (safe start)*
Open Neutral Protection:	Opens upon loss of neutral (only on applicable models)
Grounded Neutral Protection:	Trips if ground and neutral touch at load side (only on applicable models)
Enclosure:	NEMA 4X wet location rated
Switch Interface:	Double insulated
Latching Mechanism:	Electro-magnetic
Agency Approval:	cULus, cCSAus except 277VAC

***Auto reset** Allows power downstream as long as power is available. It also will allow power downstream upon restoration of lost power. If the unit trips due to a fault condition the reset button will need to be pressed. Ideal for most applications (refrigeration, lighting, pumps, machinery, etc)

***Manual reset** Allows power downstream only after the reset button is pressed. Any loss or interruption in power or a fault condition will put the unit in to fault mode and will require the reset button to be pressed before allowing power downstream. Used for safe start applications (power saws or equipment that would present an unsafe condition upon automatic power restoration)

DECISION TABLE



- Note:**
1. Manual configuration should be specified if automatic power-up, after power restoration of circuit power, could create an unsafe condition.
 2. Units are configured with 18in of 10AWG, MTW / THHW / AWM, 105C, 600V, individual conductors.

LINEGARD 30 AMP PERMANENT SERIES SINGLE PHASE GFCI PRODUCT CONFIGURATION TABLE

MODEL	VOLTAGE					AMP	POWER-UP		FAULT OUTPUT OPTIONS					TYPE
	120V (1)	240V (2)	208V (9)	277V (D)	120/240V (3)		MAN (0)	AUTO (1)	NONE (0)	ANNUN. (1)	VAC* (2)	24VDC (3)	12VDC (4)	
PGFS-13005	1					3	0		0					5
PGFS-23005		2				3	0		0					5
PGFS-93005			9			3	0		0					5
PGFS-D3005				D		3	0		0					5
PGFS-33005					3	3	0		0					5
PGFS-13105	1					3		1	0					5
PGFS-23105		2				3		1	0					5
PGFS-93105			9			3		1	0					5
PGFS-D3105				D		3		1	0					5
PGFS-33105					3	3		1	0					5
PGFS-13015	1					3	0			1				5
PGFS-23015		2				3	0			1				5
PGFS-33015					3	3	0			1				5
PGFS-13115	1					3		1		1				5
PGFS-23115		2				3		1		1				5
PGFS-33115					3	3		1		1				5
PGFS-13025	1					3	0				2			5
PGFS-23025		2				3	0				2			5
PGFS-33025					3	3	0				2			5
PGFS-13125	1					3		1			2			5
PGFS-23125		2				3		1			2			5
PGFS-33125					3	3		1			2			5
PGFS-13035	1					3	0					3		5
PGFS-23035		2				3	0					3		5
PGFS-33035					3	3	0					3		5
PGFS-13135	1					3		1				3		5
PGFS-23135		2				3		1				3		5
PGFS-33135					3	3		1				3		5
PGFS-13045	1					3	0						4	5
PGFS-23045		2				3	0						4	5
PGFS-33045					3	3	0						4	5
PGFS-13145	1					3		1					4	5
PGFS-23145		2				3		1					4	5
PGFS-33145					3	3		1					4	5

NOTE:
 *VAC FAULT OUTPUTS ARE AT LINE VOLTAGE AND ARE NOT GFCI PROTECTED (NOTE: 4 WIRE 120/240VAC CONFIGURATION IS A 240VAC OUTPUT)
 **NO NEUTRAL DISCONNECT

30 AMP MULTIPHASE PRODUCT CONFIGURATION TABLE

PGFS -	X				3	X		X	X
MODEL	VOLTAGE				AMP	POWER-UP		FAULT OUTPUT OPTIONS	TYPE
	120/240V SPLIT Ø (C)	120/208V 3Ø WYE (4)	240V 3Ø (7)	208V 3Ø (8)	30 (3)	MANUAL (0)	AUTO (1)	NONE (0)	SURFACE OR PANEL MOUNT (5)
PGFS-C3005	C				3	0		0	5
PGFS-73005			7		3	0		0	5
PGFS-83005				8	3	0		0	5
PGFS-43005		4			3	0		0	5
PGFS-C3105	C				3		1	0	5
PGFS-73105			7		3		1	0	5
PGFS-83105				8	3		1	0	5
PGFS-43105		4			3		1	0	5



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Dimensions

