



**LineGard**<sup>®</sup>  
*Always on duty*

## 30 AMP PERMANENT SERIES SINGLE AND MULTIPHASE ELCI



### 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
- Available in Automatic or Manual (safe start) reset models
- Open neutral protection (only on applicable models)
- Available in elevated trip configuration (10 mA, 20 mA, 30 mA)
- Dual indication lights displaying power and fault status
- Flying leads for field splicing
- Solid wires (input) striped wires (output)
- Surface mountable (4 location) Panel mountable (2 blind cover holes)
- 1Ø and 3Ø cCSAus certified to CSA-C22.2 No. 144 (277 VAC not listed)

## PRODUCT OVERVIEW

The **LineGard**® 30 Amp Permanent Series single and multiphase ELCI is ideal for both new and existing circuit installations. This ELCI has a unique design that offers the flexibility of splicing-in the protection of a ELCI anywhere within the length of a circuit run. This convenience allows the installer to place this ELCI at an accessible location for the end user.

Unlike breaker style ELCIs which have limitations of circuit length from the service panel: the Permanent Series ELCI is installed at the point of use and thus has no restrictions to circuit length by definition.

The **LineGard**® 30 Amp Permanent Series ELCI can be integrated directly into a circuit or paired in tandem with an approved receptacle and enclosure.

All units have 18" splicing lead wires, a ¾" NPT fitting that can connect to ¾" 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 ELCI device and does not enter the ELCI housing. Units CSA C22.2 No. 144 listed. (277 VAC not listed).



**North Shore Safety** offers custom assemblies in addition to our standard models. All custom assemblies can be integrated with various wiring devices, cord lengths, or wire terminations for convenience of use and installation.

All **LineGard**® 30 Amp Permanent Series ELCIs are proudly assembled in the U.S.A in ISO certified facilities and are cCSAus. (exception 277V).

## PRODUCT SPECIFICATION

<b>Type:</b>	ELCI
<b>Voltage:</b>	120VAC, 208VAC, 240VAC, 120/240VAC, 120/208VAC 3Ø, 208VAC 3Ø, 240VAC 3Ø, (277VAC)
<b>Operating Voltage Range:</b>	85% TO 110% of rated voltage
<b>Current:</b>	Up to 30 Amps or receptacle device rating
<b>Frequency:</b>	60 Hz, (50 Hz available)
<b>Trip Level:</b>	10 mA, 20 mA, 30 mA
<b>Phase:</b>	Single, Split, and 3Ø (WYE and Delta)
<b>Response Time:</b>	25 mS max @ 500 Ohm Fault
<b>Operating Temperature:</b>	-35°C to 66°C
<b>Reset Type:</b>	Automatic or Manual (safe start)*
<b>Open Neutral Protection:</b>	Opens upon loss of neutral (only on applicable models)
<b>Enclosure:</b>	NEMA 4X wet location rated
<b>Switch Interface:</b>	Double insulated
<b>Latching Mechanism:</b>	Electro-magnetic
<b>Agency Approval:</b>	cCSAus

\***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

Product Type (default) →

## PGFS - 2 3 1 0 5 - 138

**Voltage**

(1) 120 VAC, (2) 240 VAC, (3) 120/240 VAC,  
 (4) 120/208 VAC 3Ø, (7) 240 VAC 3Ø,  
 (8) 208 VAC 3Ø, (9) 208 VAC, (D) 277 VAC  
 (C) 120/240 VAC Split

**Ampacity**

(3) 30 Amps

**Reset Type (note 1)**

(0) Manual  
 (1) Automatic

**Alarm (fault signal)**

(0) No Alarm  
 (1) Annunciator  
 (2) VAC (NC contacts)  
 (3) 24VDC (non-isolated)  
 (4) 12VDC (non-isolated)

**Mounting**

(5) Surface or Panel

**Trip Level**

(98) 10mA  
 (291) 20mA  
 (138) 30mA

**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 18 in of 10AWG, MTW / THHW / AWM, 105C, 600V, individual conductors.

## LINE GARD 30 AMP PERMANENT SERIES SINGLE PHASE ELCI PRODUCT CONFIGURATION TABLE

MODEL	VOLTAGE					AMP 30A (3)	POWER-UP		FAULT OUTPUT OPTIONS					TYPE SURFACE OR PANEL MOUNT (5)
	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:**

\*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 PERMANENT SERIES MULTIPHASE ELCI PRODUCT CONFIGURATION TABLE

<b>PGFS -</b>	<b>X</b>				<b>3</b>	<b>X</b>		<b>X</b>	<b>X</b>
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)	30A (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



## 30 AMP PERMANENT SERIES SINGLE AND MULTIPHASE ELCI



### Dimensions

