



NORTH SHORE SAFETY ——— 40,50,60 AMP PORTABLE SERIES ELCI



Product Features

- 40, 50, 60 Amp
- Voltage range 120 VAC – 600 VAC - single, dual, and 3Ø (WYE and Delta)
- Enclosure is fiberglass reinforced plastic – withstands Chemical and U.V. light exposure
- NEMA 4X wet location rated
- Double insulated user interface for added safety
- Industrial design – indoor/outdoor application use
- UL 1053 compliant
- Key power switch on/off
- Automatic or Manual (safe start) reset key selectable
- Fault level key switch – max trip level threshold settings of 6mA, 10mA, and 30mA
- Dual indication lights displaying power and fault status
- Open neutral protection (on applicable models)
- Grounded neutral protection (on applicable models)

Product Overview

Industrial Grade Equipment Leakage Circuit Interrupter (ELCI) is designed to protect and safeguard equipment, personnel and electrical circuits from ground fault leakage. This line of product mitigates the effects that a ground fault may have on your integrated equipment while also providing substantial shock protection for humans. As configured, the ELCI has three fault threshold settings of 6mA, 10mA, and 30mA. While all unit settings have engineered trip times of 25mS or less at 500 Ohms, the lowest fault threshold setting (6mA) offers the greatest level of personnel protection and the remaining fault threshold settings offer a significant degree of protection for applications such as welders, pumps, motors, and generators and come standard with selectable key switching for fault level threshold, power-on/off and reset type (Auto vs. Manual – safe start) settings. The enclosure is constructed from high fiberglass reinforced plastic that withstands Chemical and U.V. light exposure and the end-product meets or exceeds a NEMA 4X wet location rating. These devices are designed for indoor/outdoor applications as all enclosure entry points are sealed to prevent water intrusion and/or tampering. In addition, to aid in the notification of a ground fault condition, all units come standard with two LEDs showing power and fault status. These units come standard with a 6ft primary cord length and a 6ft secondary cord length. The enclosure is factory configured with floor mounting feet but is additionally supplied with wall or surface mounting feet for more permanent installations. Although the Portable ELCIs come standard with flying leads for field configuration, they can be integrated with NEMA or IEC 309 devices from the factory as a custom device (watertight devices are also offered).

Note: With acceptable volume North Shore Safety can reduce overall product cost by eliminating selectable features and creating fixed set point ELCIs. Consult factory on your application and the feasibility of a fixed set point ELCI.

Product Specifications

Type:	Equipment Leakage Circuit Interrupter (ELCI)
Voltage:	120 VAC to 600 VAC (See installation instructions for all available configurations)
Operating Voltage Range:	Typically 85% to 110% of rated voltage
Current:	40, 50, 60 Amps
Short Circuit Interrupt:	5K AIC
Frequency:	60 Hz, 50 Hz (available)
Trip Level:	Field selectable trip threshold setting of 6mA, 10mA, and 30mA
Phase:	Single, Dual Voltage, and 3Ø (WYE and Delta)
Response Time:	25mS max @ 500 Ohm Fault
Operating Temperature:	-35°C to 66°C
Let Go Voltage:	Typically 60% rated voltage (with no phase loss)
Reset Type:	Field selectable – Automatic or Manual (safe start) reset
Open Neutral Protection:	Trips upon loss of neutral (only on applicable models)
Grounded Neutral Protection:	Trips if ground and neutral touch at load side (only on applicable models)
Power-Up:	Key switch initiated (power lockout)
Enclosure:	NEMA 4X wet location rated
Switching Interface:	Double insulated
Latching Mechanism:	Electro-magnetic
Agency Approval:	UL 1053 compliant

DECISION TABLE

Product Type (default)		PGFI - 1 5 4 5 N*		Connectors
				(N) Flying Leads
Voltage		Ampacity		Power Up
(1) 120 VAC 1Ø	(2) 240 VAC 1Ø	(4) 40 Amps		(4) Key Switch
(5) 480 VAC 3Ø	(6) 600 VAC 3Ø	(5) 50 Amps		Auto/Manual reset
(7) 240 VAC 3Ø	(8) 208 VAC 3Ø	(6) 60 Amps		Power on/off
(9) 208 VAC 1Ø	(D) 277 VAC 1Ø			Leakage trip level (6, 10, and 30mA)
(C) 120/240 VAC Split Ø				
				Secondary Cord
				(5) 6' Black, SOOW

Note: *Decision table part number shown is a 120 VAC 1Ø, 50 Amp, Key switch Auto/Manual, Power on/off, Selectable trip level 6, 10, 30 mA, 6' Black SOOW with Flying Leads



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40, 50, AND 60 AMP PRODUCT CONFIGURATION TABLE

PGFI - MODEL	X										X			X	X	X
	Voltage										AMP*			POWER-UP	SEC	CONN
	120V 1Ø (1)	240V 1Ø (2)	208V 1Ø (9)	277 1Ø (D)	120/240V (C)	240V 3Ø (7)	208V 3Ø (8)	277V 3Ø (B)	480V 3Ø (5)	600V 3Ø (6)	40A (4)/HP	50A (5)/HP	60A (6)/HP	KEY SWITCH (4)**	6' BLK (SEOW) (5)	FLYING LEADS (N)
PGFI-1445N	1										4			4	5	N
PGFI-2445N		2									4			4	5	N
PGFI9445N			9								4			4	5	N
PGFI-D445N				D							4			4	5	N
PGFI-C445N					C						4			4	5	N
PGFI-7445N						7					4			4	5	N
PGFI-8445N							8				4			4	5	N
PGFI-B445N								B			4			4	5	N
PGFI-5445N									5		4			4	5	N
PGFI-6445N										6	4			4	5	N
PGFI-1545N	1											5		4	5	N
PGFI-2545N		2										5		4	5	N
PGFI-9545N			9									5		4	5	N
PGFI-D545N				D								5		4	5	N
PGFI-C545N					C							5		4	5	N
PGFI-7545N						7						5		4	5	N
PGFI-8545N							8					5		4	5	N
PGFI-B545N								B				5		4	5	N
PGFI-5545N									5			5		4	5	N
PGFI-6545N										6		5		4	5	N
PGFI-1645N	1												6	4	5	N
PGFI-2645N		2											6	4	5	N
PGFI-9645N			9										6	4	5	N
PGFI-D645N				D									6	4	5	N
PGFI-C645N					C								6	4	5	N
PGFI-7645N						7							6	4	5	N
PGFI-8645N							8						6	4	5	N
PGFI-B645N								B					6	4	5	N
PGFI-5645N									5				6	4	5	N
PGFI-6645N										6			6	4	5	N

DIMENSIONS:



OVERALL UNIT DEPTH IS 4.38"

*NOTE THAT THE HORSEPOWER RATING IS NOT INCORPORATED IN THE PART NUMBERING SCHEME BUT DEPENDENT ON VOLTAGE AND AMPERAGE
 **KEY SWITCH IS AUTO/MANUAL, POWER ON/OFF, SELECTABLE TRIP LEVEL