

PowerSure LPL / IL Series

Technical Specification

IL120S50

50,000 Amps Per Phase



The *PowerSure Low Exposure Series* are electronic grade surge protective devices designed to protect electronic equipment and microprocessor based systems from transients on sub-distribution panels, branch panels, or equipment located in low exposure locations.

While every precaution has been taken to ensure accuracy and completeness in this document, Emerson Network Power Surge Protection assumes no responsibility, and disclaims all liability for damages resulting from use of this information or any errors or omissions.

Nominal Operating Voltage / Phase Configuration	120/240VAC, Single Phase, 3 Wire + Gnd
Operating Voltage Range	120 VAC +/- 25%
Operating Frequency Range	47 - 63 Hz
Fault Current Rating	22kAIC
ANSI/IEEE C62.41 Category	A & B
SPD Location Type	Type 2
Nominal Discharge Current (IN)	3kA
Connection Type	Conductors - 12 AWG, Form C Contacts - 18 AWG
Capacity	Continuous (Parallel Connection)
Size	4.72 x 4.72 x 2.36 (Inches)
Enclosure Rating	ABS Plastic, 94V-0, Type 1
Weight	5 lbs. (2.3 kgs.)
Modes Of Protection	L-N, L-G, L-L, N-G
Indication of Suppression Status	External LED, Form C contacts
50Ω EMI/RFI Attenuation - Normal Mode	40 dB Typical
Response Time	<.5 ns
Operating Temperature	- 40°C to 45°C
Operating Humidity	0% to 95% non-condensing
Certifications	UL 1449 Third Edition (2009), CUL
Warranty	5 Years

Maximum Continuous Operating Voltage (MCOV)

Line to Line / Line to Neut / Line to Gnd / Neut to Gnd	300V / 150V / 150V / 150V		
UL 1449 Second Edition SVR's		UL 1449 Third Edition VPR's	
Line to Neutral	500 Vpk	Line to Neutral	600 Vpk
Line to Ground	500 Vpk	Line to Ground	700 Vpk
Line to Line	800 Vpk	Line to Line	1000 Vpk
Neutral to Ground	500 Vpk	Neutral to Ground	700 Vpk

ANSI/IEEE C62.41 Cat C Attenuation (6 kV, 10 kA, 8 x 20 μs)

Line to Neutral	590 Vpk
Line to Ground	590 Vpk
Line to Line	
Neutral to Ground	590 Vpk

Maximum Surge Energy (8 x 20 μs)

Line to Neutral	576 Joules
Line to Ground	576 Joules
Line to Line	576 Joules
Neutral to Ground	576 Joules
Total	2,880 Joules

Maximum Surge Current Capacity (8 x 20 μs)

Line to Neutral	25,000 Amps
Line to Ground	25,000 Amps
Line to Line	50,000 Amps
Neutral to Ground	25,000 Amps
Total	100,000 Amps

