



PowerSure® Panel TVSS

Power Protection

SURGE SUPPRESSION SOLUTIONS FOR DISTRIBUTION PANELS



Electric power line disturbances such as high voltage transients can disrupt or damage sensitive electronic equipment — causing a major loss in productivity and money. Liebert understands this problem and offers the PowerSure® Panel Low and Medium Exposure surge suppression systems — the reliable way to keep these power problems from getting into your facility in the first place.

PowerSure® Panel Low Exposure — Designed for use on branch panels or equipment in low exposure locations. Available up to 100kA/phase surge current capacity. LED status indication and Form C contacts for remote indication are standard.

PowerSure® Panel Medium Exposure — Offers protection from transients on distribution panels or any medium exposure location.

Available in 100kA/phase and 160kA/phase, all mode and two mode protection, small footprints, NEMA 12 enclosure, silver link fusing with thermal protection, all voltage and phase configurations, 5-year warranty.



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PowerSure® Panel TVSS Technical Specifications

	Low Exposure	Medium Exposure
Connection Type	Parallel	Parallel
Operating Voltage Range	-15%	-15%
Surge Current Capacity	25kA, 50kA or 100kA	100kA or 160kA
Fault Current Rating (AIC)	14kAIC	65kAIC
Dimensions	4.72"x4.72"x2.36"	(160 kA units) 8"x6"x4" (100 kA units) 6"x4"x3"
Operating Frequency Range	47...63 Hz	47...63 Hz
Capacity	Continuous	Continuous
EMI/RFI Attenuation	40 dB typical	40 dB typical
Response Time	<0.5 nanoseconds	<0.5 nanoseconds
Dry Contact rating	125 VAC, 8.0A, 1.0pf	125 VAC, 8.0A, 1.0pf
Operating Temperature	-40°C to +50°C	-40°C to +50°C
Operating Humidity	0% to 95%	0% to 95%
Status Indication	LED, Dry Contacts	LEDs, Dry Contacts
Certifications	UL 1449, CUL(CE-optional)	UL 1449, CUL
Warranty	5-Ye ars	5-Years

UL 1449 (second edition) Classification

	Low Exposure	Medium Exposure
120 Volt systems	400 Volts all modes	400 Volts all modes
208 through 277 Volt systems	800 Volts all modes	800 Volts all modes
480 Volt systems	1,500 Volts all modes	1,500 Volts all modes

Ordering Information

Building a Low and Medium Exposure Model Number:

Examples

L P L 1 2 3 (Low Exposure Unit)
L P M 1 2 3 (Medium Exposure Unit)

(use Model ID column when determining 1, 2, 3 portion of Model Number)

1	Nominal Voltage Requirements			Model ID
	L-N	L-L	L-G	
	120	N/A	120	120
	120	208	120	120
	120	240	240	120
	N/A	208	208	208
	230	400	230	230
	N/A	240	240	240
	277	480	277	277
	N/A	400	400	400
	N/A	480	480	480

2	System Configuration	Model ID
	Single (2 Wire + Gnd)	N or L
	Split (3 Wire + Gnd)	S
	Wye (4 Wire + Gnd)	Y
	Delta Hi-Leg (4 Wire + Gnd)	H
	Delta (3 Wire + Gnd)	D

3	Surge Current Capacity	Model ID
	(Low Exposure)	
	100 kA/Phase (L-N: 50 kA + L-G: 50 kA; N-G: 50 kA)	100
	50 kA/Phase (L-N: 25 kA + L-G: 25 kA; N-G: 25 kA)	50
	25 kA/Phase (L-N: 25 kA; N-G: 25 kA)	25-2
	(Medium Exposure)	
	160 kA/Phase (L-N: 80 kA + L-G: 80 kA; N-G: 80 kA)	160
	100 kA/Phase (L-N: 100 kA; N-G: 100 kA)	100-2

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EMERSON NETWORK POWER WEB SITE
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