

Technical Specification

Islatrol

BC-3-450DELTA

40,000 Amps Per Phase



The Emerson Network Power Broadcast (BC) Filter systems are solid-state low-pass nonlinear series-connected filtering devices. By closely controlling voltage at every location on the sine wave, our unique Active Tracking Filter technology protects sensitive solid-state electronic equipment from the potentially damaging effects of low-energy voltage transients and the ringwaves that follow. The filter also stores and releases energy to fill and reduce sine wave spikes and notches. Because of its unique Active Tracking design, there is no significant deterioration of the filtering components. Day after day, your unit will perform with unparalleled dependability.

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	440, 480VAC, Three Phase Delta, 3 Wire + Gnd
Operating Voltage Range	480 VAC \pm 15%
Operating Frequency Range	47 - 63 Hz
Fault Current Rating	N/A
ANSI/IEEE C62.41 Category	Category A, B, or C Locations
Connection Type	"SERIES" Connected
Rated Capacity	50 Amperes
Size	20 x 16 x 9
Enclosure Rating	NEMA 12
Weight	65 lbs.
Modes Of Protection	Line to Line
50 Ω EMI/RFI Attenuation Normal Mode	40db min. (50kHz - 50MHz) Attenuation >50db to the surge withstand capability ringwave test (Cat. A and B)
Indication of Suppression Status	Red LED's
Response Time	Parallel TVSS - <.5 ns Series Filter - Instantaneous
Operating Temperature	- 40°C to +45°C @ full load. Derate linearly to 60% at +70°C
Operating Humidity	0% to 95% non-condensing
Certifications	UL 1283, CUL, CE
Warranty	10 Years Parts

Maximum Continuous Operating Voltage (MCOV)

Line to Neutral / Hi-Leg to Neutral	575 VAC
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Load Surge Current Rating

10 ms	10 x Nominal
1 sec	5 x Nominal
5 sec	2 x Nominal

ANSI/IEEE C62.41 Category A Ringwave (6kV, 200A, 100 kHz)

Normal Mode	3 V
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ANSI/IEEE C62.41 Category B Ringwave (6kV, 500A, 100 kHz)

Normal Mode	3.6 V
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Maximum Surge Current Capacity (8 x 20 μ s)

Line to Neutral	N/A
Line to Ground	N/A
Line to Line	40,000 Amps
Neutral to Ground	N/A
Total	120,000 Amps