

Islatrol™ IE Series

Active Tracking Filter™

The Islatrol™ IE is a series-connected DIN or flange mounted high-frequency noise filter and surge suppressor. Its ideal applications include critical industrial loads drawing up to 20 Amps of continuous current, while typical applications include any microprocessor-based products, including industrial PLCs, OEM applications, and motion control systems.

Features

- Multi-staged design, combining a unique hybrid clamping network with the active tracking technology of the Islatrol® family
- Surge current capacity — 45,000 Amps
- Transient protection in all modes: line to neutral, line to ground, and neutral to ground
- LED status indication and form C contact for remote indication
- DIN mountable enclosure
- ANSI/UL 1449 Third Edition Type 4, 1283, CUL recognized, CE
- 10 year warranty

Performance Technical Specifications

Model	L-N	L-G	N-G	L-L
IE-103 IE-105	400V	600V	600V	N/A
IE-110 IE-120	400V	600V	500V	N/A
IE-203 IE-205		1,000V		700V
IE-210 IE-220		900V		700V

Peak Surge Current Capability (8 x 20 µs)	
Line to Neutral	15,000 Amps
Line to Ground	15,000 Amps
Neutral to Ground	15,000 Amps
Total	45,000 Amps
Frequency Response (Forward-Reverse)	
Normal Mode	100 kHz to 50 MHz - 90 dB Min
Common Mode	5 MHz to 50 MHz - 60 dB Min
Typical Category A Ringwave (6 kV, 200 A, 100 kHz)	
Normal Mode/Common Mode	
3 Amp	1 V/300 V
5 Amp	0.7 V/292 V
10 Amp	0.7 V/300 V
20 Amp	0.7 V/300 V
Typical Category B Ringwave (6 kV, 500 A, 100 kHz)	
Normal Mode/Common Mode	
3 Amp	178 V/300 V
5 Amp	162 V/291 V
10 Amp	153 V/300 V
20 Amp	200 V/300 V

General Technical Specifications

MCOV	
120 Volt	150 VRMS
240 Volt	275 VRMS
Line Frequency	47 - 63 Hz
Connection	Terminal
Mounting Type	DIN/Flange
Weight	< 3 lbs
Response Time	
Normal Mode	< 0.5 ns
Common Mode	< 5 ns
Operating Temperature	-40°C to +45°C
	Derate Linearly to 60% at +70°C
Operating Humidity	0% to 95%

Ordering Information

Voltage*	Continuous Current	Model
120 V	3 Amps	IE-103
120 V	5 Amps	IE-105
120 V	10 Amps	IE-110
120 V	20 Amps	IE-120

Voltage*	Continuous Current	Model
240 V	3 Amps	IE-203
240 V	5 Amps	IE-205
240 V	10 Amps	IE-210
240 V	20 Amps	IE-220

** All voltage configurations are single phase - 2 wire + gnd.*

Dimensional Diagram

