



- ▶ Series-connected DIN/flange mount high-frequency noise filter/surge suppressor. Ideal applications include critical industrial loads drawing up to 20 amps of continuous current. 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
- ▶ UL 1449, 1283, CUL recognized, CE
- ▶ 10-year warranty

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%

UL 1449 Classification	
120V Normal Mode	330 Volts
120V Common Mode	400 Volts
240V Normal Mode	600 Volts
240V Common Mode	800 Volts

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	10 kHz to 50 MHz— 90 dB Min
Common Mode	5 MHz to 50 MHz— 60 dB Min

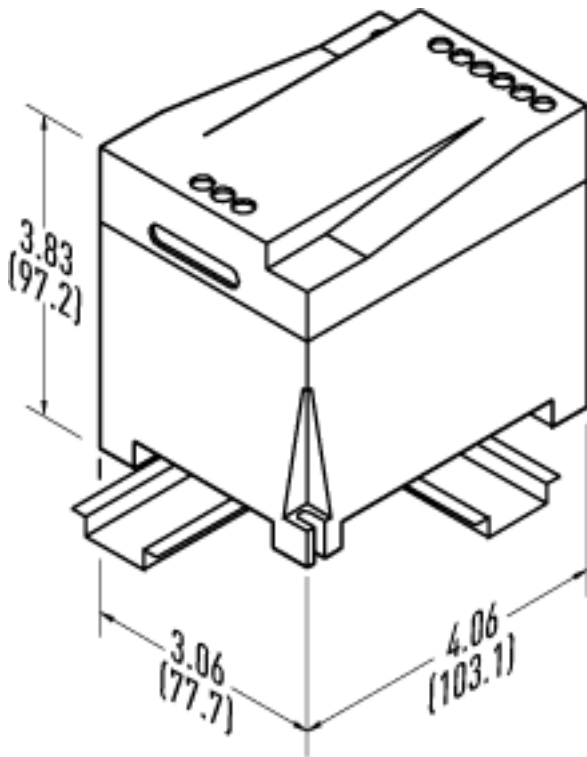
**Typical Category A Ringwave
(6 kV, 200A, 100 kHz)**

Normal Mode/Common Mode	
3 Amp	1V / 300V
5 Amp	0.7V / 292V
10 Amp	0.7V / 300V
20 Amp	0.7V / 300V

**Typical Category B Ringwave
(6 kV, 500A, 100 kHz)**

Normal Mode/Common Mode	
3 Amp	178V / 300V
5 Amp	162V / 291V
10 Amp	153V / 300V
20 Amp	200V / 300V

DIMENSIONAL DIAGRAM



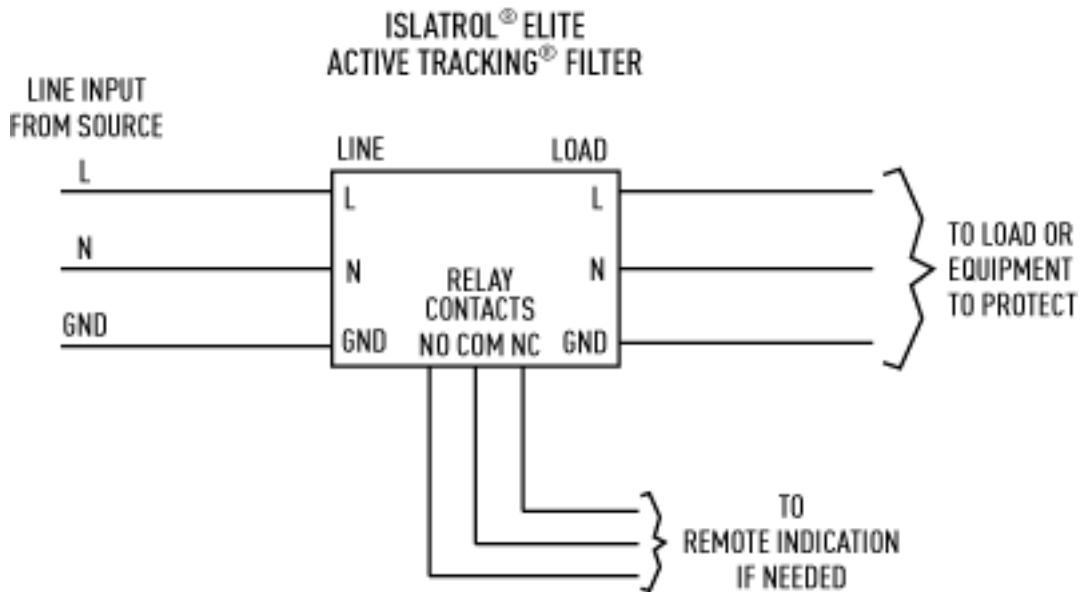
Metric Dimensions in mm
(shown in parentheses)

ORDERING INFORMATION

Voltage*	Continuous Current	Model
120V	3 Amps	IE-103
120V	5 Amps	IE-105
120V	10 Amps	IE-110
120V	20 Amps	IE-120
240V	3 Amps	IE-203
240V	5 Amps	IE-205
240V	10 Amps	IE-210
240V	20 Amps	IE-220

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

CONNECTION DIAGRAM



SYSTEM DESIGN