

■ **Filtering/Line Conditioning**



Islatrol® IE Series

Active Tracking Filter®

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

Performance Technical Specifications

UL 1449 Surge Voltage Rating

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	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%

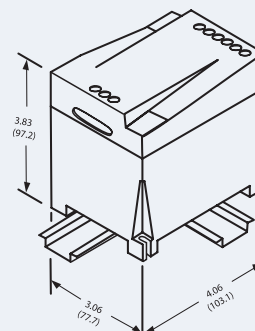
Ordering Information

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.

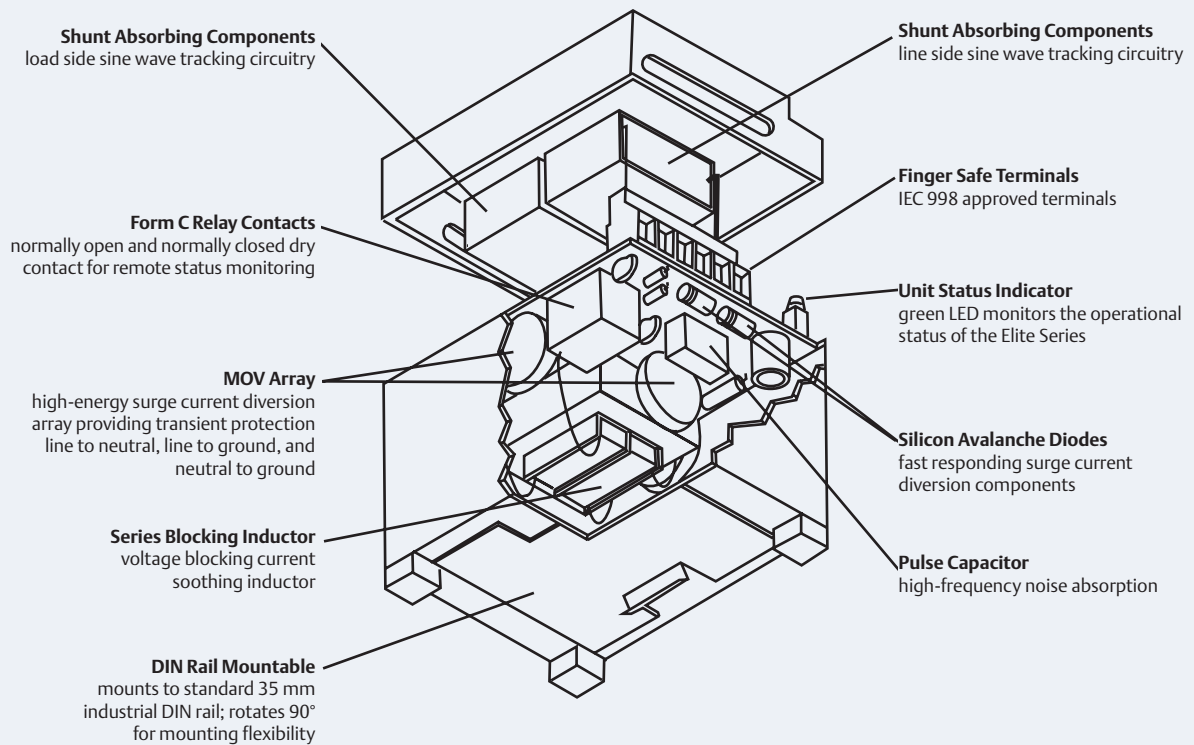
Dimensional Diagram



METRIC DIMENSIONS IN mm (SHOWN IN PARENTHESIS)

Islatrol® IE Series Active Tracking Filter®

System Design



Connection Diagram

