



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

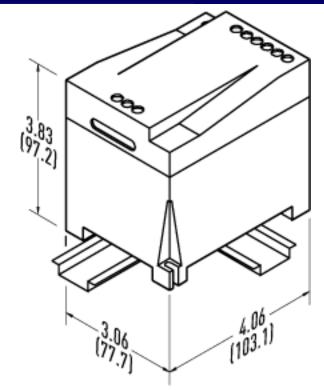
- Multi-staged design, combining a unique hybrid clamping network with the Active Tracking Technology of the Islatrol® family
- Surge current capacity—45,000 Amps
- ► Transient protection in all modes: line to neutral, line to ground, and neutral to ground
- LED status indication and form C contact for remote indication
- DIN mountable enclosure
- UL 1449, 1283, CUL recognized, CE
- ▶ 10-year warranty

GENERAL TECHNICAL SPECIFICATIONS

PERFORMANCE 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%		

DIMENSIONAL DIAGRAM

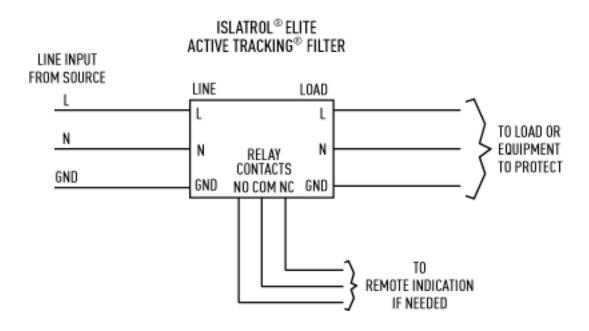


Metric Dimensions in mm (shown in parentheses)

UL 1449 Classification			
120V Normal Mode 330		330 Volts	
120V Common Mode 400 V		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	

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

Shunt Absorbing Components Shunt Absorbing Components line side sine wave tracking circuitry load side sine wave tracking circuitry Finger Safe Terminals Form C Relay Contacts IEC 998 approved terminals normally open and normally closed dry contact for remote status moitoring Unit Status Indicator green LED monitors the operational MOV Array status of the Elite Series high-energy surge current diversion array providing transient protection line to neutral, line to ground, and neutral to ground Silicon Avalanche Diodes fast responding surge current Series Blocking Inductor diversion components voltage blocking current šmoothing inductor Pulse Capacitor

DIN Rail Mountable

mounts to a standard 35mm industrial DIN rail; rotates 90° for mounting flexibility high-frequency noise absorption