

Surgeologic Type IESE

Surge Protective Device with Active Tracking Filter (SPD/ATF)

Surgeologic™ Type IESE with Active Tracking Filter technology offers high frequency noise filter capabilities with surge protection for loads up to 20 A of continuous current.

Type IESE is a DIN rail or flange mounted SPD/ATF designed to protect industrial critical loads.

Applications:

Designed to protect any microprocessor based products, including industrial PLCs, OEM applications, and motion control systems.

Features:

- Current: 3A, 5A, 10A, 20A
- Voltage: 120 - 240 V
- Connection: Terminal
- Frequency Response (Forward-Reverse):
 - Normal Mode: 100 KHz to 50 MHz -90 db Min
 - Common Mode: 5 MHz to 50 MHz -60 db Min
- Mounting: DIN rail or flange
- Multi-staged design featuring Active Tracking Filter Technology
- Surge current capacity 15,000A per mode
- Transient protection in all modes: line to neutral, line to ground, and neutral to ground
- LED status indication
- Form C contact for remote indication
- UL1449 4th edition Type 2; UL1283 – Electromagnetic Interference Filters; CSA C22.2 No. 8-13 CSA Electrical Notice 516



Benefits:

- Industrial low voltage data line surge protection conveniently installed inside a control/critical panel
- High-frequency noise filter with transient protection
- Compact high frequency noise filter and surge suppressor
- Din rail or flange mountable

Warranty

Type ICSE has a limited warranty of 5 years

Installation:



Catalog Numbers	Dimensions (W x L x D)
HFNF120IESE003	1.92 in. x 4.79 in. x 3.66 in. 48.76 mm x 121.66 mm x 92.96 mm
HFNF120IESE005	
HFNF240IESE003	
HFNF240IESE005	
HFNF120IESE010	2.56 in. x 4.79 in. x 3.66 in. 65.02 mm x 121.66 mm x 92.96 mm
HFNF240IESE010	
HFNF120IESE020	
HFNF240IESE020	

Commercial Reference	Service Voltage	MCOV	Continuous Current
HFNF120IESE003	120 V, 50/60 Hz, 1-phase (2 wire + ground)	150 V (L-N)	3 A
HFNF120IESE005			5 A
HFNF120IESE010			10 A
HFNF120IESE020			20 A
HFNF240IESE003	240 V, 50/60 Hz, 1-phase (2 wire + ground)	320 V (L-N)	3 A
HFNF240IESE005			5 A
HFNF240IESE010			10 A
HFNF240IESE020			20 A

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Performance

MCOV	150 V (L-N), 320 V (L-N)
Continuous Current	3 A, 5 A, 10 A, 20 A
Normal Discharge Current	3 kA
Fusing Circuit Breaker Size	25 A
Frequency Response (Forward-Reverse)	
Normal Mode:	100 KHz to 50 MHz -90 db Min
Common Mode:	5 MHz to 50 MHz -60 db Min

Mechanical Description

Mounting	35 mm DIN rail mounted inside an enclosure
Power Connection	Line/Neutral/Ground
Wiring (Copper Wire)	18-12 AWG, 14-10 AWG, 12-10 AWG
Terminal Torque	4 lb-in. (0.45 N-m) 7 lb-in. (1.81 N-m)
Operating Temperature	-40° F to +185° F (-40° C to +85° C)
Storage Temperature	-40° F to +140° F (-40° C to +60° C)

Diagnostics

Green status LEDs

Listings and Certification

UL1449/UL1283, CSA C22.2 No. 8-13,
CSA Electrical Notice 516

Life Is On

