

EMC-240B

Surge Arrestor/ Suppressor

Protects Connected Equipment

Fast Response Time

LED Protection Indicators

Automatic Instant Recovery

Metal Housing

cULus Listed / UL Listed to 1449

80kA Peak Surge Rating



Tii Technologies Inc.

Corporate Headquarters:

141 Rodeo Drive
Edgewood, NY 11717
Phone: 631.789.5000 • Fax: 631.789.5063
Toll Free: 888.844.4720
sales@tiitech.com

Locations:

South March
Long March Industrial Estate
Daventry, Northamptonshire, NN11 4PH, UK
Phone: +44 (0) 1327 301853
Fax: +44 (0) 1327 879532
sales@tiitech.co.uk

Av. José de Escandón y Helguera
No. 21 Ciudad Industrial
Matamoros, Tamaulipas, C.P. 87494, México
Phone: 868.812.8011 • Fax: 868.812.8025
salesmx@tiitech.com.mx

The **EMC-240B Surge Arrestor/Suppressor** is designed to protect powered OSP telecom cabinets, home electrical panels, or similar electronic equipment from destructive voltage surges. Wires exit from top of unit for easy panel mounting. Designed to be installed in standard two phase 120/240 Volt or single phase 110 Volt circuits. Front-facing LEDs indicate the protection circuitry is functioning properly.

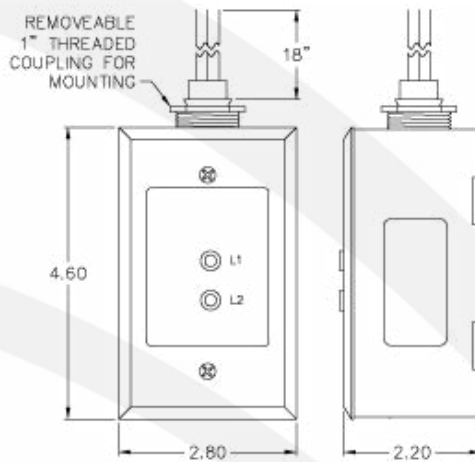
KEY PRODUCT BENEFITS

- ▶ Can be mounted on the AC service by conduit, junction box, or power panel utilizing a standard inch threaded hole.
- ▶ Green colored LED indicators show that protection is available and product is functioning properly.
- ▶ The EMC-240B features total solid state technology for reliability and quick response to surges. Two advanced, metal oxide varistors (MOV) are the primary protective elements. These MOVs are each capable of 40,000 amps of surge current.
- ▶ The protection components are designed to failshort and are fused. After a surge, the suppressor automatically recovers and is ready for the next surge. In a rare event of MOV failure, the fuse opens and the indicator LED extinguishes.

INDUSTRY STANDARDS

- ▶ cULus Listed / UL Listed to 1449

EMC-240B



Dimensions are in Inches

SPECIFICATIONS

Response Time	<5 Nanoseconds
Maximum Surge Current	40,000 Amps Per Line ^{∅ ∞}
Maximum Energy Absorption 2ms	360 Joules per Line
Initial Clamp Voltage (L-N)	240 Volts Nominal
Clamp Voltage @ 300A (L-N)	395 Volts Nominal
Clamp Voltage @ 1,000A (L-N)	450 Volts Nominal
Clamp Voltage @ 5,000A (L-N)	530 Volts Nominal
Clamp Voltage @ 10,000A (L-N)	600 Volts Nominal
Max Allowable Voltage (L-N)	150V rms 50-60Hz
Max Allowable Voltage (L-L)	275V rms 50-60 Hz
Failure Mode	Failsafe (short) and Fused
Failure Indication	LED Indicators
Surge Life @ 500A	>10,000 Occurrences
Surge Life @ 2,000A	>1,000 Occurrences
Surge Life @ 5,000A	>300 Occurrences
Surge Life @ 10,000A	>50 Occurrences
Operating Temperatures	-40° – +85°C

[∅] Maximum surge current capability may be higher when both black wires are tied together in 120-volt service application as shown in circuit below.

[∞] Current rating is limited by fuse in series.

Measurements are taken at the component connections. Response time and voltages at the equipment will be greater due to the inductance of the connecting wire to the EMC-240B.

All current test waveforms are 8 x 20 μs.

ORDERING INFORMATION

Model No.	Description
EMC-240B	AC Surge Arrester/Suppressor with Fuses and Failure Indicator, Top Wire Entry, 18" Wire Leads