SurgeFree

160MXT

Building Entry Protection

The 160MXT Series are brute force protectors designed for installation at the entrance of large to mid-sized facilities. The unit offers first-rate protection for 200kA applications at the main service panel. Redundant protection and complete diagnostics ensure continuous, reliable operation. All models include a twenty-year warranty on unit; lifetime on modules.

FEATURES

- 160MXT: Ip=200kA, 8x20µs
- Independent lab tested modules
- NEMA LS 1 1992
- Redundant modular protection withstands multiple lightning strikes.
 Uses 40mm MOVs
- Solid copper bus bar construction for minimal impedance and enhanced current sharing
- High performance, low inductance Micro-ZTM installed cable
- Field-replaceable protection modules for on-site maintenance
- At-a-glance monitoring system: Transient event counter, LED protection status indicators, audible alarm (with mute switch), and surge protected remote relay contacts
- Filtering standard on all XT models
- NEMA 4, Powder-Coated Steel Enclosure





Ipeak=200,000A

UL 1449, 3rd Ed. Listed

20-Year Warranty Lifetime Module Replacement

Filter Attenuation

MIL STD 220A (50 Ohm): 120VAC 240VAC 277VAC 480VAC -30db 100kHz 25kHz 80kHz 80kHz -40db 200kHz 100kHz 180kHz 180kHz -50db 280kHz 180kHz 210kHz 250kHz -60db 310kHz 200kHz 390kHz 390kHz 390kHz

SPD Type: Type 2 I_n: 20kA

Maximum Continuous Operating VAC (MCOV): 115% Rated Line Voltage

Varistor MCOV: 125% Rated Line Voltage Minimum

SCCR: Up to 100kA AIC Surge Current/Phase (8/20µs): 1 Event: 200kA.

Surge Life/Phase (8/20μs): 10,000 Events: 10kA

Surge Current/Mode (8/20µs): L-N: 120kA; L-G: 80kA; N-G: 120kA; L-L: 200kA

Surge Current/Mode (8/20µs), (Delta): L-L: 200kA; L-G: 200kA

Response Time: <5 ns

Status Indicators: LED Status Indicators, Event Counter, Audible Alarm, Protected Dry Contacts

Operating Altitude: 13,000ft. (4000m)
Temp. (Operating/Storage): -40° to +70°C/-40° to +85°C

Enclosure: NEMA 4, 14 gauge steel. powder coated Dimensions: 12" x 15" x 5.5" (305mm x 381mm x 140mm)

Mounting: 8" x 15.75"/.313" ID - 4 holes (203 x 400mm/8mm ID - 4 holes) Micro-Z Cable Connection: #10 AWG (5.27mm²)/.128 OD (3.4mm) 8ft. length (2.43m)

Conduit Connector: 1" Rain tight hub Weight: 35 lbs., (16.0kg)

UL File Number: E322161

UL Certification: UL Listed to 1449 3rd Edition

UL96A Lightning Protection Master Label Compliant

ARRA Certification: Complies with ARRA 1605 requirements



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Specifications • ANSI/IEEE C62.41-2002 • IEC 61643-1-1998 • UL 1449, 3rd Ed.

Building Entry Protection

Model 160MXT

Model 160MXT	Service	VPR L-N	VPR L-G	VPR N-G	VPR L-L	20kV, 1.2/50μs 10kA, 8/20μs L-N**
-120T	120/240VAC, 1φ, 3W+Gnd	800	900	700	1200	550
-120Y	120/208VAC, 3ф, 4W+Gnd, Wye	800	900	700	1200	550
-240DCT*	240/120/120VAC, 3φ, 4W+Gnd	800/1500	900/1500	1200	1200/2500	550/1040
-220Y	220/380VAC, 3ф, 4W+Gnd, Wye	1500	1500	1200	2500	1040
-240Y	240/415VAC, 3φ, 4W+Gnd, Wye	1500	1500	1200	2500	1040
-277Y	277/480VAC, 3φ, 4W+Gnd, Wye	1500	1500	1200	2500	1040
-240D	240VAC, 3φ, 3W+Gnd, Delta	n/a	1500	n/a	2500	1040 (L-G)

^{*} High-leg Delta Center Tapped

Energy Absorption (8/20µs) in joules: 11,000J - 43,200J

A Note On Headroom A surge protector responds to increases in voltage. Surge protectors triggered by the nominal line voltage are undesirable, consequently headroom is always factored into surge protector design. Long duration voltage swells occur on power lines and can damage a surge protector, leaving facility equipment vulnerable. By employing higher headroom, continuity of surge protection is guaranteed. This feature is standard in MCG surge protectors. Higher headroom allows varistors to ride out voltage swells while ensuring that let-through voltage remains within CBEMA (now ITIC) guidelines. The CBEMA curve is the most accepted graph worldwide for equipment susceptibility analysis.

^{**} Actual Measurements w/ 6" Lead Length