SurgeFree™

MODEL 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 160kA 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=160kA, 8x20µs.
- Independent lab tested modules.
- NEMA LS 1-1992.
- Redundant modular protection withstands multiple lightning strikes. Uses 40kA MOVs.
- Solid copper bus bar construction for minimal impedance and enhanced current sharing.
- High performance, low inductance Micro-Z™ 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

UL 1449, 2nd Ed. Listed
Including the requirements of Feb 9, 2007
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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

Surge Current/Phase (8/20µs):	1 Event - 160kA.
Surge Life/Phase (8/20µs):	10,000 Events: 6kA.
Status Indicators:	LED Status Indicators, Event Counter, Audible Alarm with Mute Switch, Protected Remote Alarm Dry Contacts
Modes of Protection:	L-N, L-G, L-L, N-G
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" (305 x 381 x 140mm)
Mounting:	8" x 15.75"/.31"ID - 4 holes (203 x 400mm/8mm ID)
Micro-Z Cable Connection:	#10 AWG
Micro-Z Cable Length:	8ft. (2.44M)
Weight:	35 lbs. (16.0kg)

MADE IN THE USA

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MCG Surge Protection • Toll Free: 1-800-851-1508, www.mcgsurge.com, E-Mail: info1@mcgsurge.com

Specifications

- ANSI/IEEE C62.41-2002
- IEC 61643-1-1998
- UL 1449, 2nd Ed. including requirements of Feb 9, 2007

Model 160MXT

Model 160MXT	Service	Higher Headroom MOVs VAC	UL1449 500A‡ Clamp V	20kV, 1.2/50µs; 10kA, 8/20µs SPD Clamp V	SPD+Cable Let-Thru V 1.0 ft.	SPD+Cable Let-Thru V 2.0 ft.
-120T	120/240VAC, 1ϕ, 3W+Gnd	180	500	550	735	880
-120Y	120/208, 3ϕ, 4W+Gnd, Wye	180	500	550	735	880
-220Y	220/380, 3ϕ, 4W+Gnd, Wye	390	900	1040	1400	1570
-240Y	240/415, 3ϕ, 4W+Gnd, Wye	390	900	1040	1400	1570
-240D	240, 3ϕ, 3W+Gnd, Delta	390	900	1040	1400	1570
-240DCT*	240/120/120, 3ϕ, 4W+Gnd	390/180	900/500	1040/550	1400/735	1570/880
-277Y	277/480, 3ϕ, 4W+Gnd, Wye	390	1000	1040	1400	1570
-347Y	347/600, 3ϕ, 4W+Gnd, Wye	460	1000	1052	1440	1600
-480D	480, 3ϕ, 3W+Gnd, Delta	620	1500	2000	2030	2050
-600D	600, 3ϕ, 3W+Gnd, Delta	750	1800	2030	2210	2300

* 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.

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