

4. PRODUCT SPECIFICATIONS

Performance Specifications

Table 4-1: Performance Specifications

Service Conditions	Load: Typically a 4-pulse rectifier
Input Voltage(s)	240 VAC \pm 10%, 60 \pm 0.75 Hz 1 phase 480 VAC \pm 10%, 60 \pm 0.75 Hz 1 phase
Maximum THID	12% at full load
Input voltage line distortion	1% maximum to ensure performance guaranty
Minimum source impedance	1.5%
Service Factor	1.00
Overload	150% for 1 minute duration
Ambient Temperature (Operating)	
Open Panel Filters	-40 to +50 degrees C
Enclosed Filters	-40 to +40 degrees C
Storage Temperature	-40 to +90 degrees C
Altitude	0 to 3300 Feet above sea level. Refer to Figure 5-4: Altitude Derating Curve
Relative Humidity	0 to 95% non-condensing
Over Voltage	Category II
Insertion Load	+10% no load -10% full load

Notes (SCCR):

The Short Circuit Current Rating (SCCR) is not required under Exception No.1 of UL508A SB4.2.1 effective 4/25/06. This exception also applies to all the Contactor Options (002, 009, 012, and similar), where the Contactors are separated from the Main Power path by exempt components (such as Reactors) of sufficient Impedance, which is assured in case of the Reactors that are integral components of our Filter.

Enclosures

MTE enclosures are designed to provide a degree of protection for electrical components and prevent incidental personnel contact with the enclosed equipment. Depending on the enclosure selected, these enclosures meet the requirements of NEMA 1/2 or 3R.

An approximate cross reference guide between NEMA, UL, CSA and IEC enclosure follows.

Type 1 NEMA / IEC IP20 Enclosure:

Are designed for indoor use and will provide protection against contact with the enclosed equipment.

Type 2 NEMA / IEC IP20 Enclosure:

Are designed for indoor use and will provide protection against contact with the enclosed equipment and provide a degree of protection against limited amounts of falling water and dirt.

Type 3R NEMA / IEC IP23 Enclosure:

Are designed for outdoor use primarily to provide protection against contact with the enclosed equipment and provide a degree of protection against falling rain sleet and external ice formation.

Agency Approvals

UL and cUL listed to UL508 Type MX and CSA-C22.2 No 14-95

File E180243 (1-999 Ampere, 120VAC through 690VAC 50/60Hz 1 or 3 phase).

Warranty

Three years from the date of shipment. See www.mtecorp.com for details.

Over Temperature Switch

Table 4-2: Over Temperature Switch

NC Switch opens at 180 Deg. +/- 5 Deg. C		
Current Amps	Voltage	Contact Load
6	120 AC	Resistive Loads
3	120 AC	Inductive Loads
3	240 AC	Resistive Loads
2.5	240 AC	Inductive Loads
8	12 VDC	Resistive Loads
4	24 VDC	Resistive Loads

MTE highly recommends the use of the over temperature switch to prevent damage to the filter in rare instances of overheating from abnormal operating conditions.