

Application Information: MDriveAC Plus



Conditions of Acceptability

When used in end-product equipment, the following are among the considerations to be made:

1. The temperature tests were conducted with the devices face mounted to an aluminum heat sink. For devices with the frame designation 34, the dimensions for the heat sink were 10" x 10" x ¼". For devices with the frame designation 42, the dimensions for the heat sink were 12" x 12" x ½". The shafts of both frame designations were also provided with aluminum wheels, approximately 4" in diameter and ¼" thick.
2. These devices are intended for installation in a Pollution Degree 2 (controlled) environment. Suitability of the spacings shall be considered in end use application.
3. The enclosure of this device is intended as the final end use enclosure.
4. These devices do not provide motor overload protection.
5. These devices have not been subjected to the short circuit test. This test shall be considered in the end-product investigation.

Electrical Ratings

Model	Input ratings				
	Voltage (VAC)	Continuous Current (A)	Peak Instantaneous Current (A)	Phase	Frequency (Hz)
MDxxMxx34x1	120	0.8	4.2	1	50/60
MDxxMxx34x2	240	0.4	2.1	1	50/60
MDxxMxx42x1	120	1.1	5.6	1	50/60
MDxxMxx42x2	240	0.6	2.8	1	50/60

x – Represents model part number nomenclature which does not affect the devices electrical ratings

Thermal Recommendations

Testing was conducted in a 40°C ambient environment. Worst case recommendations are 90°C motor case temperature and 75°C heat sink temperature.



The following MDriveAC Plus Products are excluded from UL Recognition:

- MDriveAC Plus 34 and 42 models with a rear motor shaft extension, i.e. Control Knob versions
- MDriveAC Plus 34 and 42 models with IP-65 sealing.