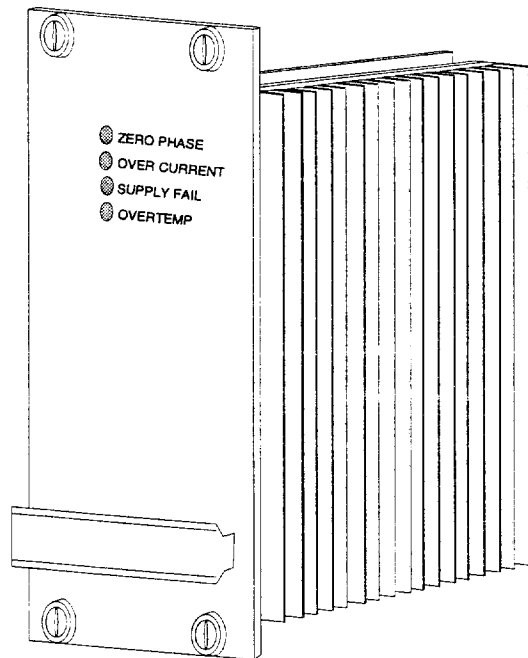


INTRODUCTION

Product Description

The CD60M and CD80M take advantage of high-reliability construction techniques and Surface Mount Technology to package high performance stepper drives into a 10HP rack size. Using FETs within bipolar recirculating switched-mode power stages, the drives can operate at a nominal bus voltage of 120V at currents up to 7.8A (11A peak). The drives offer up to 40% more high-speed torque over previous CD models and the use of mini stepping provides both higher resolution and smooth low speed rotation.



Product Features:

- Compatibility with previous CD drives
- High voltage operation up to 120V
- Programmable motor current
- Compact package - 10HP (2") front panel
- Single supply operation
- Mini-stepping built in
- Optimized current profiles
- Programmable standby current reduction

Figure 1. CD60M/CD80M Drive

Packaging

Each drive consists of 2 PCBs separated by spacers:

- [1] PSU and Translator Card (Euro Module card size)
- [2] Power Card (Euro Card size)

The differing card sizes and spacing allow Euro Module or Euro Card racks to be used. The Power Card has an integral heatsink attached to its outer surface.

Environmental Specifications

It is recommended that you operate and store your CD60M/CD80M drive system under the following conditions:

- Operating Temperature: 0° to 50°C (32° to 122°F)
- Relative Humidity: 0% to 95% (non-condensing)
- Maximum Heatsink Temperature: 85°C (185°F)
- Storage Temperature: -40° to 85°C (-40° to 185°F)
- Pollution Degree 2, i.e. no conductive pollution

PM1200CN Power Supply Specifications

Parameter	Value
AC Input Power Logic Supply Motor Supply Frequency	20V RMS @ 3A Up to 61V RMS (no load) @ 20A 47 - 63Hz
DC Output Power Logic Supply Motor Supply	+24V @ 2A Up to +85V @ 15A
Fuse Ratings Logic Supply (FS1) Power Dump (FS2)	5A TL HB 32mm x 6.3mm 2A TL LB 32mm x 6.3mm

Table 2. PM1200CN Power Supply Specifications

PM2000CN Power Supply Specifications

Parameter	Value
AC Input Power Logic Supply Motor Supply Frequency	20V RMS @ 3A Up to 100V RMS (no load) @ 20A (1 or 3 phase input) 47 - 63Hz
DC Output Power Logic Supply Motor Supply	+24V @ 2A Up to +140V @ 15A
Fuse Ratings Logic Supply (FS1) Power Dump (FS2)	5A TL HB 32mm x 6.3mm 2A TL LB 32mm x 6.3mm

Table 3 PM2000CN Power Supply Specifications

PSU Motherboard fuses

Parameter	Value
Motor supply 1	30/32A TL HBC
Motor Supply 2	30/32A TL HBC

Table 4 PSU Motherboard Fuses