

MP



| Product | Control Voltage Range | Load Current | Switching Voltage Type | Turn On | Load Voltage Range |
|--------------------|-----------------------|-----------------|------------------------|------------|--------------------|
| BUY MP120D3 | 3-32 Volts DC | 0.02-3 Amps RMS | AC | Zero cross | 12-140 Volts RMS |

SCR output on AC version and FET output on DC version • 3-4Amp • 120/240 Vrms (AC Switching) • 0-60 VDC N.O or N.C. (DC Switching) • SIP mount • AC version has built-in snubber.

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- High Packaging Density
- Compatible with 5, 15 & 24 Volt Logic Systems
- Opto-Isolated 4000 Vrms
- Zero Voltage Switching (AC Output)
- Normally Closed (Form B) Available (DC Output)

Available in 3Arms and 4Arms ratings, all are SPST-NO PC-mount relays that provide greater packaging density and compatibility with pin out of Series 6 and OAC output modules. Internal snubber included for high dv/dt applications (AC). Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

| MODEL NUMBER | MP120D3 | MP240D3 | MP240D4 |
|---|-----------|-----------|-----------|
| AC OUTPUT SPECIFICATIONS ① | | | |
| Operating Voltage Range (47-63 Hz) [Vrms] | 12-140 | 24-280 | 24-280 |
| Load Current Range [Arms] | .02-3 | .02-3 | .02-4 |
| Transient Overvoltage [Vpk] | 400 | 600 | 600 |
| Max. Surge Current, (16.6ms) [Apk] | 90 | 90 | 130 |
| Max. On-State Voltage Drop @ Rated Current [Vpk] | 1.6 | 1.6 | 1.6 |
| Maximum I ² t for Fusing, (8.3 msec.) [A ² sec] | 36 | 36 | 72 |
| Max. Off-State Leakage Current @ Rated Voltage [mArms] | 5.0 | 5.0 | 5.0 |
| Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] ② | 200 | 200 | 200 |
| Max. Turn-On Time | 1/2 Cycle | 1/2 Cycle | 1/2 Cycle |
| Max. Turn-Off Time | 1/2 Cycle | 1/2 Cycle | 1/2 Cycle |
| P o w e r a t o r (W h) . w i t h M x d . o a d | 0.5 | 0.5 | 0.5 |

| DC OUTPUT SPECIFICATIONS | MPDCD3 | MPDCD3-B |
|---|----------|----------|
| ① | | |
| Operating Voltage Range [Vdc] | 3-60 | 3-60 |
| Load Current Range [Adc] | 0.02-3.0 | 0.02-3.0 |
| Max. Over Current (non-repetative) 1sec [A] | 5.0 | 5.0 |
| Max. On-State Voltage Drop @ Rated Current [Vdc] | 1.5 | 1.5 |
| Max. Turn-On time (T _{delay} + T _{rise}) [μs] | 100 | 100 |
| Max. Turn-Off time (T _{delay} + T _{fall}) [μs] | 100 | 100 |
| Max. Off-State Leakage Current @ Rated Voltage [mA] | 1.0 | 1.0 |

| INPUT SPECIFICATIONS | AC/DC Output | DC Output (-B) |
|-----------------------------------|--------------|----------------|
| ① | | |
| Control Voltage Range [Vdc] | 3-32 | 3-32 |
| Must Turn-On Voltage [Vdc] | 3.0 | 1.0 |
| Must Turn-Off Voltage [Vdc] | 1.0 | 3.0 |
| Typical Input Current @ 5Vdc [mA] | 2.6 | 2.6 |
| Nominal Input Impedance [Ohms] | 1500 | 1500 |

GENERAL NOTES

- ① All parameters at 25°C unless otherwise specified.
- ② Off-State dv/dt test method per EIA/NARM standard RS-343, paragraph 13.11.1
- ③ Inductive loads should be diode suppressed.

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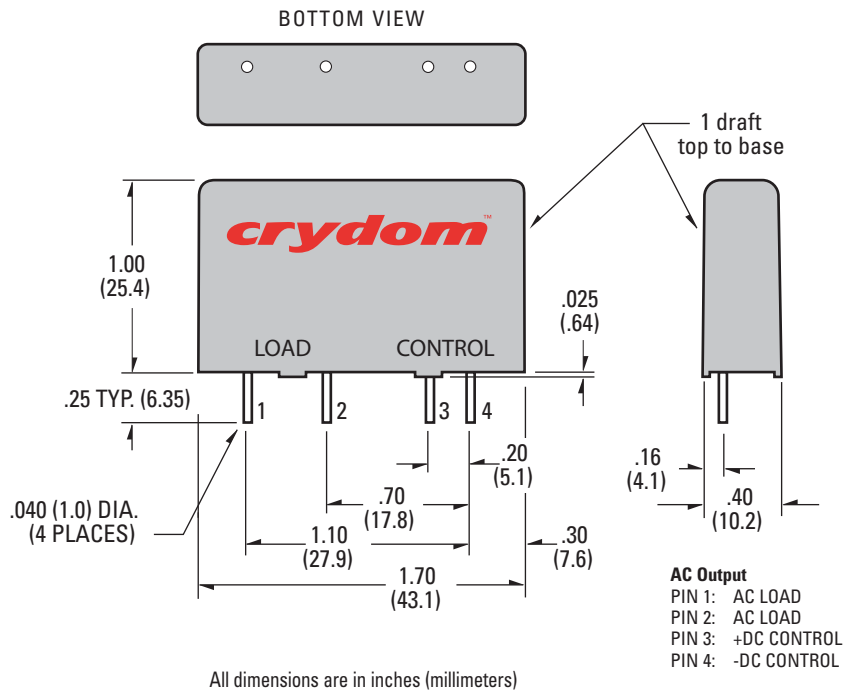
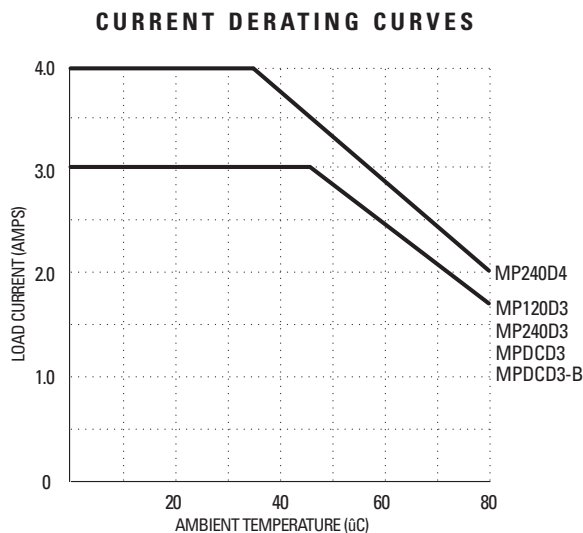


GENERAL SPECIFICATIONS

| | |
|--|---------------------|
| Dielectric Strength 50/60Hz Input/Output | 4000 Vrms |
| Insulation Resistance (Min.) @ 500 Vdc | 10 ⁹ Ohm |
| Max. Capacitance Input/Output | 8 pF |
| Ambient Operating Temperature Range | -40 to 80°C |
| Ambient Storage Temperature Range | -40 to 125°C |

MECHANICAL SPECIFICATIONS

| | |
|-------------------|----------------------------|
| Weight: (typical) | 0.7 oz. (20g) |
| Encapsulation: | Thermally Conductive Epoxy |



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APPROVALS

UL E116950
 VDE 5900 UG (AC Output Only)
 CSA LR81689 (AC Output Only)

