

**CRYDOM***Control over power*

# Series MP

3 - 4 Amps • 120/240 Vac (AC Output) • 60 Vdc (DC Output) • SIP

- **High Packaging Density**
- **Compatible with 5, 15 & 24 Volt Logic Systems**
- **Opto-Isolated 4000 Vrms**
- **Zero Voltage Switching (AC)**

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
<b>AC OUTPUT SPECIFICATIONS</b> 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 <sup>2</sup> t for Fusing, (8.3 msec.) [A <sup>2</sup> 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
Power Factor (Min.) with Max. Load	0.5	0.5	0.5

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

INPUT SPECIFICATIONS	All Models
Control Voltage Range [Vdc]	3-32
Must Turn-On Voltage [Vdc]	3.0
Must Turn-Off Voltage [Vdc]	1.0
Typical Input Current @ 5Vdc [mA]	2.6
Nominal Input Impedance [Ohms]	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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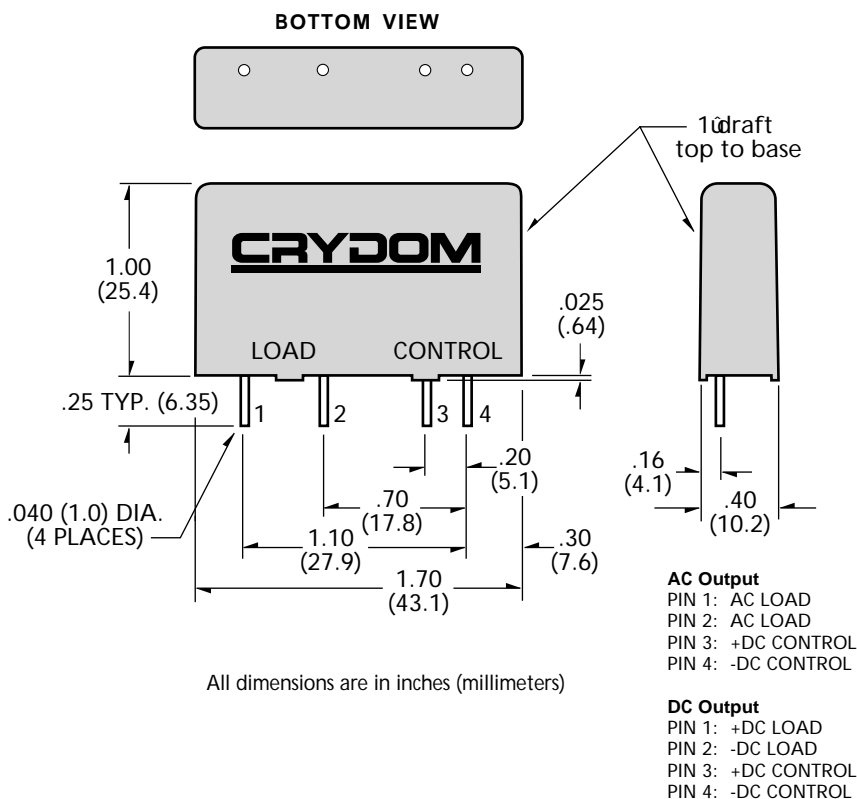
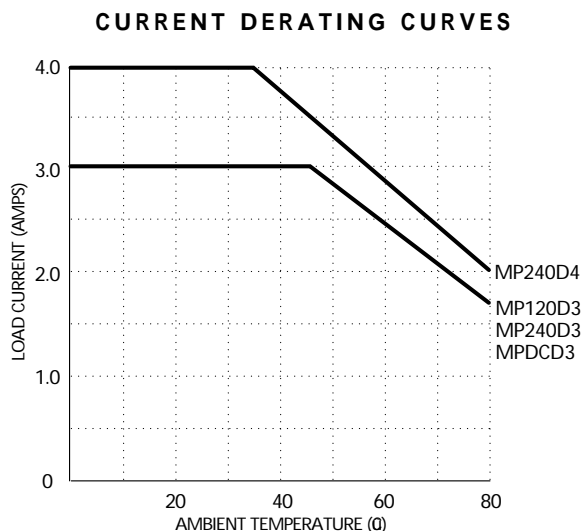
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### GENERAL SPECIFICATIONS

Dielectric Strength 50/60Hz Input/Output/Base	4000 Vrms
Insulation Resistance (Min.) @ 500 Vdc	10 <sup>9</sup> 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)

