



Series MPF

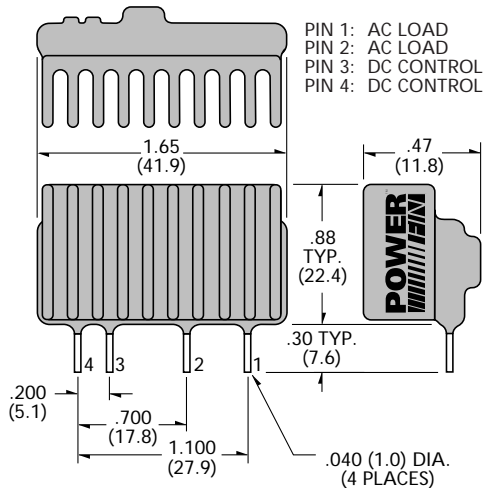
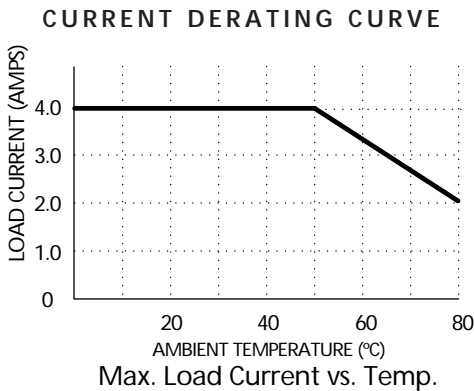
4.0 Amp • 120/240 Vac • AC SIP

- Integral Heat Sink Design
- DC Control, AC Output
- SCR Output
- Crydom's Patented Design

profile SIP has the same pin-out as the popular Series CX. The MPF is designed for repetitive switching and applications where precise electrical power control is essential. Zero voltage or random switching (R suffix) versions are available.

The Series MPF Solid State Relay offers Crydom's patented PowerFin™ design technology for a SPST-NO AC output SSR with a 4.0 Amp rating. This low

Manufactured in Crydom's ISO 9002 Certified facility for optimum product performance and reliability.



All dimensions are in inches (millimeters)

MODEL NO.	MPF240D4	MPF240D4R
INPUT SPECIFICATIONS ①		
Control Voltage Range	4-10 Vdc	4-10 Vdc
Nominal Input Impedance	300 Ohm	300 Ohm
Typical Input Current @ 5 Vdc	15 mAdc	15 mAdc
Must Turn On Voltage	4.0 Vdc	4.0 Vdc
Must Turn Off Voltage	1.0 Vdc	1.0 Vdc
OUTPUT SPECIFICATIONS ①		
Operating Voltage Range (47-63 Hz)	12-280 Vrms	12-280 Vrms
Load Current Range	0.1 - 4.0 Arms	0.1 - 4.0 Arms
Transient Over-Voltage	600 Vpk	600 Vpk
Max. Surge Current, (16.6ms)	40 Apk	40 Apk
Min. Off-State dv/dt @ Max. Rated Voltage ③	500 V/μsec	500 V/μsec
Max. Off-State Leakage @ Rated Voltage	0.1 mArms	0.1 mArms
Max. On-State Voltage Drop @ Rated Current	1.5 Vpk	1.5 Vpk
Max. Turn-On Time	1/2 cycle	0.1 msec
Max. Turn-Off Time	1/2 cycle	1/2 cycle
Power Factor (Min.) With Max. Load	0.5	0.5

GENERAL SPECIFICATIONS	
Dielectric Strength ②	3750 Vrms
Insulation Resistance (Min.) @ 500 Vdc ②	10 ⁹ Ohm
Max. Capacitance	8.0 pF
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature Range	-30 to 125°C

MECHANICAL SPECIFICATIONS	
Weight: (typical)	0.6 oz. (17 g)
Encapsulation:	Thermally Conductive Epoxy

GENERAL NOTES

©1998 CRYDOM. Specifications subject to change without notice.

- ① All parameters at 25°C unless otherwise specified.
- ② Dielectric and insulation resistance are measured between input and output.
- ③ Off-State dv/dt test method per EIA/NARM standard RS-443.

APPROVALS

UL E116950
CSA LR81689



For recommended applications and more information contact:

USA: (800) 8 CRYDOM • (800) 827-9366 • (619) 715-7200 • fax (619) 715-7280
Crydom Corp, 9525 Chesapeake Drive, San Diego, CA 92123 • e-mail: sales@crydom.com
WEB SITE: <http://www.crydom.com> FASTFAX Product Information: (888) 267-9191
UK: (44)1202 812300 • fax (44)1202 812340 Crydom International Ltd., 85, Condor Close, Woolsbridge Industrial Estate, Three-Legged Cross, Wimborne, Dorset, England BH21 6SU
GERMANY: (49) (0)6874 182580 • fax (49)(0)6874 182585 Crydom GmbH, Gewerbegebiet Im Schachen, D-66687 Nunkirchen, Germany • e-mail: vertrieb@crydom.com

