



Series CMD24

25-125Amp • 240 Vac • AC Output

- Zero Voltage and Random Turn-On Switching
- Panel Mount

Featuring state-of-the-art Surface Mount Technology, these SPST-NO relays deliver proven reliability in the most demanding applications. Output consists of an SCR AC switch and is available in zero-cross and random turn-on (phase controllable) versions.

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

MODEL NUMBERS	CMD2425	CMD2450	CMD2475	CMD2490	CMD24110	CMD24125
OUTPUT SPECIFICATIONS ①						
Operating Voltage (47-63 Hz) [Vrms]	24-280	24-280	24-280	24-280	24-280	24-280
Max. Load Current ③ [Arms]	25	50	75	90	110	125
Min. Load Current, [mArms]	0.15	0.15	0.25	0.25	0.25	0.25
Transient Overvoltage [Vpk]	600	600	600	600	600	600
Max. Surge Current, (16.6ms) [Apk]	250	625	1000	1200	1500	1750
Max. On-State Voltage Drop @ Rated Current [Vpk]	1.6	1.6	1.6	1.6	1.6	1.6
Thermal Resistance Junction to Case (R _{θJC}) [°C/W]	1.02	0.63	0.31	0.28	0.25	0.22
Maximum I ² t for Fusing, (8.3 msec.) [A ² sec]	260	1620	4150	6000	9340	12700
Max. Off-State Leakage Current @ Rated Voltage [mArms]	10	10	10	10	10	10
Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec]②	500	500	500	500	500	500
Max. Turn-On Time ④	1/2 Cycle (DC Control), 10.0 msec (AC Control)					
Max. Turn-Off Time	1/2 Cycle (DC Control), 40.0 msec (AC Control)					
Power Factor (Min.) with Max. Load	0.5	0.5	0.5	0.5	0.5	0.5

INPUT SPECIFICATIONS ①	DC CONTROL
Control Voltage Range	3-32 Vdc
Max. Reverse Voltage	32 Vdc
Max. Turn-On Voltage	3.0 Vdc
Min. Turn-Off Voltage	1.0 Vdc
Max. Input Current	30.0mA⑤
Typical Input Current	17mA @ 5 Vdc

GENERAL NOTES

- ① All parameters at 25°C unless otherwise specified.
- ② Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1
- ③ HEAT SINKING REQUIRED, for derating curves see page 2.
- ④ Turn-on time for random turn-on versions is 0.02msec.
- ⑤ Input circuitry incorporates active current limiter.

GENERAL SPECIFICATIONS

Dielectric Strength 50/60Hz Input/Output/Base	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)	3.0 oz. (86.5g)
Encapsulation:	Thermally Conductive Epoxy
Terminals:	Cage Type

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For recommended applications and more information contact:

USA: (800) 8 CRYDOM • (800) 827-9366 • (619) 715-7200 • fax (619)715-7280
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: (0)1202 897969 • fax (0)1202 891918

7 Cobham Road, Ferndown Industrial Estate, Wimborne, Dorset, England BH21 7PE

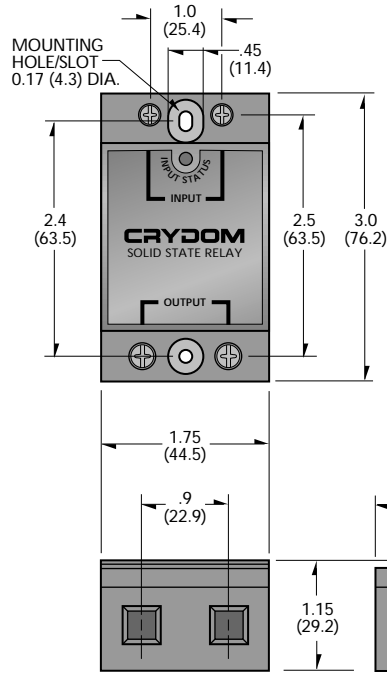
GERMANY: (0)871 935405 • fax (0)871 935407, Aussere Parkstr.5, D-84032 Altdorf, Germany





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MECHANICAL SPECIFICATIONS

All dimensions are in inches (millimeters)

CMD24 available with factory mounted heat sink and DIN rail mounting clip. Specifications available via FastFax, request document no. 173.

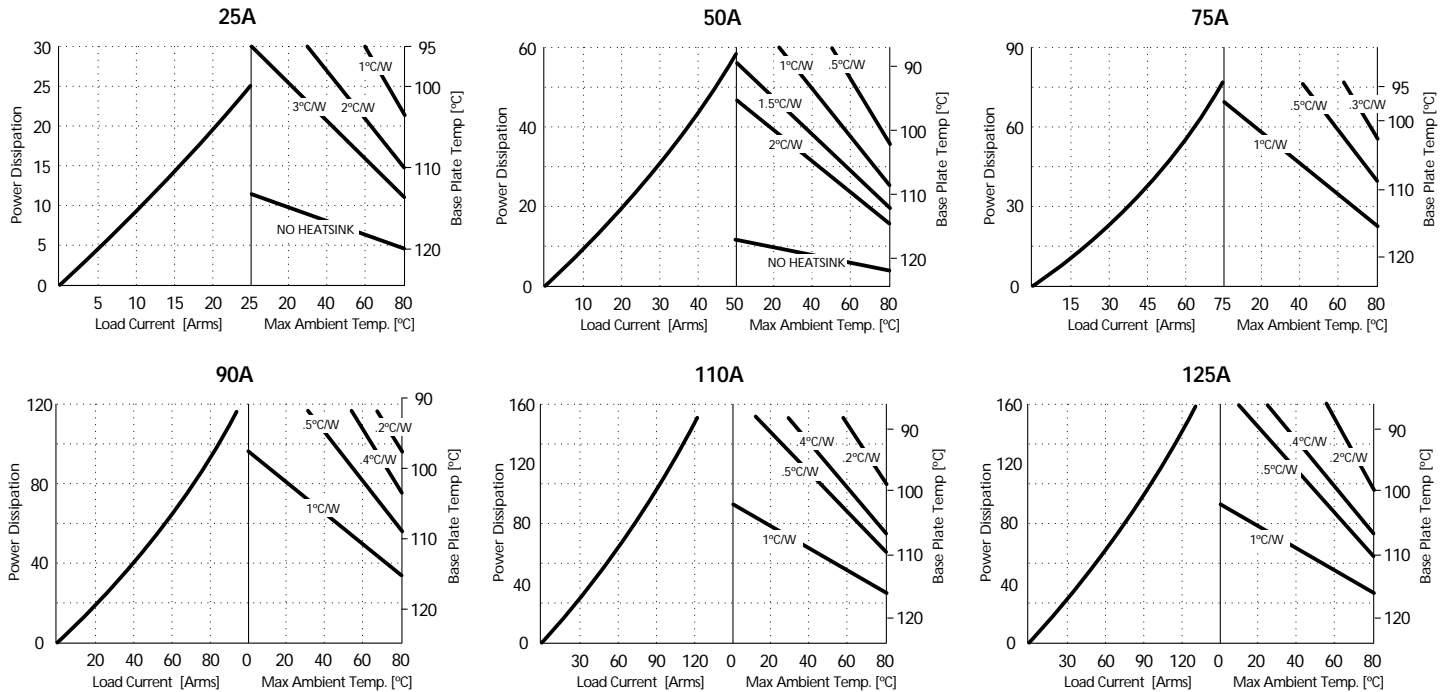
AVAILABLE OPTIONS

- 10 Random Turn-On (AC & DC Control)
Phase Controllable (DC Control)
Example: **CMD2450-10**

APPROVALS

- UL PENDING
- CSA PENDING
- VDE PENDING

CURRENT DERATING CURVES



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