



Series CM D60/ CM A60

25-125Amp • 600 Vac • AC Output

- Zero Voltage and Random Turn-On Switching
- Panel Mount
- Status Indicating LED
- DC or AC Control

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 or random turn-on versions.

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

MODEL NUMBERS	CM D6025 CMA6025	CM D6050 CMA6050	CM D6075 CMA6075	CM D6090 CMA6090	CM D60110 CMA60110	CM D60125 CMA60125
OUTPUT SPECIFICATIONS ①						
Nominal Line Voltage (±10%) [Vrms]	600	600	600	600	600	600
Operating Voltage (47-63 Hz) [Vrms]	48-660	48-660	48-660	48-660	48-660	48-660
Max. Load Current ③ [Arms]	25	50	75	90	110	125
Min. Load Current, [Arms]	0.15	0.15	0.25	0.25	0.25	0.25
Transient Overvoltage [Vpk]	1200	1200	1200	1200	1200	1200
Max. Surge Current, (16.6ms) [Apk]	250	625	1000	1200	1500	1750
Max. On-State Voltage Drop @Rated Current [Vpk]	1.7	1.7	1.7	1.7	1.7	1.7
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]	1.0	1.0	1.0	1.0	1.0	1.0
Min. Off-State dv/dt @Max. Rated Voltage [V/μsec]②	500	500	500	500	500	500
Max. Turn-On Time④	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 SPECIFICATIONS①	DC CONTROL	AC CONTROL
Control Voltage Range	4-32 Vdc	90-140 Vrms
Max. Reverse Voltage	32 Vdc	—
Max. Turn-On Voltage	4.0 Vdc	90 Vrms
Min. Turn-Off Voltage	1.0 Vdc	10 Vrms
Max. Input Current	30.0mA⑤	—
Typical Input Current	14mA @5 Vdc	15mA @120 Vrms

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
Status Indicating Display	Green LED

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 DC control random turn-on versions is 0.02msec.
- ⑤ Input circuitry incorporates active current limiter.

MECHANICAL SPECIFICATIONS

Weight: (typical)	3.0 oz. (86.5g)
Encapsulation:	Thermally Conductive Epoxy
Terminals:	Cage Type
Maximum Wire Size- Output:	AWG6 (4.1mm) Input: Awg10 (2.6mm)

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For recommended applications and more information contact:

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 WEB SITE: http://www.crydom.com FASTFAX Product Information: (888) 267-9191
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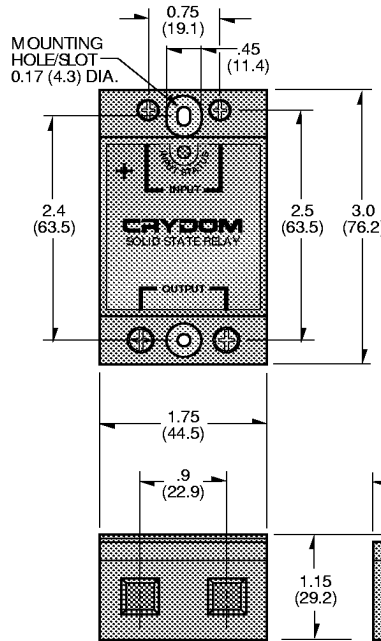
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AVAILABLE OPTIONS

- 10 Random Turn-On, Phase Controllable
Example: **CM D6050-10**
- E 24 Vac Input (18-36 Vac)
Example: **CM A6050E**

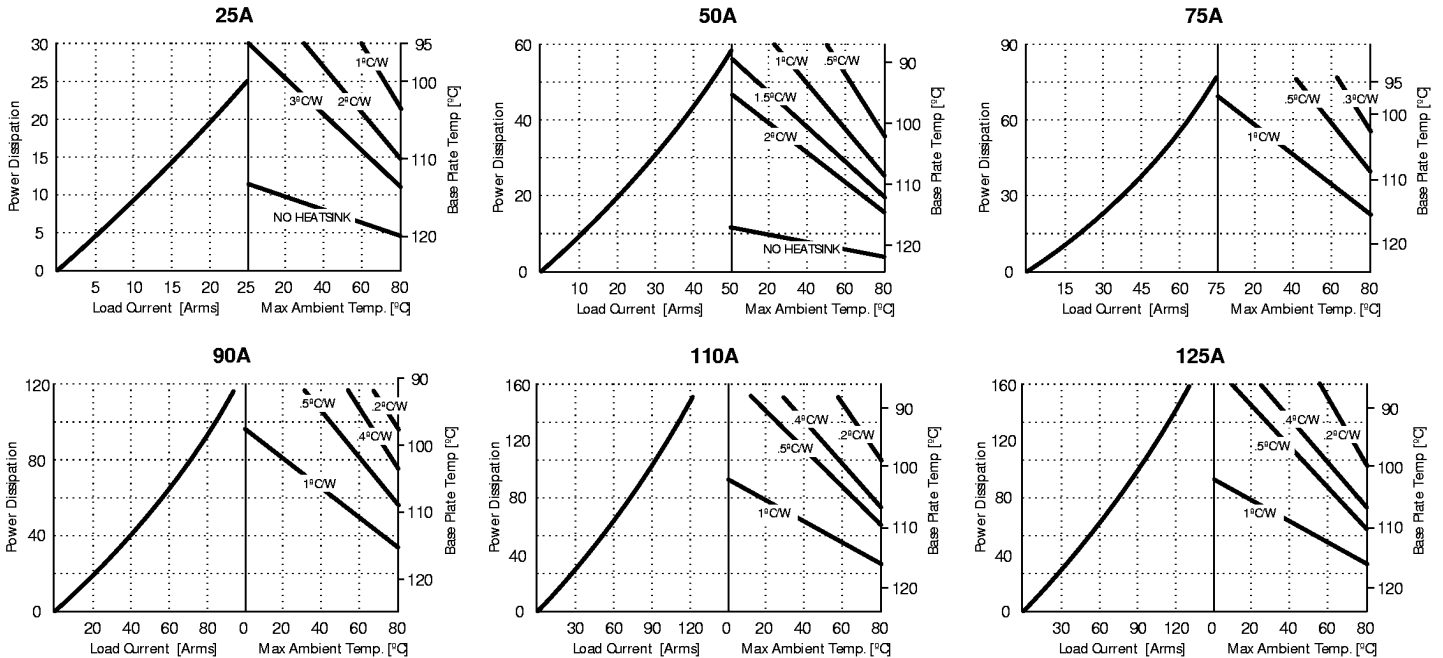


MECHANICAL DIMENSIONS

All dimensions are in inches (millimeters)

CM RD60/CM RA60 available with factory mounted heat sink and DIN rail mounting clip. Specifications available via FastFax, request document No. 171.

CURRENT DERATING CURVES



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APPROVALS

UL PENDING
CSA PENDING
VDE PENDING



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