

# Series CMX

3-10 Amp • 0-60, 0-100 Vdc, 0-200Vdc • DC Output SIP

- MOSFET Output
- Extra Low On-State Resistance

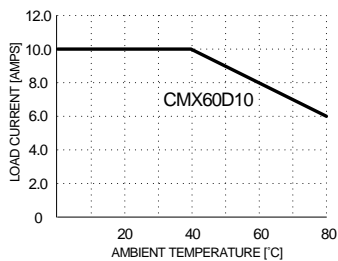
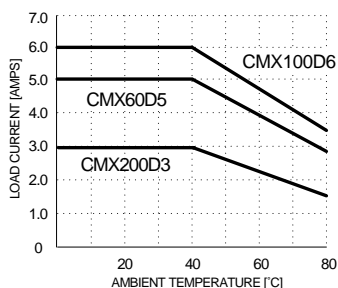
DC output SPST-NO solid state relays use MOSFET output for high switching capabilities in a PC-mount air-cooled package. Pinouts are compatible with Series 6 and ODC type I/O modules.

Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

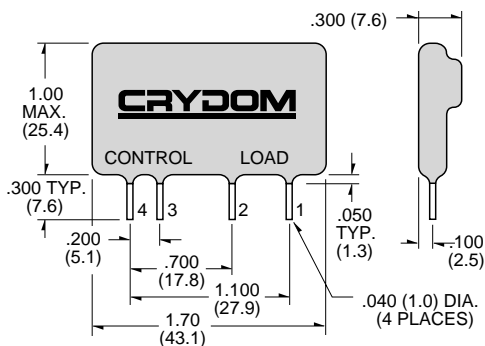
## CRYDOM

Control over power

### CURRENT DERATING CURVES



Max. Load Current vs. Temp.



PIN 1: +DC LOAD  
PIN 2: -DC LOAD  
PIN 3: +DC CONTROL  
PIN 4: -DC CONTROL

All dimensions are in inches (millimeters)

### APPROVALS

UL E116950 (6A & 10A Models)

SERIES CMX  
Rev. 012202  
PAGE 1 OF 1  
FastFax Document No. 109

### MODEL NO. CMX60D5 CMX60D10 CMX100D6 CMX200D3

#### INPUT SPECIFICATIONS ①

Control Voltage Range	3.0-10.0 Vdc	3.0-10.0 Vdc	3.0-10.0 Vdc	4.0-10.0 Vdc
Nominal Input Impedance	300 Ohm	300 Ohm	300 Ohm	300 Ohm
Typical Input Current @ 5 Vdc	15 mAdc	15 mAdc	15 mAdc	15 mAdc
Must Turn On Voltage	3.0 Vdc	3.0 Vdc	3.0 Vdc	4.0 Vdc
Must Turn Off Voltage	1.0 Vdc	1.0 Vdc	1.0 Vdc	1.0 Vdc

#### OUTPUT SPECIFICATIONS ①③

Operating Voltage Range	0-60 Vdc	0-60 Vdc	0-100 Vdc	0-200 Vdc
Load Current Range	0-5 Adc	0-10 Adc	0-6 Adc	0-3 Adc
Max. Surge Current, (10 msec)	60 Apk	100 Apk	100 Apk	30 Apk
Max. Off-State Leakage @ Rated Voltage	100 µAdc	100 µAdc ④	100 µAdc	100 µAdc
Max. On-State Resistance @ Rated Current (R <sub>DS-ON</sub> )	.10 Ohm	.018 Ohm	.040 Ohm	.20 Ohm
Max. On-State Voltage Drop @ Rated Current	0.5V	0.18V	0.24V	0.6 V
Max. Turn-On Time @ 10Vdc Control	1.0 msec	1.0 msec	1.0 msec	1.0 msec
Max. Turn-Off Time @ 10Vdc Control	300 µsec	300 µsec	300 µsec	300 µsec

#### GENERAL SPECIFICATIONS

Dielectric Strength ②	2500 Vrms
Insulation Resistance (Min.) @ 500 Vdc ②	10 <sup>9</sup> Ohm
Max. Capacitance (Input/Output)	15 pF
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature Range	-30 to 125°C

#### MECHANICAL SPECIFICATIONS

Weight: (typical)	0.4 oz. (11 g)
Encapsulation:	Thermally Conductive Epoxy

#### GENERAL NOTES

- ① All parameters at 25°C unless otherwise specified.
- ② Dielectric and insulation resistance are measured between input and output.
- ③ Inductive loads should be diode suppressed.
- ④ At 55 Vdc.

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