



| CMX SERIES

PCB MOUNT SOLID STATE RELAYS



Features

- SIP SSR
- Ratings to 20A @ 60 VDC, 10A @ 100 VDC, 10A @ 60 VDC and 3A @ 200 VDC
- MOSFET output
- DC control
- Low on-state impedance
- CE Compliant to EN60950-1

PRODUCT SELECTION

Control Voltage	3 A	5 A	6 A	10 A	10 A	20 A
3-10 VDC	CMX200D3	CMX60D5	CMX100D6	CMX60D10	CMX100D10	CMX60D20
20-28 VDC	CMXE200D3	CMXE60D5	CMXE100D6	CMXE60D10	CMXE100D10	CMXE60D20

SPECIFICATIONS

Output ⁽¹⁾⁽⁵⁾

Description	3 A	5 A	6 A	10 A	10 A	20 A
Operating Voltage [VDC]	0-200	0-60	0-100	0-60	0-100	0-60
Maximum Off-State Leakage Current @ Rated Voltage [μ Adc]	100	100	100	100 (6)	100	100
Maximum Load Current [ADC]	3	5	6	10	10	20
Minimum Load Current [mADC]	2	2	2	2	2	2
Maximum On-State Resistance [Ohm] (2)	0.20	.10	.040	.018	.010	.0033
Maximum Surge Current (10msec) [Apc]	30	60	100	100	100	200
Maximum On-State Voltage Drop @ Rated Current [VDC]	0.6	0.5	0.24	0.18	0.1	0.1

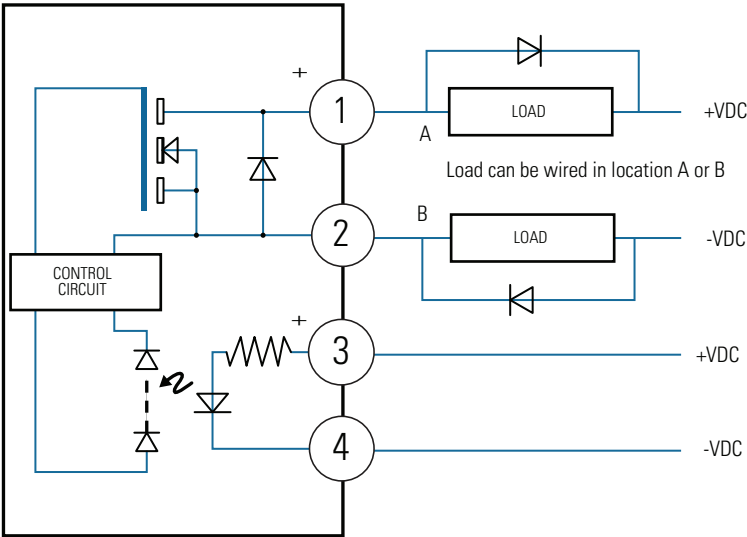
Input ⁽¹⁾

Description	CMX	CMXE
Control Voltage Range	3-10 VDC	20-28 VDC
Maximum Turn-On Voltage	3.0 VDC	20 VDC
Minimum Turn-Off Voltage	1.0 VDC	1.0 VDC
Typical Input Current	15 mA @ 5 VDC	12 mA @ 24 VDC
Nominal Input Impedance	300 Ohms	780 Ohms
Maximum Turn-On Time [msec]	2.0	2.0
Maximum Turn-Off Time [μ s]	600	600

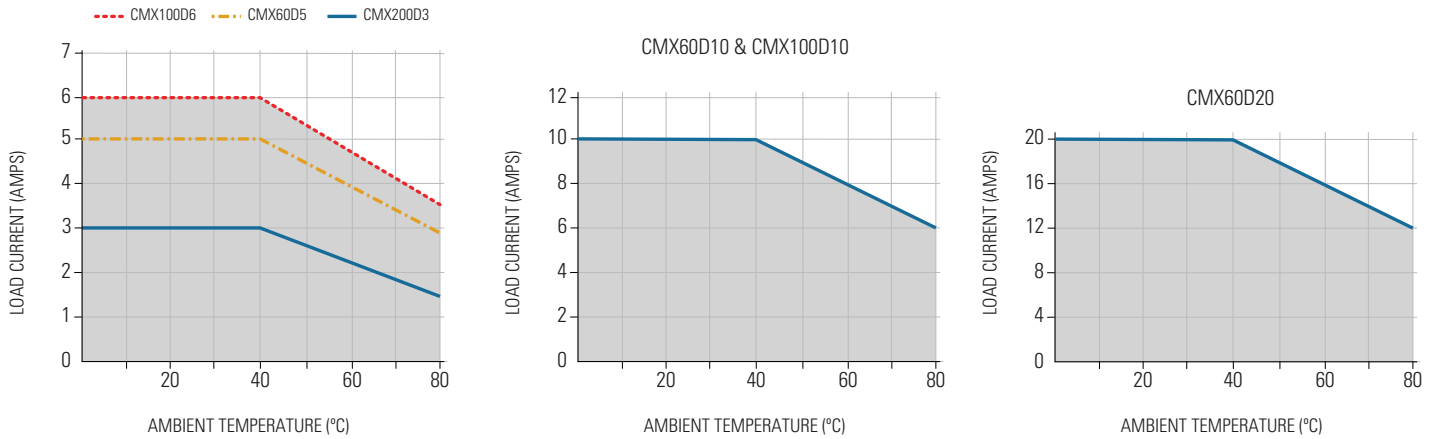
General

Description	Parameters
Dielectric Strength, Input/Output (50/60 Hz) (3)	2500 Vrms
Minimum Insulation Resistance (@ 500 VDC) (3)	10 ⁹ Ohms
Maximum Capacitance, Input/Output	15 pF
Ambient Operating Temperature Range (4)	-10°C to 80°C
Ambient Storage Temperature Range (4)	-10°C to 125°C
Weight (typical)	0.4 oz. (11 g)
Encapsulation	Thermally Conductive Epoxy
Enclosure and PCB	Meet the requirements of IEC60335-1

WIRING DIAGRAM

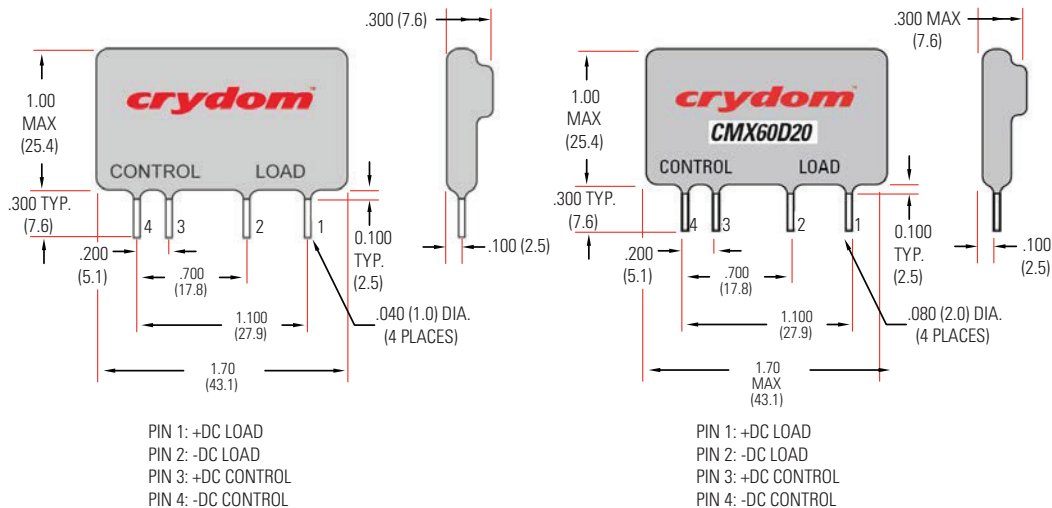


THERMAL DERATE INFORMATION



MECHANICAL SPECIFICATIONS

Tolerances: ± 0.02 in / 0.5 mm
All dimensions are in: inches [millimeters]



AGENCY APPROVALS & CERTIFICATIONS

Designed in accordance with the requirements of IEC 62314

EN60950 : Meets the requirements of sections 1.5: 1.7: 2.9: 2.10.5.3: 4.2: 4.5: 4.7:

IEC60335-1: Resistance to heat and fire meets the requirements of section 30, evaluated by TUV SUD.

Glow Wire Test, per requirements of IEC/EN 60695-2-10 and IEC/EN 60695-2-11

Ball Pressure Test, per requirements of IEC/EN 60695-10-2

 E116950 (3 Amps, 6 Amps and 10 Amps Models)



GENERAL NOTES

- 1) All parameters at 25°C unless otherwise specified.
- 2) At rated current (RDS-ON).
- 3) Dielectric and insulation resistance are measured between input and output.
- 4) Low temperature range is limited to -10°C in 20 Amps models.
- 5) Inductive loads should be diode suppressed.
- 6) At 55 VDC.

WARNINGS



RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- The product's side panels may be hot, allow the product to cool before touching
 - Follow proper mounting instructions including torque values
 - Do not allow liquids or foreign objects to enter this product
- Failure to follow these instructions can result in serious injury, or equipment damage.**



HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARCH FLASH

- Disconnect all power before installing or working with this equipment
 - Verify all connections and replace all covers before turning on power
- Failure to follow these instructions will result in death or serious injury**

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