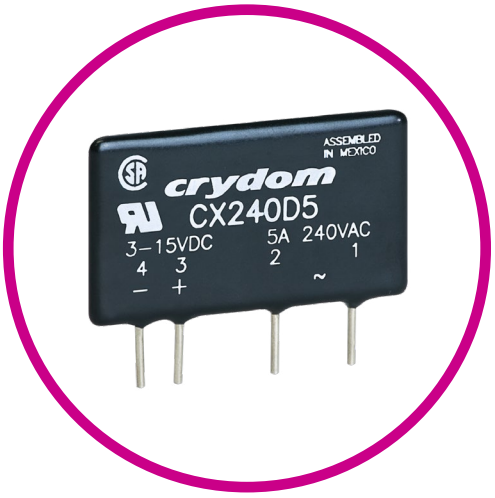
CX-B | SERIES

PCB MOUNT



Features

- SCR Output
- NC (Normally Closed) Configuration
- Ultra High Surge Rating
- Crydom's Pantented Design

PRODUCT SELECTION

Control Voltage	5A
4-38 VDC	CX240D5-B

SPECIFICATIONS

Output[1]

Description	CX240D5-B
Operating Voltage (47-63Hz) [Vrms]	12-280
Transient Overvoltaje	600
Maximum Off-State Leakage Current @ Rated Voltage [mArms]	5.0
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/µsec] [2]	500
Maximum Load Current [Arms]	5
Minimum Load Current [Arms]	0.06
Maximum Surge Current (16.6msec) [Apk]	250
Maximum On-State Voltage Drop @ Rated Current [Vpk]	1.4
Maximum I^2t for Fusing (8.3msec) [A^2 sec]	260
Minimum Power Factor (at Maximum load)	0.5

Input[1]

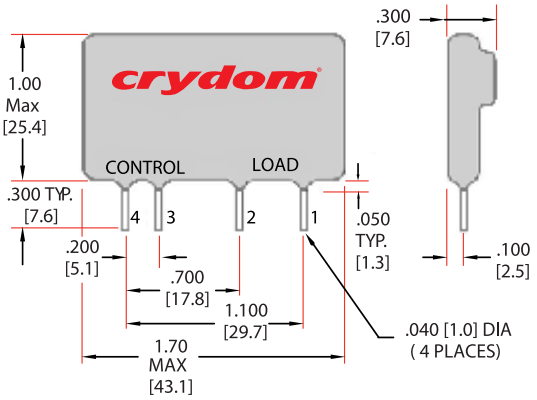
Description	Parameters
Must Turn-On Voltage	0-1.0 VDC
Must Turn-Off Voltage	4-28 VDC
Typical Input Current @ 15 VDC	10 mAdc
Nominal Input Impedance	1360 Ohm
Maximum Turn-On Time [msec] 3	1/2 Cycle
Maximum Turn-Off Time [msec]	1/2 Cycle

General[1]

Description	Parameters
Dielectric Strength, Input/Output (50/60Hz)	4000 Vrms
Minimum Insulation Resistance (@ 500 VDC)	10^9 Ohm
Maximum Capacitance, Input/Output	10 pF
Ambient Operating Temperature Range	-30°C to 80°C
Ambient Storage Temperature Range	-30°C to 125°C
Weight (typical)	0.4 oz (11g)
Encapsulation	Thermally conductive Epoxy
Enclosure and PCB	Meets the requirements of IEC60335-1
Meets the requirements of solidarity per IEC60068-2-20, section 4, method 5 at 5 Seconds	

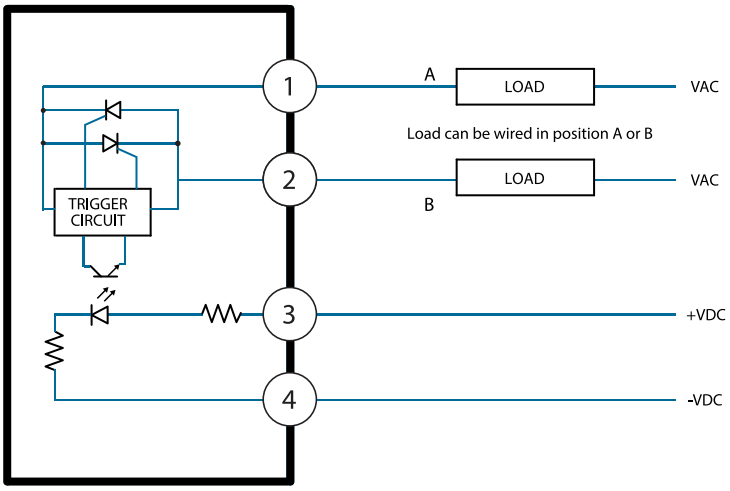
MECHANICAL SPECIFICATIONS [1][4]

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

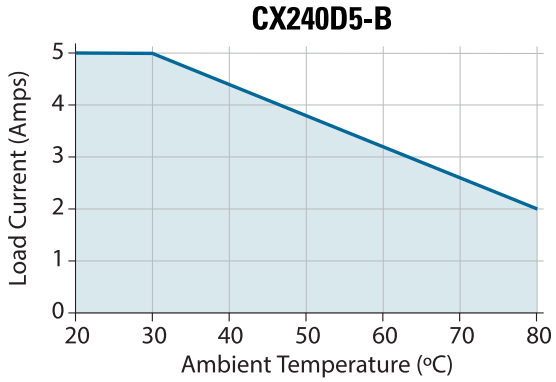


PIN 1: AC LOAD
PIN 2: AC LOAD
PIN 3: +DC CONTROL
PIN 4: - DC CONTROL

WIRING DIAGRAM



THERMAL DERATE INFORMATION



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) Turn-On time for random turn-on versions is 0.01 msec (DC control Models).
(4) Terminals are not suitable for bending or forming process.

AGENCY APPROVALS & CERTIFICATIONS

Designed in accordance with the requirements of IEC 62314
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 :

c UL us E116910 LR 81689 CE RoHS 50

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 ARC 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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