| SDV SERIES

PCB MOUNT SOLID STATE RELAYS

Features

- 16 Pin DIP SSR
- Ratings to 1.5 A @280 VAC
- SCR Output
- 3.5-10 Vdc control output
- Zero-crossing (resistive loads) or random-fire (inductive loads) output

PRODUCT SELECTION

Control Voltage	1.5 A	1.5 A
3.5-10 VDC	SDV2415	SDV2415R

SPECIFICATIONS

Output [A]

Description	
Operating Voltage (47-63Hz) [Vrms]	12-280
Transient Overvoltage [Vpk]	600
Maximum Off-State Leakage Current @ Rated Voltage [mA]	0.01
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/sec] [C]	500
Maximum Load Current [Arms] [C]	1.5
Minimum Load Current [Arms]	0.025
Maximum Surge Current (16.6ms) [Apk]	30
Maximum On-State Voltage Drop @ Rated Current [Vpk]	1.2
Minimum Power Factor (with Maximum Load)	0.5

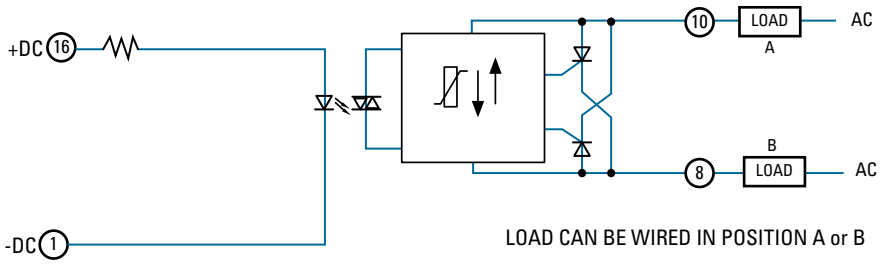
Input [A]

Description	SDV
Control Voltage Range	3.5-10 Vdc
Control Current Range	-
Must Turn On Voltage	3.5 Vdc
Must Turn On Current	-
Must Turn Off Voltage	1.0 Vdc
Must Turn Off Current	-
Typical Input Current @ 5 VDC	15 mAdc
Nominal Input Impedance [Ohm]	270 Ohm
Maximum Turn-On Time [msec]	1/2 Cycle
Maximum Turn-Off Time [msec]	1/2 Cycle

General [A]

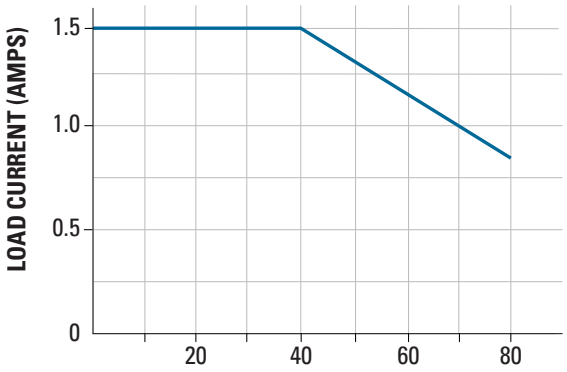
Description	Parameters
Dielectric Strength, Input/Output to Baseplate (50/60Hz) [B]	3750 Vrms
Minimum Insulation Resistance (@ 500 VDC) [B]	10 9 Ohms
Maximum Capacitance, Input/Output	2.0 pF
Ambient Operating Temperature Range	-30 to 80˚C
Ambient Storage Temperature Range	-30 to 125˚C
Weight (typical)	0.10 oz (2.9 g)
Encapsulation	Thermally Conductive Epoxy

WIRING DIAGRAM



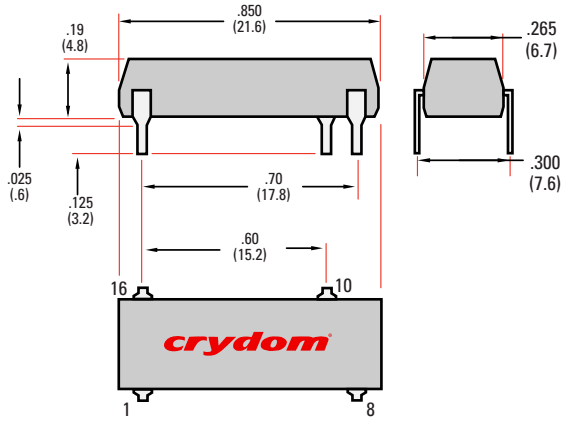
LOAD CAN BE WIRED IN POSITION A or B

THERMAL DERATE INFORMATION



MECHANICAL SPECIFICATIONS

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



ORDERING OPTIONS

Example : SDV2415R

SDV	24	15	R

Series

SDV

Operational Voltage

24: 12-280 VAC

Load Current:

15: 1.5 Amps

Output Current

Blank: Zero Voltage Turn-On
R: Instantaneous Turn-on

— Required for valid part number
☐ For options only and not required for valid part number

GENERAL NOTES

(A) All parameters at 25 1/4 °C unless otherwise specified
(B) Dielectric and insulation resistance are measured
(C) Off-State dv/dt test method per EIA/NARM standard RS-443

AGENCY APPROVALS & CERTIFICATIONS

Designed in accordance with the requirements of IEC 62314

RoHS 116950

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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Rev:06/03/25