CKR SERIES | 600 VAC

DIN RAIL MOUNT SOLID STATE RELAYS



Features

- Rating of 30 A @ 660 VAC
- Slim 22.5mm (width) package
- SCR output for heavy industrial loads
- LED input status indicator
- DC control
- Zero Voltage (resistive loads) turn-on output

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PRODUCT SELECTION

Control Voltage	30 A
4-32 VDC Control	CKRD6030

SPECIFICATIONS

Output ⁽¹⁾

Description	30 A
Operating Voltage (47-63Hz) [Vrms]	48-660
Transient Overvoltage [Vpk]	1200
Maximum Off-State Leakage Current @ Rated Voltage [mArms]	1.0
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/µsec] ⁽²⁾	500
Maximum Load Current [Arms]	30
Minimum Load Current [Arms]	0.15
Maximum Surge Current (16.6ms) [Apk]	1200
Maximum On-State Voltage Drop @ Rated Current [Vpk]	1.6
Maximum I ² t for Fusing (8.3 msec) [A ² sec]	6000
Minimum Power Factor (with Maximum Load)	0.5

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Input ⁽¹⁾

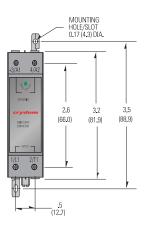
Description	CKRD60xx
Control Voltage Range	4.0-32 VDC
Minimum Turn-On Voltage	4.0 VDC
Must Turn-Off Voltage	1.0 VDC
Typical Input Current ⁽³⁾	8-12 mA
Maximum Turn-On Time [msec]	1/2 Cycle
Maximum Turn-Off Time [msec]	1/2 Cycle

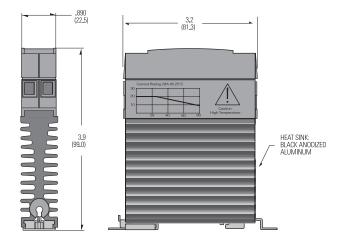
General

Description	Parameters
Dielectric Strength, Input/Output/Base (50/60Hz)	4000 Vrms
Minimum Insulation Resistance (@ 500 VDC)	10 ⁹ Ohms
Maximum Capacitance, Input/Output	8 pF
Ambient Operating Temperature Range	-40 to 80 °C
Ambient Storage Temperature Range	-40 to 125 °C
Status Indicator Display	Green LED
Weight (typical)	10 oz. (280g)
Encapsulation	Thermally Conductive Epoxy
Terminals	Box Clamp Type
Maximum Wire Size	AWG # 10 (3mm)
Recommended Terminal Screw Torque Range	5.0-6.0 lb-in (0.6-0.7 Nm)
Min. Side by Side Spacing	0.8 inch (20mm)

MECHANICAL SPECIFICATIONS

*All dimensions are in: inches [millimeters]

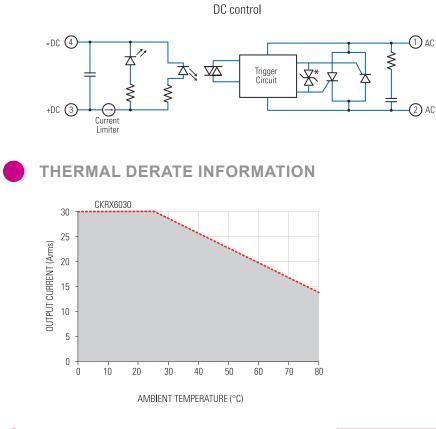




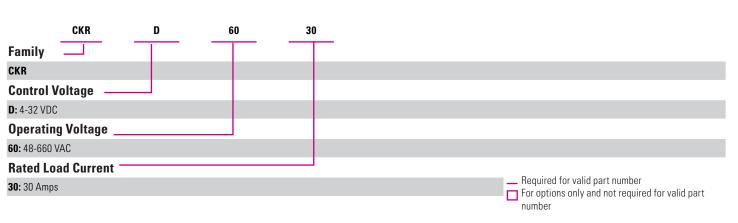




EQUIVALENTCIRCUITBLOCKDIAGRAMS







Example: CKRD6030



⁽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⁾ Input circuitry for DC control version incorporates active current limiter.



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Designed in accordance with the requirements of IEC 62314







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.

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Danger	
Electric shock risk	
risk	

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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