



## SSRK series

### 10-30A DIN Mount Solid State Relay With Paired SCR Output, Integral Heatsink

File E29244

File LR246041

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to confirm the product meets the requirements for a given application.

#### Features

- Narrow (22.5mm), DIN mount design with integral heatsink.
- Choice of 10, 20 or 30A rms inverse-parallel connected SCR output.
- 48 - 660VAC output.
- 4 -32VDC or 90 - 280Vrms input control.
- 4,000V rms optical isolation.
- Green LED input status indicator.
- Finger-safe (IP20) screw clamp terminals for load and control.
- Ground terminal.

#### Engineering Data

**Form:** 1 Form A (SPST-NO).

**Duty:** Continuous.

**Isolation:** 4,000V rms input-to-output-to-ground.

**Insulation Resistance:** 10<sup>9</sup> Ohms, minimum, at 500VDC.

**Capacitance:** 8.0 pf maximum (input to output).

**Temperature Range:**

**Storage:** -40°C to +125°C

**Operating:** -40°C to + 80°C

**Case and Mounting:** Refer to outline dimension drawing.

**Termination:**

**Load & Control:** Finger safe (IP20) screw clamps accepting wire size up to #10 AWG (3 mm).

**Ground:** #10 screw with 5/16 in. hex/slotted head.

**Installation Spacing:** Minimum 0.8 in (20 mm) space between units.

**Approximate Weight:** 9.9 oz. (284 g).

#### Ordering Information

Sample Part Number ▶

**SSRK -600 A 30**

**1. Basic Series:** SSRK = Slim Solid State Relay with Integral Heatsink for DIN Rail Mounting

**2. Line Voltage:** 600 = 48 - 660 VAC

**3. Input Type & Voltage:** A = 90 - 280VAC  
D = 4 - 32VDC

**4. Maximum Switching Rating/Output:** 10 = 10.0A rms  
20 = 20.0A rms  
30 = 30.0A rms

**Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.**

SSRK-600A10      SSRK-600A20      SSRK-600A30  
SSRK-600D10      SSRK-600D20      SSRK-600D30

#### Input Specifications

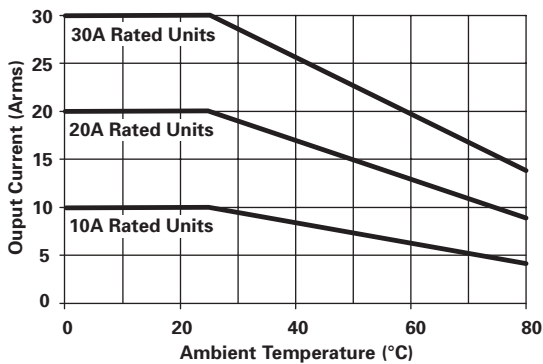
Parameter	Conditions	AC Control Units	DC Control Units
Control Voltage Range $V_{IN}$	@ 25°C	90 - 280 Vrms	4.0 - 32 VDC
Must Operate Voltage $V_{IN(OP)}$ (Min.)	@ 25°C	90 Vrms	4.0 VDC
Must Release Voltage $V_{IN(REL)}$ (Min.)	@ 25°C	10 Vrms	1.0 VDC
Input Current Range (Typ.)	@ 25°C	2 mA @ 120 Vrms, 4 mA @ 240 Vrms	8 - 12 mA

**Output Specifications (@ 25° C, unless otherwise specified)**

Parameter	Conditions	Units	10A Rated Units	20A Rated Units	30A Rated Units
Load Voltage Range $V_L$	$f = 47-63$ Hz.	V rms	48-660	48-660	48-660
Repetitive Blocking Voltage (Min.)		V peak	$\pm 1200$	$\pm 1200$	$\pm 1200$
Load Current Range $I_L^*$		A rms	0.15 - 10.0	0.15 - 20.0	0.15 - 30.0
Single Cycle Surge Current (Min.)		A peak	120	250	625
Leakage Current (Off-State) (Max.)	$f = 60$ Hz. $V_L = 600$ Vrms	mA rms	1.0	1.0	1.0
On-State Voltage Drop (Max.)	$I_L = \text{Max.}$	V peak	1.6	1.6	1.6
Static dv/dt (Off-State) (Min.)	$V_L = \text{Max.}$	V/ $\mu$ s	500	500	500
Turn-On Time (Max.)	$f = 60$ Hz.	ms	8.3 for DC Input Models, 10.0 for AC Input Models		
Turn-Off Time (Max.)	$f = 60$ Hz.	ms	8.3 for DC Input Models, 40.0 for AC Input Models		
$I^2 t$ Rating (Max.)	$t = 8.3$ ms	A <sup>2</sup> Sec.	60	260	1,620
Load Power Factor Rating (Min.)	$I_L = \text{Max.}$		0.5	0.5	0.5

\*See Thermal Derating Curves.

**Electrical Characteristics (Thermal Derating Curves)**



**Disclaimer**

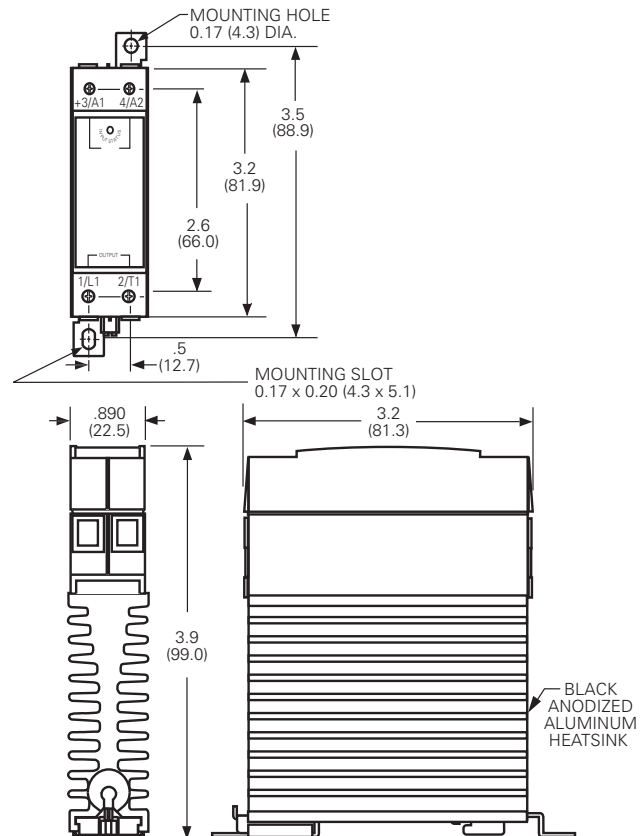
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**Outline Dimensions**



Recommended Torque Range for Terminal Screws: 5 - 6 in lb (0.6 - 0.7 Nm).

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