

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.

Тусо

Electronics

- 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.

SSRK series

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



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.

Engineering Data

Form: 1 Form A (SPST-NO). Duty: Continuous. Isolation: 4,000V rms input-to-output-to-ground. Insulation Resistance: 10⁹ 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/slottted 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	Α	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					

SSRK-600A10 SSRK-600D10

SSRK-600A20 SSRK-600A30 SSRK-600D20 SSRK-600D30

Input Specifications

Parameter	Conditions	AC Control Units	DC Control Units
Control Voltage Range VIN	@ 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

Issued 4-09 www.tycoelectronics.com

Dimensions are in inches over (millimeters) unless otherwise specified. Dimensions are shown for reference purposes only. Specifications and availability subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

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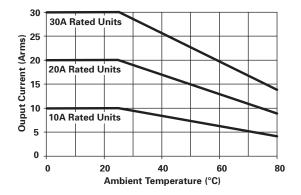
SSRK Series Solid State Relays

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

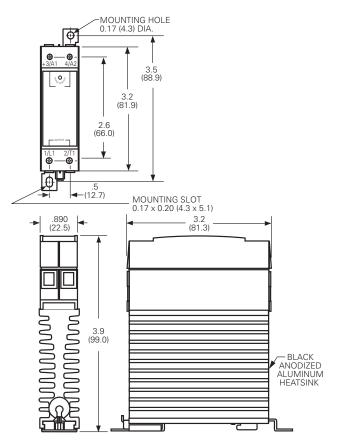
Parameter	Conditions	Units	10A Rated Units	20A Rated Units	30A Rated Units	
Load Voltage Range V _L	f = 47-63 Hz.	V rms	48-660	48-660	48-660	
Repetitive Blocking Voltage (Min.)		V peak	±1200	±1200	±1200	
Load Current Range I L*		A rms	0.15 - 10.0	0.15 - 20.0	0.15 - 30.0	
Single Cycle Surge Current (Min.)		A peak	120	250	625	
Leakage Current (Off-State) (Max.)	$f = 60 \text{ Hz. V}_{L} = 600 \text{Vrms}$	mA rms	1.0	1.0	1.0	
On-State Voltage Drop (Max.)	I _L = Max.	V peak	1.6	1.6	1.6	
Static dv/dt (Off-State) (Min.)	V _L = Max.	V/µs	500	500	500	
Turn-On Time (Max.)	f = 60 Hz.	ms	8.3 for Zero Voltage Turn-On Models 0.02 for Random Voltage Turn-On Models			
Turn-Off Time (Max.)	f = 60 Hz.	ms	8.3	8.3	8.3	
l ² t Rating (Max.)	t = 8.3 ms	A ² Sec.	60	260	1,620	
Load Power Factor Rating (Min,)	I _L = Max.		0.5	0.5	0.5	

*See Thermal Derating Curves.

Electrical Characteristics (Thermal Derating Curves)



Outline Dimensions



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

Disclaimer

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Catalog 8-1773454-4 Issued 4-09

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