SSRK Series

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

c UL us File E29244

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 ensure 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.
- 24-240VAC and 48-660VAC output types.
- 3 - 32VDC, 4 - 32VDC or 90 - 280Vrms input control.
- 4000V 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: 4000V rms input-to-output-to-ground.
Insulation Resistance: 10^9 Ohms, minimum, at 500VDC.
Capacitance: 8.0 pf maximum (input to output).
Temperature Range:
Storage: –30°C to +100°C
Operating: –30°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: 9.87 oz. (280g).

Ordering Information

Typical Part Number >	SSRK	–600	A	30

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

2. Line Voltage: 240 = 24 - 240 VAC
600 = 48 - 660 VAC

3. Input Type & Voltage: A = 90 - 280 VAC
D = 3 - 32VDC for 240V / 4 - 32VDC for 600V

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-240A20	SSRK-240A30	SSRK-600A30
SSRK-240D20	SSRK-240D30	SSRK-600D30

Input Specifications

Parameter	Conditions	AC Control Units	DC Control Units	
			240 V	600V
Control Voltage Range VIN	@25°C	90 - 280 Vrms	3 -32 VDC	4 -32 VDC
Must Operate Voltage VIN(OP) (Min.)	@25°C	90 Vrms	3 VDC	4 VDC
Must release Voltage VIN(REL) (Min.)	@25°C	10 Vrms	1 VDC	1 VDC
Input Current Range(Typ.)	@25°C	7.5mA @ 120 Vrms, 16mA @ 240 Vrms	18mA @ 5Vdc	9.5 - 30 mA

SSRK Series (Continued)

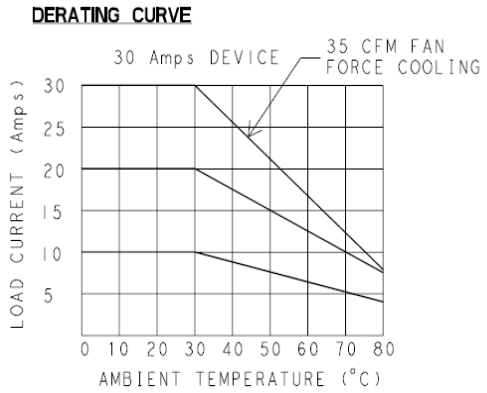
SCR Output Modules

Output Specifications (@ +25˚C unless otherwise specified)

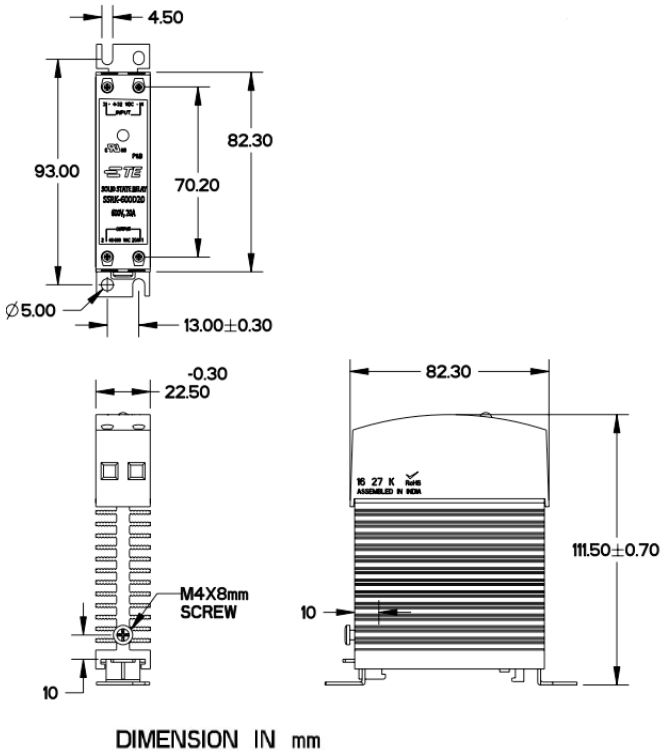
Parameter	Conditions	Nom. Line Voltage	Units	10A Rated Units	20A Rated Units	30A Rated Units
Load Voltage V_L	f = 47 - 63Hz	240 V model	V rms	24 - 240	24 - 240	24 - 240
		600 V model	V rms	48 - 660	48 - 660	48 - 660
Repetitive Blocking Voltage (Min.)		240 V model	V peak	600	600	600
		600 V model	V peak	1200	1200	1200
Load Current I_L*		240 V & 600 V model	A rms	0.15 - 10	0.15 - 20	0.15 - 30
Single Cycle Surge Current (Min.)		240 V model	A peak	83	300	800
		600 V model	A peak	300	300	800
Leakage Current (Off-State) (Max.)	f = 60Hz. - $V_L = 600V_{rms}$	240 V & 600 V model	mA rms	5	5	5
On-State Voltage Drop (Max.)	I_L=Max.	240 V model	V peak	1.8	1.8	1.8
		600 V model	V peak	1.6	1.6	1.8
Static dv / dt (Off-State) (Min.)	V_L=Max.	240 V model	V/µs	200	300	500
		600 V model	V/µs	300	300	500
Turn-On Time (Max.)	f = 60Hz.	240 V & 600 V model	ms	10 for DC Input Models, 40 for AC Input Models		
Turn-Off Time (Max.)		240 V & 600 V model	ms	10 for DC Input Models, 80 for AC Input Models		
I^2t Rating (Max.)	t = 8.3 ms	240 V model	A^2s	41	510	3745
		600 V model	A^2s	510	510	3745
Load Power Factor Rating (Min.)	I_L=Min.	240 V & 600 V model		0.5	0.5	0.5

* See Derating curve

Electrical Characteristics (Thermal Derating Curves)



Outline Dimensions



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