



SSRC series

5A SIP Solid State Relay With Paired SCR Output

us File E81606

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

- SIP package permits high density population of PC board.
- 5A rms inverse-parallel connected SCR output.
- Choice of 240 or 480VAC nominal output.
- 3-15 / 4-15VDC input control.
- Zero voltage and random voltage turn-on versions.
- 4,000V rms optical isolation.
- Pinout compatible with OAC or OACM series output modules.

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: 10.0 pf maximum (input to output).

Temperature Range:

Storage: -30°C to +125°C

Operating: -30°C to +80°C

Case Material: Thermally conductive epoxy encapsulation.

Case and Mounting: Refer to outline dimension drawing.

Termination: Printed circuit terminals. Refer to outline dimension drawing.

Approximate Weight: 0.4 oz. (11.0g).

Ordering Information

Sample Part Number ▶

SSRC -240 D 5 R

1. Basic Series: SSRC = SIP Solid State Relay

2. Line Voltage: 240 = 12 - 280 VAC
480 = 48 - 660 VAC

3. Input Type & Voltage: D = 3 - 15VDC (240V output types) or 4 - 15VDC (480V output types)

4. Maximum Switching Rating/Output: 5 = 5.0A rms

5. Options: Blank = Zero voltage turn-on
R = Random voltage turn-on

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

SSRC-240D5 SSRC-480D5
SSRC-240D5R SSRC-480D5R

Input Specifications

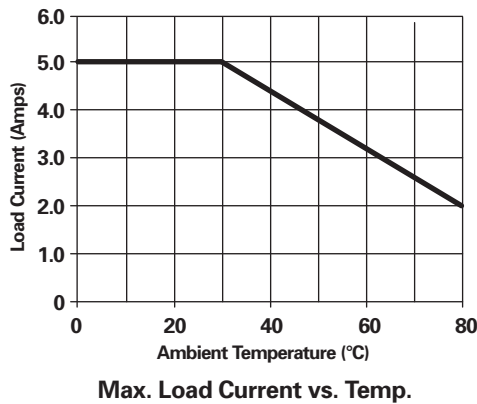
Parameter	Conditions	Units	240V Output, Zero or Random V Turn-on	480V Output Units, Zero or Random V Turn-on
Control Voltage Range V_{IN}	@ 25°C	VDC	3-15	4-15
Must Operate Voltage $V_{IN(OP)}$ (Min.)	@ 25°C	VDC	3.0	4.0
Must Release Voltage $V_{IN(REL)}$ (Min.)	@ 25°C	VDC	1.0	1.0
Input Current (Typ.)	@ 25°C	mA DC	15	15
Input Impedance (Nom.)	@ 25°C	ohms	300	240

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

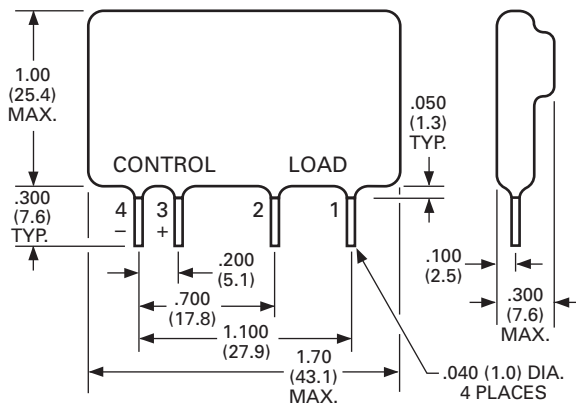
Parameter	Conditions	Units	240V Nom. Output Units	480V Nom. Output Units
Load Voltage Range V_L	$f = 47-63$ Hz.	V rms	12-280	48-660
Repetitive Blocking Voltage (Min.)		V peak	± 600	± 1200
Load Current Range I_L^*	Resistive	A rms	.06-5.0	.06-5.0
Single Cycle Surge Current (Min.)		A peak	250	250
Leakage Current (Off-State) (Max.)	$f = 60$ Hz, $V_L = 280$ Vrms	mA rms	0.1	0.1
On-State Voltage Drop (Max.)	$I_L = \text{Max.}$	V peak	1.4	1.4
Static dv/dt (Off-State) (Min.)	$V_L = \text{Max.}$	V/ μ s	500	500
Turn-On Time (Max.)	$f = 60$ Hz.	ms	8.3 for Zero Voltage Turn-On Models 0.1 for Random Voltage Turn-On Models	8.3 for Zero Voltage Turn-On Models 0.1 for Random Voltage Turn-On Models
Turn-Off Time (Max.)	$f = 60$ Hz.	ms	8.3	8.3
$I^2 t$ Rating	$t = 8.3$ ms	A Sec. ²	260	260
Load Power Factor Rating (Min.)	$I_L = \text{Max.}$		0.5	0.5

*See Thermal Derating Curves.

Electrical Characteristics (Thermal Derating Curve)



Outline Dimensions



PIN ASSIGNMENTS:

- PIN 1: AC LOAD
- PIN 2: AC LOAD
- PIN 3: +DC INPUT
- PIN 4: -DC INPUT

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The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult Tyco Electronics for the latest dimensions and design specifications.

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