SSRC series

5A SIP Solid State Relay With Paired SCR Output

c UL 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: 10^9 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

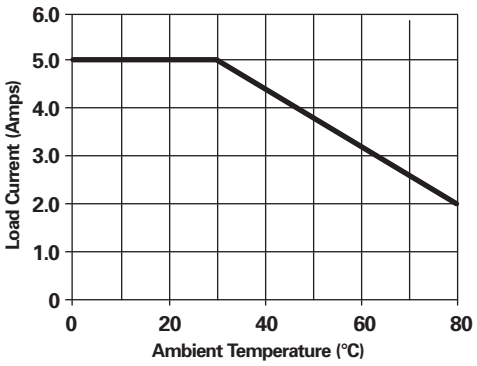
Parameter	Conditions	Units	240V Output, Zero or Random V Turn-on	480V Output Units, Zero or Random V Turn-on
Control Voltage Range V_{IN}	@ 25°C	VDC	3-15	4-15
Must Operate Voltage $V_{IN(OP)}$ (Min.)	@ 25°C	VDC	3.0	4.0
Must Release Voltage $V_{IN(REL)}$ (Min.)	@ 25°C	VDC	1.0	1.0
Input Current (Typ.)	@ 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 = 280Vrms	mA rms	0.1	0.1
On-State Voltage Drop (Max.)	I_L = Max.	V peak	1.4	1.4
Static dv/dt (Off-State) (Min.)	V_L = Max.	V/µs	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^2t Rating	t = 8.3 ms	A Sec.^{2}	260	260
Load Power Factor Rating (Min,)	I_L = Max.		0.5	0.5

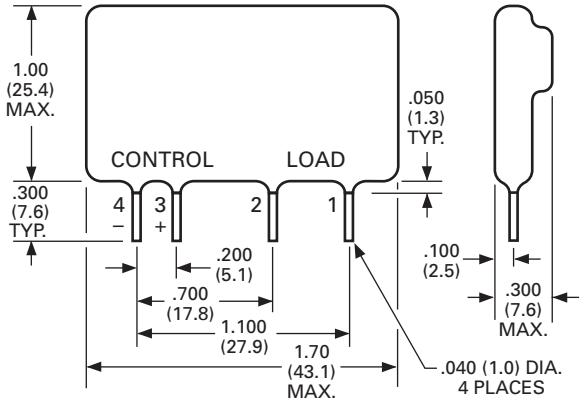
*See Thermal Derating Curves.

Electrical Characteristics (Thermal Derating Curve)



Max. Load Current vs. Temp.

Outline Dimensions



PIN ASSIGNMENTS:

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

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Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9