

Product data sheet

Specifications



solid state relay - panel mounting -
input 90-280 V AC, output 24-280 V
AC, 50A

SSRPP8S50A1

⚠ Discontinued on: Jan 29, 2021

⚠ Discontinued

Main

Range of product	Zelio Relay
Product or component type	Solid state relay
Device short name	SSR
Network number of phases	1 phase
Mounting support	Panel
[In] rated current	50 A
Output voltage	24...280 V AC
[Uc] control circuit voltage	90...280 V AC

Complementary

Contacts type and composition	1 NO
Tightening torque	<= 1.1 N.m input <= 2.2 N.m output
Local signalling	LED (green) for input status
Switching voltage	90 V AC turn-on 10 V AC turn-off
Input current limits	6 mA
Solid state output type	Zero voltage switching SCR output
Load current	0.15...50 A
output sustained overvoltage	600 V
Surge current	625 A 16.6 ms
Maximum voltage drop	<1.6 V on-state
thermal resistance	0.63 °C/W
Maximum I²t for fusing	1620 A².s 8.3 ms
Maximum leakage current	10 mA off-state
DV/dt	500 V/µs off-state at maximum voltage
Response time	0.5 cycle turn-on) 0.5 cycle turn-off)

Environment

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Standards	IEC 60950-1 IEC 62314 UL E258297 CSA LR 40487
Marking	CE
IP degree of protection	IP20
Ambient air temperature for operation	-40...176 °F (-40...80 °C)
Ambient air temperature for storage	-40...257 °F (-40...125 °C)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

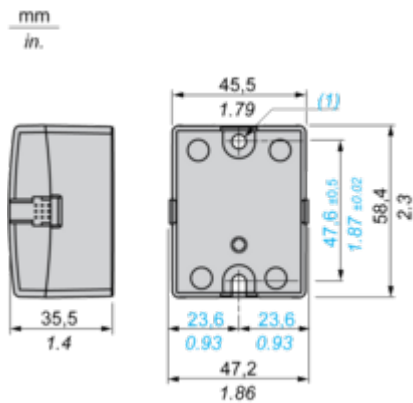
Use Longer

Lifetime extension	
Repair	No

Dimensions Drawings

Dimensions

Panel Mounting

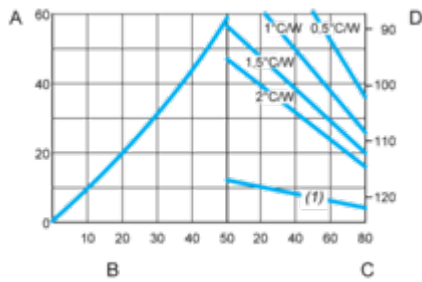


(1) Ø4.9 ±0.25 mm / Ø0.016 ±0.0098 in. hole

Performance Curves

Thermal Derating Curves

50 A Relays



A: Power dissipation
B: Load current (Arms)
C: Max. ambient temperature (°C)
D: Base plate temperature (°C)
(f) No heat sink
Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

Technical Illustration

Dimensions

