# **Product datasheet**

Specifications





Solid state relay, Harmony, 75A, panel mount, zero voltage switching, input 90…280V AC, output 48…660V AC

SSP1A475M7

① Discontinued

() Discontinued on: 15 Jun 2022

(!) End-of-service on: 31 Mar 2023

#### Main

Range of product	Harmony Solid State Relays	
Product or component type	Panel mount relay	
Device short name	SSP1	
Mounting support	Panel	
Number of phases	1 phase	
[In] rated current	75 A	
solid state output type	Zero voltage switching SCR output	
Output switching mode	Zero voltage switching	

## Complementary

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test button	Without test button	
[Uc] control circuit voltage	90280 V AC	
Minimum switching voltage	90 V AC turn-on	
Maximum switching voltage	10 V AC turn-off	
Response time	30 ms (turn-off) 25 ms (turn-on)	
Input current	510 mA	
Output voltage	48660 V AC	
load current	0.1575 A	
Transient overvoltage	1200 V	
Surge current	1000 A for 16.6 ms	
Maximum I <sup>2</sup> t for fusing	4150 A².s for 8.33 ms at 60 Hz 4555 A².s for 10 ms at 50 Hz	
Co-ordination type	Type 1 - 50 A miniature circuit breaker (MCB) - curve B Type 2 - 40 A miniature circuit breaker (MCB) - curve B	
Maximum leakage current	1 mA off-state	
Maximum voltage drop	<1.15 V on-state	
DV/dt	500 V/µs off-state at maximum voltage	
Power factor	0.5 (with maximum load)	

Motor controller rating	1.5 hp 120 V AC	
	3 hp 240 V AC	
	7.5 hp 480 V AC	
Insulation resistance	1000 MOhm at 500 V DC	
Maximum capacitance	8 pF for input/output	
Dielectric strength	4 kV AC for input/output	
	4 kV AC for input or output to case	
[Uimp] rated impulse withstand	6 kV output to case	
voltage	6 kV input to output	
Tightening torque	1.51.7 N.m for input	
	22.2 N.m for output	
Connections - terminals	Screw terminals: 0.23.3 mm <sup>2</sup> , (AWG 24AWG 12) with cable end for input	
	Screw terminals: 0.55.26 mm <sup>2</sup> , (AWG 20AWG 10) with cable end for output	
	Screw terminals: 0.23.3 mm <sup>2</sup> , (AWG 24AWG 12) without cable end for input	
	Screw terminals: 0.58.26 mm <sup>2</sup> , (AWG 20AWG 8) without cable end for output	
	Forked type tag connectors: 9.2 x 4 mm for input	
	Ring lugs: 9.2 x 4 mm for input	
	Forked type tag connectors: 11.7 x 4.5 mm for output	
	Ring lugs: 11.7 x 4.5 mm for output	
Thermal resistance	0.3 °C/W junction to case	
LED indicator	LED, green for input	
IP degree of protection	IP20	
Safety reliability data	MTTFd = 1875.9 years	
	B10d = 1731395	
Net weight	89.2 g	
device presentation	Complete product	

## Environment

Ambient air temperature for operation	-4080 °C
ambient air temperature for storage	-40125 °C
Pollution degree	2
Overvoltage category	III
Product certifications	CSA EAC CE UL
Marking	UL EAC CE CSA
Standards	CSA C22.2 No 14-13 UL 508 IEC 60950-1 IEC 62314

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.8 cm
Package 1 Width	4.8 cm
Package 1 Length	6.7 cm
Package 1 Weight	102 g

Unit Type of Package 2	S01
Number of Units in Package 2	30
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	3.351 kg

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance



Rohs Exemption Information

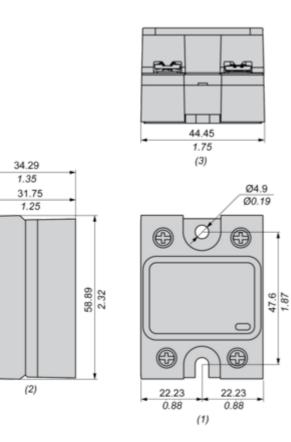
## **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

#### **Dimensions Drawings**

#### Dimensions

mm in.



(1) Front view

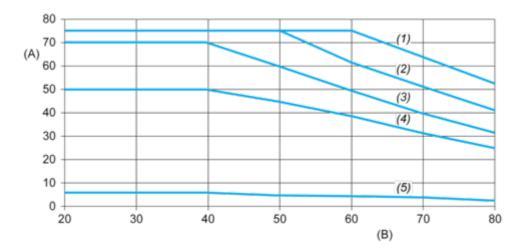
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(2) Side view

(3) Bottom view

#### Performance Curves

#### **Derating Curves**



A : Load Current (Arms)

**B** : Ambient Temperature (°C)

(1) For Heatsink SSRHP02

(2) For Heatsink SSRHP05

(3) For Heatsink SSRHP07(4) For Heatsink SSRHD10

(4) For Heatsink SSI (5) No Heatsink