Product datasheet

Specification





Solid state relay, Harmony, 75A, DIN rail mount, zero voltage switching, input 4...32V DC, output 48...660V AC

SSP1A475BD

Price: 100,061.59 NGN

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	SCR output Zero voltage switching	
Output switching mode	Zero voltage switching	

Complementary

test button	Without test button	
[Uc] control circuit voltage	432 V DC	
Minimum switching voltage	4 V DC turn-on	
Maximum switching voltage	1 V DC turn-off	
Response time	0.5 cycle (turn-on) 0.5 cycle (turn-off)	
Input current	712 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 ² 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	

4 kV AC for input/output
4 kV AC for input or output to case
6 kV output to case
6 kV input to output
1.51.7 N.m for input
22.2 N.m for output
Screw terminals: 0.23.3 mm², (AWG 24AWG 12) with cable end for input
Screw terminals: 0.55.26 mm², (AWG 20AWG 10) with cable end for output
Screw terminals: 0.23.3 mm², (AWG 24AWG 12) without cable end for input
Screw terminals: 0.58.26 mm², (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
0.3 °C/W junction to case
LED, green for input
IP20
B10d = 1731395
MTTFd = 1875.9 years
89.2 g
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 UL EAC CE
Marking	CE CSA EAC UL
Standards	UL 508 CSA C22.2 No 14-13 IEC 62314 IEC 60950-1

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	6.5 cm
Package 1 Weight	101 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 Green Premium*

Green PremiumTM **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-CO₂ products.

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

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

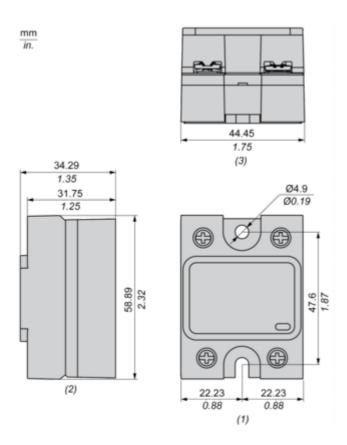
Yes

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

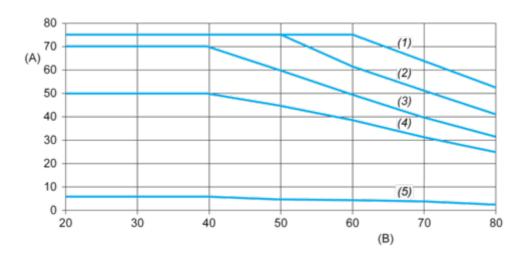
Dimensions



- (1) Front view
- (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
- (5) No Heatsink