SSP1A175BDT

single phase relay, Harmony Solid State Relays, 75A, panel mount, zero voltage switching, thermal pad, input 3 to 32V DC, output 24 to 300V AC





Main

Range of product	Harmony Solid State Relays
Provided accessory	Thermal pad
Product or component type	Solid state relay up to 75 A
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

Complementary	
Minimum switching voltage	3 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	10 mA at 12 V DC
Load current	0.1575 A
Transient overvoltage	600 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
Insulation resistance	1000 MOhm at 500 V DC
Maximum capacitance	10 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 voltage	6 KV output to case 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 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
Thermal resistance	0.3 °C/W junction to case

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Thermal pad impedance	0.48 °C-in²/W at 25 psi	
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[RETURN]EAC[RETURN]CE[RETURN]UL
Marking	CE CSA UL EAC
Standards	CSA C22.2 No 14-13 IEC 62314 IEC 60950-1 UL 508

Packing Units

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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	100 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	3.35 kg

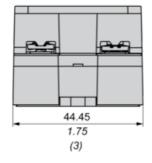
Offer Sustainability

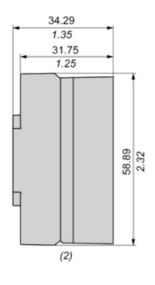
Green Premium product
REACh Declaration
Pro-active compliance (Product out of EU RoHS legal scope)
Yes
China RoHS Declaration
₽¥Yes
Product Environmental Profile
☑ End Of Life Information

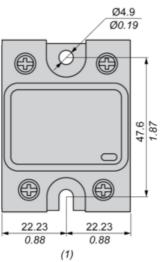
SSP1A175BDT

Dimensions





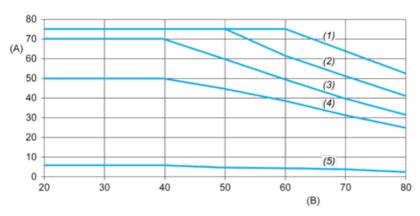




- (1) Front view
- (2) Side view
- (3) Bottom view

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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