

single phase relay, Harmony Solid State Relays, 40A, panel mount, DC switching, thermal pad, input 3.5 to 32V DC, output 1 to 150V DC

SSP1D440BDT

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Harmony Solid State Relays
Provided accessory	Thermal pad
Product or Component Type	Panel mount relay
Device short name	SSP1
Mounting Support	Panel
Number of phases	1 phase
Line Rated Current	40 A
Solid state output type	Mosfet output DC switching
Output switching mode	DC switching

Complementary

test button	Without test button
[Uc] control circuit voltage	3.532 V DC
Minimum switching voltage	3.5 V DC turn-on
Maximum switching voltage	1 V DC turn-off
Response time	0.1 ms (turn-on) 0.1 ms (turn-off)
Input current	1015 mA
Output voltage	1150 V DC
Load current	0.00140 A
Surge current	106 A 10 ms
Co-ordination type	Type 2 - 20 A miniature circuit breaker (MCB) B Type 1 - 40 A miniature circuit breaker (MCB) B
Maximum leakage current	0.3 mA off-state
Maximum voltage drop	<2.1 V on-state
Insulation resistance	1000 MOhm at 500 V DC
Maximum capacitance	50 pF for input/output
Dielectric strength	2.5 kV AC for input/output 2.5 kV AC for input or output to case
[Uimp] rated impulse withstand voltage	2.5 kV output to case

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 input Screw terminals 0.55.26 mm², AWG 20AWG 10) with cable end output Screw terminals 0.23.3 mm², AWG 24AWG 12) without cable end input Screw terminals 0.58.26 mm², AWG 20AWG 8) without cable end output Forked type tag connectors 9.2 x 4 mm input Ring lugs 9.2 x 4 mm input Forked type tag connectors 11.7 x 4.5 mm output Ring lugs 11.7 x 4.5 mm output	
Thermal resistance	0.22 °C/W junction to case	
thermal pad impedance	0.48 °C-in²/W at 25 psi	
LED indicator	LED, green input	
IP degree of protection	IP20	
Safety reliability data	B10d = 1731395 MTTFd = 1875.9 years	
Net Weight	3.1 oz (89.2 g)	
Device presentation	Complete product	

Environment

Ambient Air Temperature for Operation	-40176 °F (-4080 °C)
Ambient Air Temperature for Storage	-40257 °F (-40125 °C)
pollution degree	2
Overvoltage category	III
Product Certifications	UL CE CSA EAC
Marking	EAC CSA UL CE
Standards	CSA C22.2 No 14-13 UL 508 IEC 62314 IEC 60950-1

Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
GTIN	3606485442020
Returnability	Yes
Country of origin	MX

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.50 in (3.800 cm)
Package 1 Width	1.89 in (4.800 cm)
Package 1 Length	2.56 in (6.500 cm)

Package 1 Weight	3.704 oz (105.000 g)
Unit Type of Package 2	S01
Number of Units in Package 2	30
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	5.91 in (15.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	7.716 lb(US) (3.500 kg)



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 >

∇ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	7624
Environmental Disclosure	Product Environmental Profile

Use Better

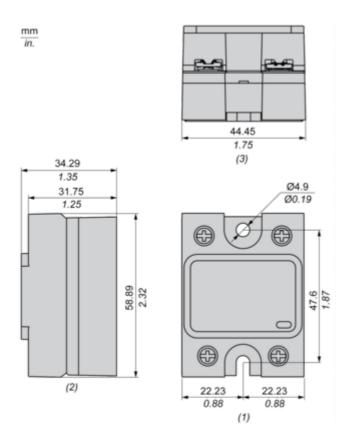
Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No

Dimensions Drawings

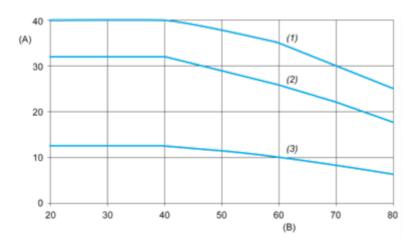
Dimensions



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

Performance Curves

Derating Curves



- A : Load Current (Arms)
 B : Ambient Temperature (°C)
- (1) For Heatsink SSRHD10
- (2) For Heatsink SSRHP17
- (3) No Heatsink

Technical Illustration

Dimensions

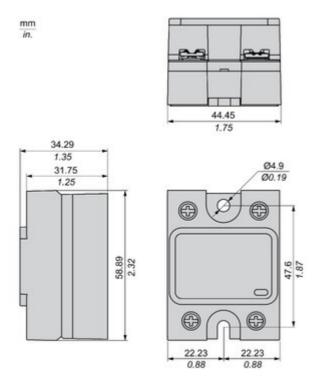
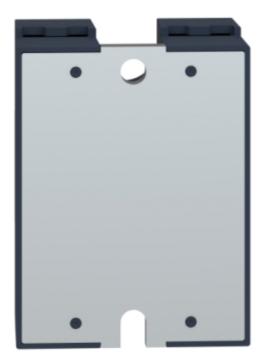


Image of product / Alternate images

Alternative







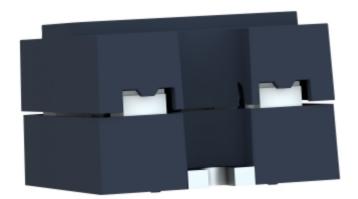






Image of product in real life situation

