Product data sheet
Characteristics

SSP1A475BDT
Harmony, Solid state relay, 75 A, panel mount, zero voltage switching, thermal pad, input 4…32 V DC, output 48…660 V AC

Product availability : Stock - Normally stocked in distribution facility

Green Premium™

Price* : 61.67 USD



Main

Range of product	Harmony Solid State Relays
Product or component type	Solid state relay up to 75 A
Provided accessory	Thermal pad
Device short name	SSP1
Mounting support	Panel
Number of phases	1 phase
Line Rated Current	75 A
Solid state output type	Zero voltage switching SCR output
Output switching mode	Zero voltage switching

Complementary

[Uc] control circuit voltage	4...32 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	7…12 mA
Output voltage	48...660 V AC
Load current	0.15…75 A
Transient overvoltage	1200 V
Surge current	1000 A 16.6 ms
Maximum I²t 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) B

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

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

	Type 2 - 40 A miniature circuit breaker (MCB) 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 voltage	6 kV output to case 6 kV input to output
Tightening torque	1.5...1.7 N.m for input 2...2.2 N.m for output
Connections - terminals	Screw terminals 0.2...3.3 mm², AWG 24...AWG 12) with cable end input Screw terminals 0.5...5.26 mm², AWG 20...AWG 10) with cable end output Screw terminals 0.2...3.3 mm², AWG 24...AWG 12) without cable end input Screw terminals 0.5...8.26 mm², AWG 20...AWG 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	0.3 °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	3.15 oz (89.2 g)
Device presentation	Complete product

Environment

Ambient air temperature for operation	-40…176 °F (-40…80 °C)
Ambient air temperature for storage	-40…257 °F (-40…125 °C)
Pollution degree	2
Overvoltage category	III
Product certifications	CE EAC UL CSA
Marking	CSA CE UL EAC
Standards	EN/IEC 60950-1 UL 508 CSA C22.2 No 14-13 EN/IEC 62314

Ordering and shipping details

Category	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	03606485442082
Nbr. of units in pkg.	1
Package weight(Lbs)	3.53 oz (100 g)
Returnability	Yes
Country of origin	MX

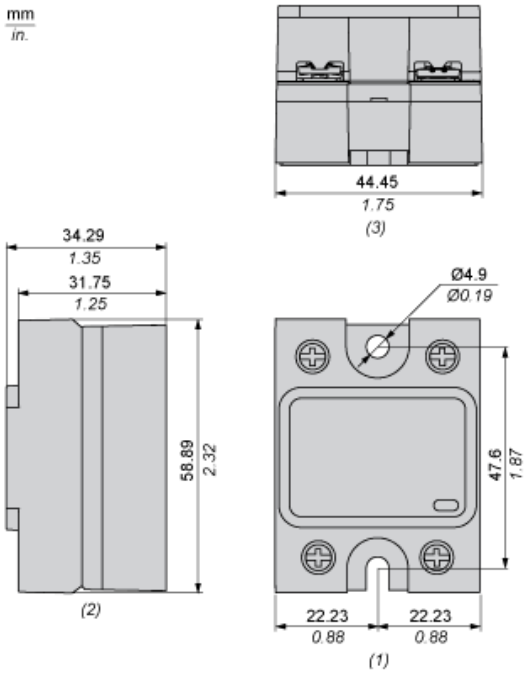
Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.50 in (3.8 cm)
Package 1 width	1.89 in (4.8 cm)
Package 1 Length	2.56 in (6.5 cm)

Offer Sustainability

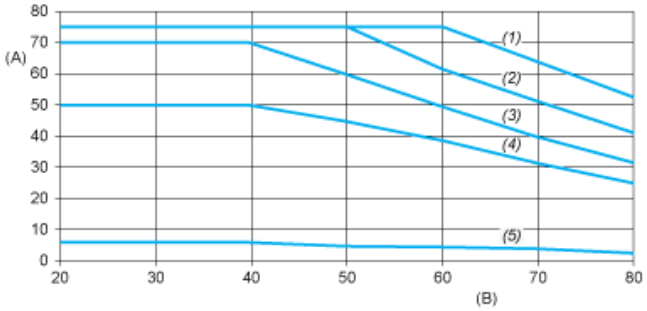
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Dimensions



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

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