

# Product data sheet

Specifications



three phase relay, Harmony Solid State Relays, 25A, panel mount, random switching, thermal pad, input 4 to 32V DC, output 42 to 660V AC

SSP3A225BDRT

! Discontinued

! Discontinued on: May 22, 2023

Product availability: Non-Stock - Not normally stocked in distribution facility

## Main

Range Of Product	Harmony Solid State Relays
Provided Accessory	Thermal interface
Product Or Component Type	Solid state relay up to 30 A
Device Short Name	SSP
Mounting Support	Panel
Number Of Phases	3 phase
Line Rated Current	25 A
Solid State Output Type	Random voltage switching
Output Switching Mode	Random voltage switching

## Complementary

Control Type	Without test button
Minimum Switching Voltage	4 V DC turn-on
Maximum Switching Voltage	1 V DC turn-off
Response Time	8.33 ms (turn-off) 0.1 ms (turn-on)
Input Current	15...35 mA
Load Current	0.15...25 A
Transient Overvoltage	1200 V
Surge Current	275 A 20 ms 300 A 16.6 ms
Maximum I²T For Fusing	380 A².s for 10 ms at 50 Hz 370 A².s for 8.3 ms at 60 Hz
Co-Ordination Type	TVS
Maximum Leakage Current	3 mA off-state
Maximum Voltage Drop	<1.4 V on-state
Dv/Dt	500 V/µs off-state at maximum voltage
Power Factor	0.5 (with maximum load)

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

Motor Controller Rating	0.75 hp 104 °F (40 °C) 120 V AC 1 hp 104 °F (40 °C) 240 V AC 3 hp 104 °F (40 °C) 480 V AC 5 hp 104 °F (40 °C) 600 V AC
Motor Power Kw	0.55 kW 104 °F (40 °C) 120 V AC 0.75 kW 104 °F (40 °C) 240 V AC 2.2 kW 104 °F (40 °C) 480 V AC 3.7 kW 104 °F (40 °C) 600 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	0.8 kV for input to case 6 kV for input/output circuit 6 kV for input/output to case
Tightening Torque	1.2 N.m for input 2.5 N.m for output
Connections - Terminals	Screw terminals 1 x 0.2...1 x 2.5 mm², AWG 24...AWG 14) input Screw terminals 1 x 1.5...1 x 10 mm², AWG 16...AWG 8) output
Thermal Resistance	0.24 °C/W
Led Indicator	LED, green input
Ip Degree Of Protection	IP20
Electromagnetic Compatibility	Electrostatic discharge 4 kV criteria B contact discharge conforming to IEC 61000-4-2 Electrostatic discharge 8 kV criteria B air discharge conforming to IEC 61000-4-2 Conducted RF disturbances 10 V, 0.15...80 MHz criteria A conforming to IEC 61000-4-6 Radiated radio-frequency electromagnetic field immunity test 10 V/m, 80 MHz...1 GHz criteria A conforming to IEC 61000-4-3 Surge immunity test 1 kV criteria B output ports line to line conforming to IEC 61000-4-5 Surge immunity test 2 kV criteria B output ports line to earth conforming to IEC 61000-4-5 Surge immunity test 1 kV criteria B input ports line to earth conforming to IEC 61000-4-5 Electrical fast transient/burst immunity test 2 kV, 5kHz criteria B output ports conforming to IEC 61000-4-4 Immunity to voltage dips 0 %/20 ms criteria B conforming to IEC 61000-4-11 Immunity to voltage dips 40 %/200 ms criteria C conforming to IEC 61000-4-11 Immunity to voltage dips 70 %/500 ms criteria C conforming to IEC 61000-4-11 Immunity to short interruption 0 %/5 s criteria C conforming to IEC 61000-4-11 Electrical fast transient/burst immunity test 1 kV, 5kHz criteria B input ports conforming to IEC 61000-4-4 Radiated radio-frequency electromagnetic field immunity test 3 V/m, 1.4...6 GHz criteria A conforming to IEC 61000-4-3 Radiated emission 30...1000 Mhz environment A conforming to IEC 60947-1 Conducted emission 0.15...30 Mhz environment A conforming to IEC 60947-1
Net Weight	0.82 lb(US) (0.37 kg)
Width	4.09 in (104 mm)
Height	2.94 in (74.6 mm)
Depth	1.61 in (41 mm)
Device Presentation	Complete product

## Environment

Flame Retardance	V0 conforming to UL 94
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 CSA EAC UL UKCA
Marking	CE
Standards	IEC/EN 62314 IEC/EN 60947-4-2 IEC/EN 60947-4-3 UL 60947-4-2 C22.2 No. 14

## Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
Gtin	3606480580062
Returnability	No
Country Of Origin	MX

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.81 in (4.6 cm)
Package 1 Width	3.15 in (8.0 cm)
Package 1 Length	4.53 in (11.5 cm)
Package 1 Weight	12.84 oz (364 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	24
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	20.05 lb(US) (9.094 kg)

## Sustainability


**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class 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.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

## Well-being performance

 Lead Free

 Rohs Exemption Information [Yes](#)

Reach Regulation [REACH Declaration](#)

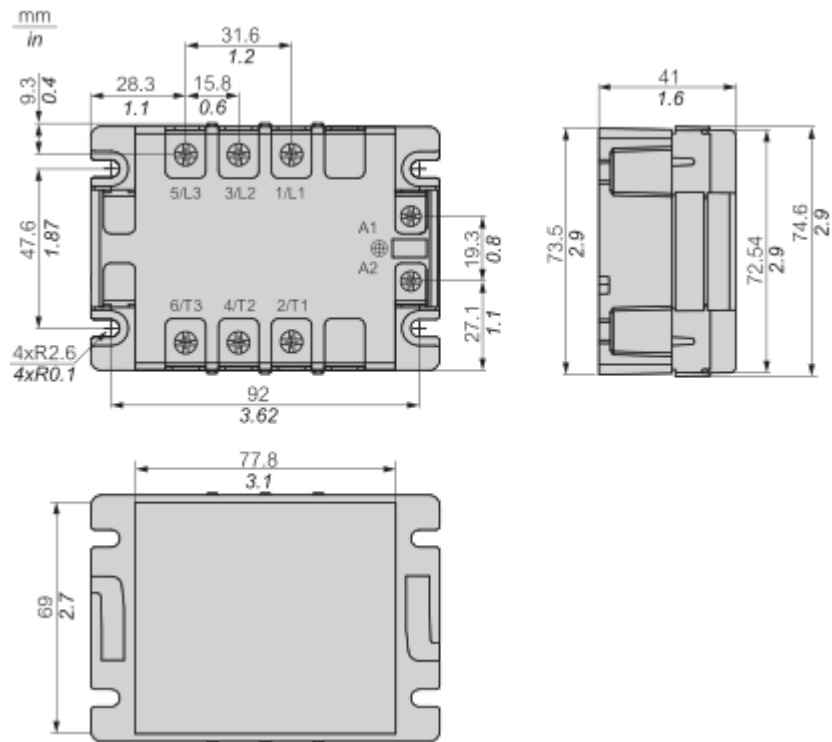
Eu Rohs Directive Pro-active compliance (Product out of EU RoHS legal scope)

China Rohs Regulation [China RoHS 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](http://www.P65Warnings.ca.gov)

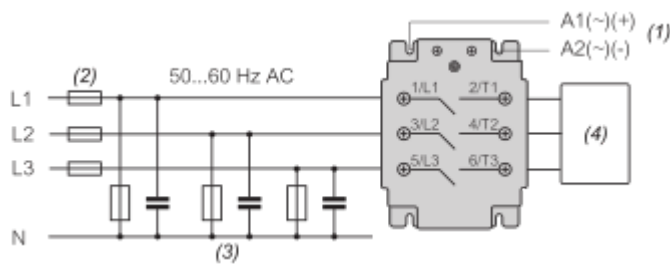
Dimensions Drawings

Dimensions



Connections and Schema

Wiring

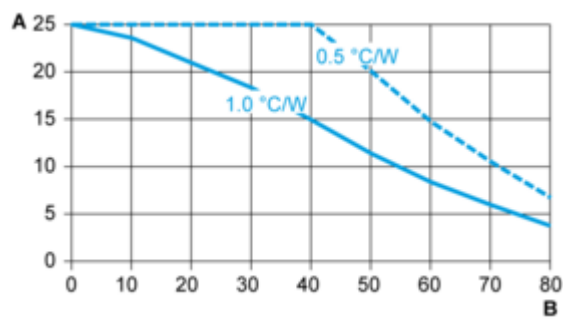


- (1) Setting control voltage in between turn on and turn off voltage may cause malfunction or damage the SSR.
- (2) Recommended fuses.
- (3) Recommended to install filters if Conductive Emission (CE) Class A is required.
- (4) Load.

Performance Curves

Derating Curves

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A : Load Current (Amperes)  
B : Ambient Temperature (°C)