

Product data sheet

Specifications



Relay, SE Relays, solid state, SPST NO, 50A, 48V to 530V AC, 90V to 280V AC Uc, SCR AC zero cross, screw terminal

6450AXXSZS-AC90

! Discontinued

! Discontinued on: Aug 7, 2023

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

Main

Range	Legacy
Product Type	Solid state relay
maximum output current	50 A AC
Mounting Support	Panel
Network Number of Phases	1 phase
Output Voltage	48...530 V AC
Control Circuit Voltage	90...280 V AC

Complementary

Input Impedance	13000 Ohm
Holding Current	250 mA
Input Current Limits	2 mA at 120 V AC typical 4 mA at 240 V AC typical
Switch Function	SPST
Contacts Type and Composition	NO
Protection Type	Reverse polarity protection
Tightening Torque	10 lb.in for input 20 lb.in for output
Connections Terminals	Input screw clamp terminal, 1 Output screw clamp terminals, 1
Screw Type	M3.5 M6
Local Signalling	1 LED (green) for input status
Switching Device	SCR output Zero voltage switching
Maximum Peak Voltage	800 V
Surge Current	625 A 16.6 ms
Must Release Voltage	10 V
Voltage Drop	<1.7 V on-state AC
Power Factor	1 with maximum load
Insulating Resistance	1 GΩ

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

Thermal Resistance	0.63 °C/W
Maximum I²t for fusing	1035 A².s 8.3 ms
Leakage Current	10 mA at off-state
DV/dt	500 V/µs off-state at maximum rated voltage
Response Time	10 ms (turn-on) 40 ms (turn-off)
Dielectric Strength	4000 V between input and ground 4000 V between output and ground 4000 V between input and output
Height	1.4 in (35.3 mm)
Width	1.9 in (47.1 mm)
Depth	2.3 in (58.4 mm)
Product Weight	3.7 oz (105 g)

Environment

Product Certifications	UL CSA CE
IP Degree of Protection	IP20
Ambient Air Temperature for Operation	-40...176 °F (-40...80 °C)
Ambient Air Temperature for Storage	-40...257 °F (-40...125 °C)

Ordering and shipping details

Category	US10CP221127
Discount Schedule	0CP2
GTIN	3606480277535
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.280 in (5.791 cm)
Package 1 Width	1.709 in (4.342 cm)
Package 1 Length	1.738 in (4.414 cm)
Package weight(Lbs)	3.05 oz (86.5 g)

Contractual warranty

Warranty (in months)	18
----------------------	----



Environmental Data

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 >](#)

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	134201bc-d293-4667-9cca-10a7f11729e0
EU RoHS Directive	Compliant By Exemption
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 Longer

Lifetime extension	
Repair	No

Connections and Schema

Connections and Wiring Diagrams

