

Product data sheet

Characteristics

6425AXXSZS-AC90

Relay, Legacy, solid state, SPST NO, 25A, 48...530 VAC, 90...280 VAC U_c, SCR AC zero cross, screw terminal



Main

Range	Legacy
Product Type	Solid state relay
Nominal Output Current	25 A AC
Network Number of Phases	1 phase
Mounting Support	Panel
Output Voltage	48...530 V AC
Control Circuit Voltage	90...280 V AC

Complementary

Input Impedance	13000 Ohm
Holding Current	120 mA
Input Current Limits	11 mA 120 V AC typical 20 mA 240 V AC
Switch Function	SPST
Contacts Type and Composition	NO
Protection Technology	Current limiter
Tightening Torque	10 lb.in input 20 lb.in output
Connections Terminals	Input screw clamp terminal, 1 Output screw clamp terminals, 1
Screw Type	M3.5 M6
Local Signalling	Input status 1 LED green)
Switching Device	SCR output Zero voltage switching
Maximum Peak Voltage	800 V
Surge Current	250 A 16.6 ms
Must Release Voltage	10 V
Voltage Drop	<1.6 V on-state for AC
Power Factor	With maximum load
Insulating Resistance	1 GΩ
Thermal Resistance	1.02 °C/W
Maximum I ² t for fusing	312 A ² .s 8.3 ms
Leakage Current	10 mA at off-state
DV/dt	300 V/ms off-state at maximum rated voltage
Response Time	8.33 ms turn-on) 8.33 ms turn-off)
Dielectric Strength	4000 V between input and ground 4000 V between output and ground 4000 V between input and output
Height	1.39 in (35.3 mm)
Width	1.85 in (47.1 mm)
Depth	2.30 in (58.4 mm)
Product Weight	3.05 oz (86.5 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

GTIN	03606480277450
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Offer Sustainability

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
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Connections and Wiring Diagrams

