

Product data sheet

Specifications



Relay, SE Relays, solid state, SPST
NO, 10A, 48...600 VAC, 90...208
VAC, SCR, AC zero cross,
hazardous locations approved

861HSSR610-AC-1

! 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	10 A AC
Mounting Support	Panel DIN rail
Network Number of Phases	1 phase
Output Voltage	48...600 V AC
Control Circuit Voltage	90...280 V AC

Complementary

Holding Current	50 mA
Input Current Limits	12 mA at 5 V DC typical
Switch Function	SPST
Contacts Type and Composition	NO
Tightening Torque	0.8 N.m for input/output
Connections Terminals	Input/output screw clamp terminal 0.004 in ² (2.5 mm ²) AWG 14)
Local Signalling	1 LED (green) for input status
Switching Device	SCR output Zero voltage switching
Load Current	10 A at nominal load 8 A incandescent lamp 4.5 A motor
Overload Current	24 A for 1 second
Surge Current	500 A 1 cycle
Must Release Voltage	10 V
Voltage Drop	<1.6 V peak AC <1.25 V on-state AC
Thermal Resistance	0.66 °C/W
Maximum I ² t for fusing	600 A ² .s 8.3 ms
Leakage Current	6 mA at off-state 600 V AC
DV/dt	200 V/μs off-state at maximum rated voltage

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

Response Time	40 ms (turn-off) 40 ms (turn-on)
Dielectric Strength	4000 V between input and output 2500 V between terminals and chassis
Height	2.6 in (65 mm)
Width	0.62 in (15.75 mm)
Depth	3.54 in (89.93 mm)
Product Weight	4.5 oz (127.1 g)
Device Presentation	Complete device

Environment

Product Certifications	CE CSA UL
IP Degree of Protection	IP20
Ambient Air Temperature for Operation	-22...176 °F (-30...80 °C)
Ambient Air Temperature for Storage	-40...212 °F (-40...100 °C)

Ordering and shipping details

Category	US10CP221127
Discount Schedule	0CP2
GTIN	3606480282171
Returnability	No
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.64 in (9.24 cm)
Package 1 Width	0.69 in (1.76 cm)
Package 1 Length	2.56 in (6.5 cm)
Package 1 Weight	4.5 oz (127.1 g)

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 without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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	
WEEE	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

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Dimensions Drawings

Approximate Dimensions



