Product data sheet
Characteristics

861SSR210-DC-1
Relay, SE Relays, solid state, SPST NO, 10A, 24…280 VAC, 3...32 VDC, SCR, AC zero cross



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	24...280 V AC
Control Circuit Voltage	3...32 V DC

Complementary

Holding Current	50 mA
Input Current Limits	30 mA at 32 V DC typical
Switch Function	SPST
Contacts Type and Composition	NO
Protection Technology	Current limiter
Protection Type	Reverse polarity protection
Tightening Torque	0.8 N.m for input/output
Connections Terminals	Input/output screw clamp terminal 0.00 in² (2.5 mm²) AWG 14)
Local Signalling	for input status 1 LED (green)
Switching Device	SCR output Zero voltage switching
Load Current	10 A at nominal load 8 A incandescent lamp 4.5 A motor
Maximum Peak Voltage	400 V
Overload Current	24 A for 1 second
Surge Current	500 A 1 cycle
Must Release Voltage	1 V
Voltage Drop	<1.6 V peak for AC <1.25 V on-state for AC
Thermal Resistance	0.66 °C/W
Maximum I²t for fusing	1250 A².s 8.3 ms

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

Leakage Current	6 mA at off-state 240 V AC
DV/Dt	500 V/µs off-state at maximum rated voltage
Response Time	8.33 ms (turn-off) 8.33 ms (turn-on)
Dielectric Strength	4000 V between input and output 2500 V between terminals and chassis
Height	2.56 in (65 mm)
Width	0.62 in (15.75 mm)
Depth	3.54 in (89.83 mm)
Product Weight	4.48 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

GTIN	03606480282232

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.

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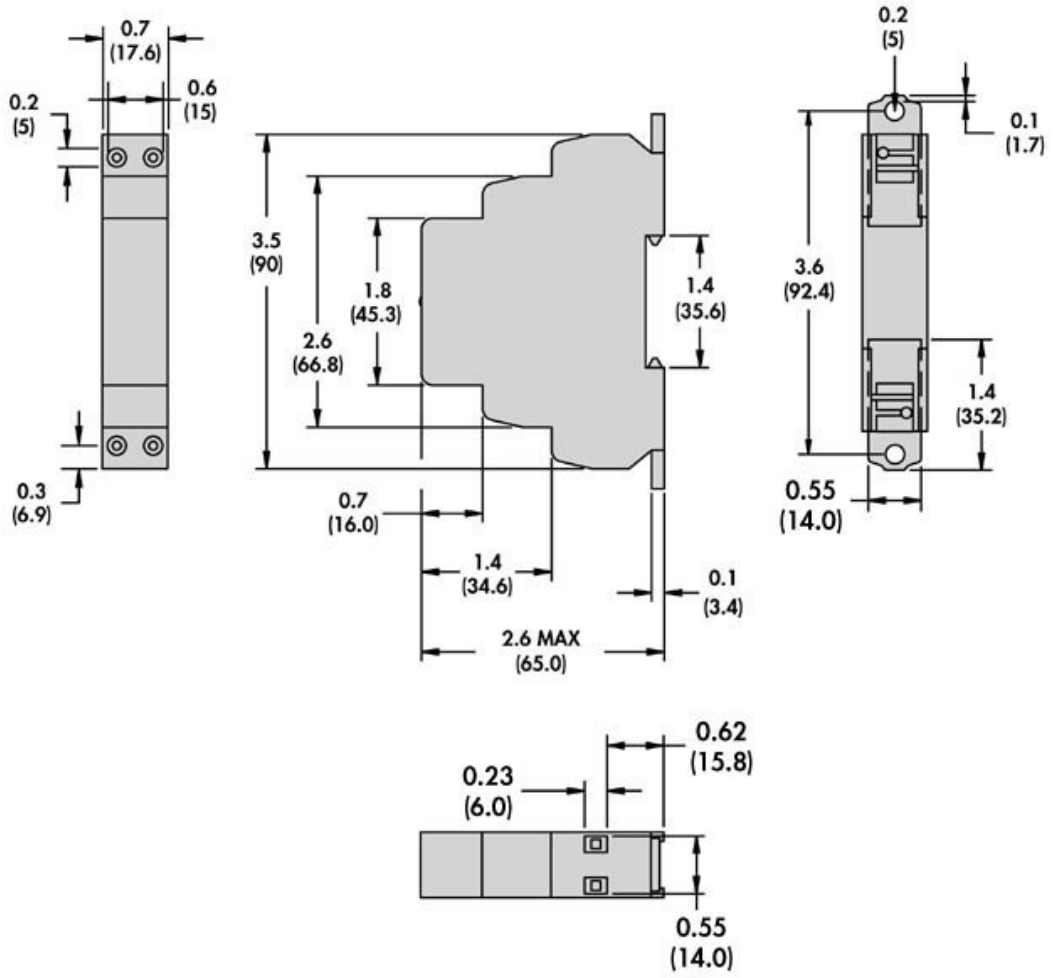
Approximate Dimensions



Connections and Wiring Diagrams

