

Product data sheet

Specifications



Solid state relay, Harmony Relay,
DIN rail mount, input 90...280 V AC,
output 24 280 V AC, 45 A

SSRDF8S45A1

⚠ Discontinued on: Jan 19, 2021

⚠ Discontinued

Main

Range of Product	Zelio Relay
Product or Component Type	Solid state relay
Device short name	SSR
Phase	1 phase
Mounting Support	Symmetrical DIN rail
Line Rated Current	45 A
Output voltage	24...280 V AC
[Uc] control circuit voltage	90...140 V AC

Complementary

Contacts type and composition	1 NO
Tightening torque	0.6...0.7 N.m for input 1.1...1.7 N.m for output
Connections - terminals	Screw terminals 1 x 0.2...1 x 3.3 mm ² input - AWG 24...AWG 12 Screw terminals 1 x 0.2...1 x 8.4 mm ² output - AWG 24...AWG 8
Local signalling	LED (green) for input status
Switching voltage	90 V AC turn-on 10 V AC turn-off
Input current limits	15 mA
Solid state output type	Zero voltage switching SCR output
Load current	0.15...45 A
output sustained overvoltage	600 V
Surge current	625 A 16.6 ms
Maximum voltage drop	<1.6 V on-state
Maximum I ² t for fusing	1620 A ² .s 8.3 ms
Maximum leakage current	10 mA off-state
DV/dt	500 V/μs off-state at maximum voltage
Response time	0.5 cycle (turn-on) 0.5 cycle (turn-off)

Environment

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

Standards	UL E258297 IEC 60950-1 IEC 62314 CSA LR 40487
Marking	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	22375-INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	3606480076480
Returnability	No
Country of origin	MX

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 >](#)

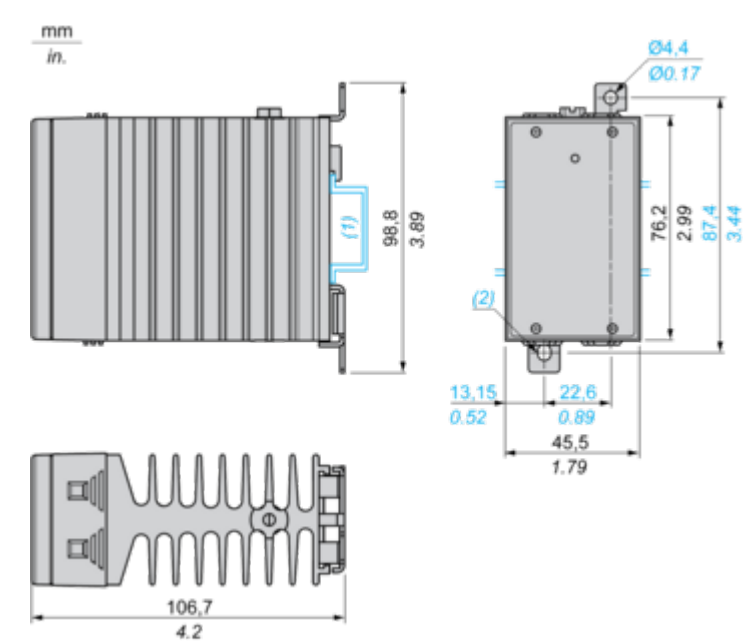
Use Longer

Lifetime extension	
Repair	No

Dimensions Drawings

Dimensions

DIN Rail Mounting

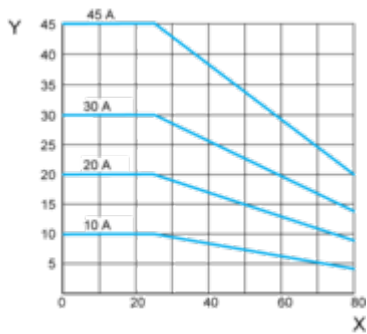


- (1) 35 mm/1.37 in. DIN rail.
- (2) Ø 4.4 mm x 5.5 mm / Ø 0.17 in. x 0.22 in. elongated hole

Performance Curves

Thermal Derating Curves

10...45 A Relays



X Ambient temperature (°C)

Y Output current (Arms)

Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

Technical Illustration

Dimensions

