

Product datasheet

Specifications



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

SSRDCF8S45A1

⚠ Discontinued on: Aug 27, 2020

⚠ End-of-service on: Jan 19, 2021

⚠ Discontinued

Main

Range Of Product	Zelio Relay
Product Or Component Type	Solid state relay
Device Short Name	SSR
Network Number Of Phases	1 phase
Mounting Support	Symmetrical DIN rail
[In] 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 for input - AWG 24...AWG 12 Screw terminals 1 x 0.2...1 x 8.4 mm ² for 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 for 16.6 ms
Maximum Voltage Drop	<1.6 V on-state
Maximum I ² T For Fusing	1620 A ² .s for 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

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...80 °C
Ambient Air Temperature For Storage	-40...125 °C

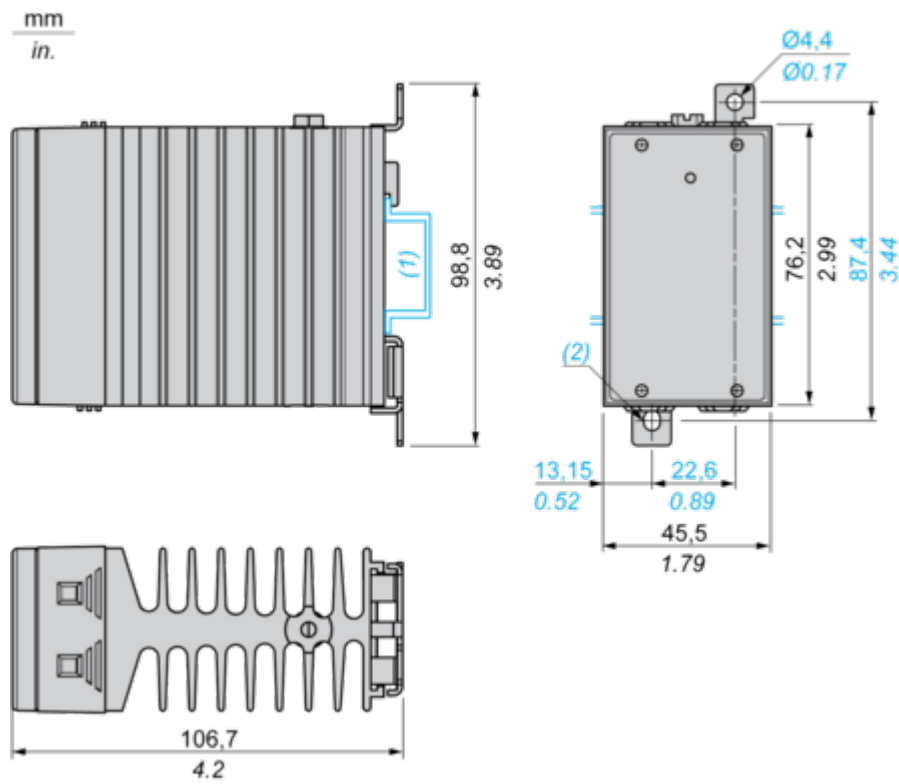
Contractual warranty

Warranty	18 months
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Dimensions Drawings

Dimensions

DIN Rail Mounting

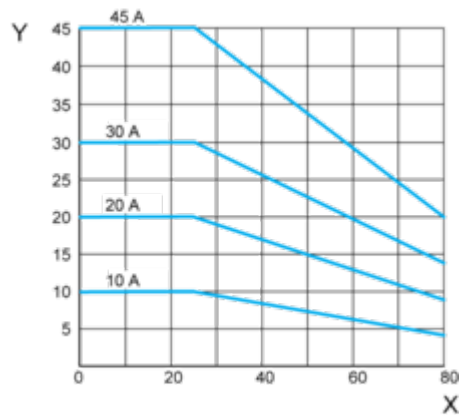


- (1) 35 mm/1.37 in. DIN rail.
(2) Ø 4.4 mm x 5.5 mm / Ø 0.17 in. x 0.22 in. elongated hole

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.