# Product data sheet

Specifications



① Discontinued

# solid state relay - DIN rail mount input 90-140Vac, output 24-280Vac, 45A

SSM1A145F7

() Discontinued on: Dec 2, 2020

(!) End-of-service on: Dec 31, 2020

#### Main

Range of Product	Harmony Relay
Product or Component Type	Solid state relay
Device short name	SSM1
Number of phases	1 phase

## Complementary

Complementary	
Mounting Support	Symmetrical DIN rail
Line Rated Current	45 A
Output voltage	24280 V AC
[Uc] control circuit voltage	90140 V AC
contacts type and configuration	1 NO
Tightening torque	0.60.7 N.m for input 1.361.7 N.m for output
Connections - terminals	Screw terminals 1 x 0.21 x 3.3 mm <sup>2</sup> , AWG 24AWG 12) input Screw terminals 1 x 0.21 x 8.4 mm <sup>2</sup> , AWG 24AWG 8) output
maximum capacitance	8 pF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	for input status LED (green)
Switching voltage	90 V AC turn-on 10 V AC turn-off
input current	15 mA at 120 Vrms
solid state output type	SCR output Zero voltage switching
load current	0.1545 A
transient overvoltage	600 V
Surge current	625 A 16.6 ms
Maximum voltage drop	<1.6 V on-state
Maximum I <sup>2</sup> t for fusing	1620 A <sup>2</sup> .s for 8.3 ms
Maximum leakage current	10 mA off-state
DV/dt	500 V/µs off-state at maximum voltage
Response time	10 ms (turn-on) 40 ms (turn-off)

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

Overvoltage category	III
Net Weight	1.049 lb(US) (0.476 kg)

## Environment

Dielectric strength	4 kV AC for input/output
Ŭ	4 kV AC for input or output to case
Pollution degree	2
Standards	UL 508
otandarus	
	IEC 60950-1
	CSA C22.2 No 14
Product Certifications	EAC
	UL
	CSA
marking	CE
	EAC
	CSA
	UL
IP degree of protection	IP20
Ambient Air Temperature for Operation	-40176 °F (-4080 °C)
Ambient Air Temperature for Storage	-40257 °F (-40125 °C)

# Ordering and shipping details

Category	22375-INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	3606485441641
Returnability	No
Country of origin	MX

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.4 in (6 cm)
Package 1 Width	4.3 in (11 cm)
Package 1 Length	4.6 in (11.8 cm)
Package 1 Weight	18.2 oz (517 g)

## **Sustainability**

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

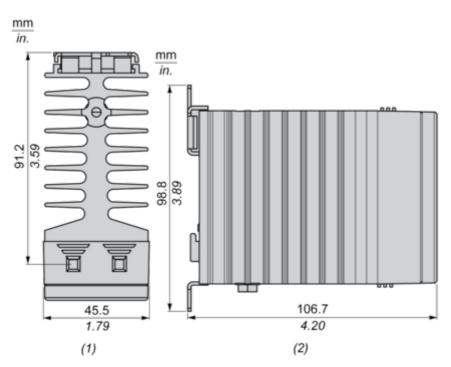
### Well-being performance

Yes
Pro-active compliance (Product out of EU RoHS legal scope)
China RoHS declaration
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

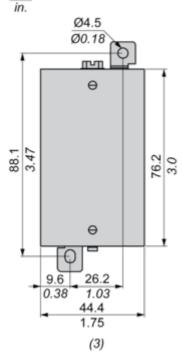
**Product data sheet** 

**Dimensions Drawings** 

#### Dimensions



mm



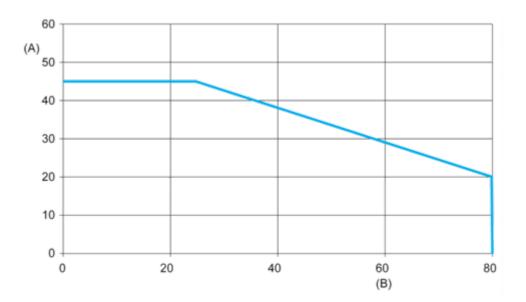
(1) Top view(2) Side view

(3) Front view

# Product data sheet

#### Performance Curves

#### **Derating Curves**



A : Load Current (Amperes)

B : Ambient Temperature (°C)