Product data sheet

Specifications



Discontinued

single phase relay, Harmony Solid State Modular Relayss, 12A, DIN rail mount, zero voltage switching, input 90 to 140V AC, output 24 to 280V AC

SSM1A112F7

Discontinued on: Mar 10, 2026

To be end-of-service on: Dec 31, 2026

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Harmony Solid State Relays
Product or Component Type	Modular DIN rail relay
Device short name	SSM
Number of Channels	1
Number of phases	1 phase
Mounting Support	Symmetrical DIN rail
Line Rated Current	12 A
Output switching mode	Zero voltage switching

Complementary

Output voltage	24...280 V AC
Tightening torque	0.5...0.8 N.m for input 0.5...0.8 N.m for output
Connections - terminals	Screw terminals 1 x 0.3...1 x 1.5 mm², 22 AWG...16 AWG) input Screw terminals 1 x 0.3...1 x 2.5 mm², 22 AWG...14 AWG) output
Dielectric strength	4 kV AC for input/output 4 kV AC for input or output to case
maximum capacitance	10 pF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	LED (green) for input status
pick-up voltage	90 V AC turn-on
drop out voltage	10 V AC turn-off
solid state switching type	SCR output Zero voltage switching
Load current	0.15…12 A
transient overvoltage	600 V
Maximum voltage drop	<1.3 V on-state
Maximum I²t for fusing	2560 A².s for 10 ms at 50 Hz 2330 A².s for 8.33 ms at 60 Hz

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

Maximum leakage current	0.1 mA off-state
DV/dt	500 V/µs off-state at maximum voltage
Response time	0.5 cycle (turn-on) 30 ms (turn-off)
power factor	0.5 (with maximum load)
Overvoltage category	III
Marking	CE
Width	0.7 in (18.5 mm)
Height	3.4 in (87.5 mm)
Depth	3.3 in (83.5 mm)
test button	Without test button
Net Weight	0.165 lb(US) (0.075 kg)
Device presentation	Complete product
[Ui] Rated Insulation Voltage	280 V

Environment

Flammability rating	V0 conforming to UL 94
Pollution degree	2
Standards	IEC 61000 IEC 60950-1 IEC 62314
Product Certifications	UL CSA
IP degree of protection	IP20
Ambient Air Temperature for Operation	-22…176 °F (-30…80 °C)
Ambient Air Temperature for Storage	-22…212 °F (-30…100 °C)

Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
GTIN	3606480579493
Returnability	Yes

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.0 in (2.5 cm)
Package 1 Width	3.5 in (9.0 cm)
Package 1 Length	3.7 in (9.5 cm)
Package weight(Lbs)	3.5 oz (98.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	72
Package 2 Height	5.9 in (15 cm)

Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	17.024 lb(US) (7.722 kg)

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 >

Environmental footprint

Total lifecycle Carbon footprint	**4 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**0.5 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**3 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.1 kg CO2 eq.**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
SCIP Number	**134201bc-d293-4667-9cca-10a7f11729e0**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
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**

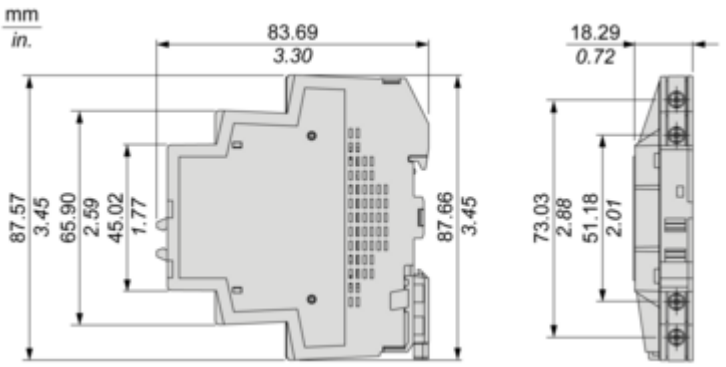
Use Again

Repack and remanufacture

Recyclability potential, in %	**94**
Take-back	**No**

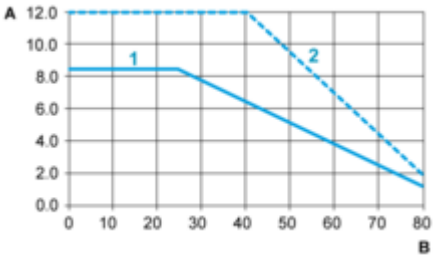
Dimensions Drawings

Dimensions



Performance Curves

Derating Curves



A : Load Current (Amperes)
B : Ambient Temperature (°C)
1 : Multiple units, no minimum spacing between components
2 : Installed single unit, distance to adjacent components more than 18 mm

Image of product / Alternate images

Alternative




Amps
12.0
8.0
4.0
20
40
60
80
Ambient Temperature (°C)
MULTIPLE UNITS
(NO SPACING)
INSTALLED SINGLE UNIT
CAUTION
HOT SURFACE

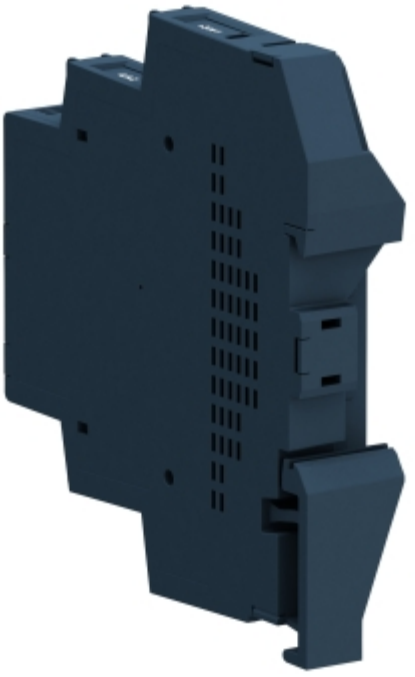


Image of product in real life situation

