

(!) Discontinued

Harmony, Solid state modular relay, 55 A, DIN rail mount, zero voltage switching, input 90...140 V DC, output 48...660 V AC

SSM1A455F7

Discontinued on: May 19, 2023

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

Main

Range Of Product	Harmony Solid State Relays
Product Or Component Type	Solid state relay up to 75 A
Device Short Name	SSM1
Number Of Phases	1 phase
Output Switching Mode	Zero voltage switching

Complementary

Mounting Support	Symmetrical DIN rail	
Line Rated Current	55 A	
Output Voltage	48660 V AC	
[Uc] Control Circuit Voltage	90140 V AC	
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 mm², AWG 24AWG 12) input Screw terminals 1 x 0.21 x 8.4 mm², 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	Zero voltage switching SCR output	
Load Current	0.1555 A	
Transient Overvoltage	1200 V	
Surge Current	1000 A 16.6 ms	
Maximum Voltage Drop	<1.7 V on-state	
Maximum I ² T For Fusing	4150 A².s for 8.3 ms	
Maximum Leakage Current	1 mA off-state	
Dv/Dt	500 V/μs off-state at maximum voltage	

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

Response Time	10 ms (turn-on) 40 ms (turn-off)
Overvoltage Category	III
Net Weight	1.05 lb(US) (0.476 kg)

Environment

Dielectric Strength	4 kV AC for input/output 4 kV AC for input or output to case
Pollution Degree	2
Standards	CSA C22.2 No 14 UL 508 IEC 60950-1
Product Certifications	EAC UL CSA
Marking	UL CSA CE EAC
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	US10CP222375	
Discount Schedule	0CP2	
Gtin	3606485441672	
Returnability	No	
Country Of Origin	MX	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.36 in (6.0 cm)
Package 1 Width	4.53 in (11.5 cm)
Package 1 Length	4.65 in (11.8 cm)
Package 1 Weight	18.31 oz (519.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	12
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	14.74 lb(US) (6.688 kg)

Sustainability

Green PremiumTM 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-CO₂ 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 >

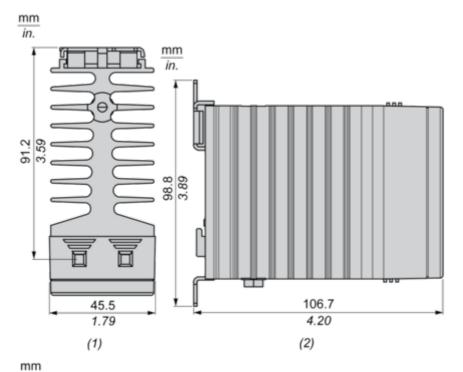
Guide to assess a product's sustainability >

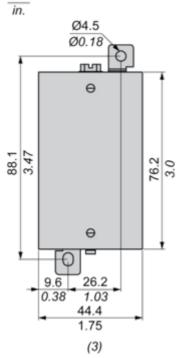
Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)

Dimensions Drawings

Dimensions





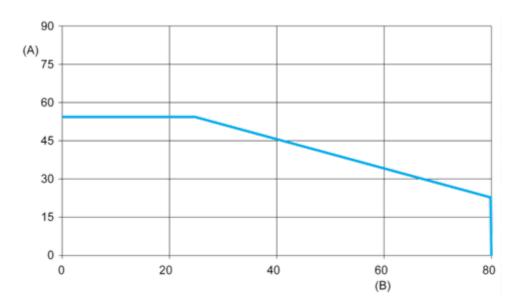
- (1) Top view(2) Side view
- (3) Front view

Product data sheet

SSM1A455F7

Performance Curves

Derating Curves



A : Load Current (Amperes)
B : Ambient Temperature (°C)