SSM1A112BDR

single phase relay, Harmony Solid State Slim Relays, 12A, DIN rail mount, random swtching, input 4 to 32V DC, output 24 to 280V AC





Main

TVI CALL	
Range of product	Harmony Solid State Relays
Product or component type	Solid state relay up to 20 A
Device short name	SSM
Number of channels	1
Number of phases	1 phase
Output switching mode	Random voltage switching

Complementary

Complementary	
Mounting support	Symmetrical DIN rail
[In] rated current	12 A
Output voltage	24280 V AC
[Uc] control circuit voltage	432 V DC
Tightening torque	0.50.8 N.m for input 0.50.8 N.m for output
Connections - terminals	Screw terminals: 1 x 0.31 x 1.5 mm 2 , (AWG 22AWG 16) for input Screw terminals: 1 x 0.31 x 2.5 mm 2 , (AWG 22AWG 14) for output
Maximum capacitance	10 pF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	LED (green) for input status
Minimum switching voltage	4 V DC turn-on
Maximum switching voltage	1 V DC turn-off
Input current	911 mA
Solid state output type	SCR output Random voltage switching
Load current	0.1512 A
Transient overvoltage	600 V
Surge current	715 A for 16.6 ms 750 A for 20 ms
Maximum voltage drop	<1.3 V on-state
Motor power hp	0.33 hp 40 °C 240 V AC
Maximum I ² t for fusing	2560 A².S for 10 ms at 50 Hz 2330 A².s for 8.33 ms at 60 Hz
Maximum leakage current	0.1 mA off-state
DV/dt	500 V/µs off-state at maximum voltage
Response time	0.5 cycle (turn-off)
Power factor	0.5 (with maximum load)
Overvoltage category	III
Width	18 mm
Height	90.3 mm
Depth	83.7 mm
Net weight	0.09 kg

Environment

Flame retardance	V0 conforming to UL 94
Dielectric strength	4 KV AC for input/output 4 kV AC for input or output to case
Pollution degree	2
Standards	IEC 60950-1 IEC 61000 IEC 62314
Product certifications	UL[RETURN]CSA
Marking	CE
IP degree of protection	IP20
Ambient air temperature for operation	-3080 °C
Ambient air temperature for storage	-30100 °C

Packing Units

PCE
1
2.500 cm
9.000 cm
9.500 cm
92.000 g
S02
72
15.000 cm
30.000 cm
40.000 cm
7.019 kg

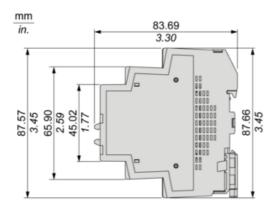
Offer Sustainability

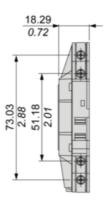
Onor Odolamability	
Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	☑ China RoHS Declaration
RoHS exemption information	₽¥Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information

Product data sheet Dimensions Drawings

SSM1A112BDR

Dimensions

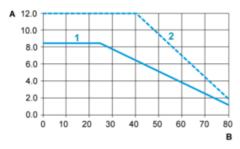




Product data sheet Performance Curves

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Derating Curves



A : Load Current (Amperes)

B : Ambient Temperature (°C)

1 : Multiple units, no minimum spacing between components

 ${\bf 2}$: Installed single unit, distance to adjacent components more than 18 mm