Product data sheet

Specifications

Harmony, Solid state relay pre assembled, 2 A, random switching, spring sockets, input 4…12 V DC, output 24...250 V AC

SSL1A12JDRPR

Main

Range of product	Harmony Solid State Relays
Product or component type	Solid state relay up to 10 A
Device short name	SSL
Network number of phases	1 phase
Output switching mode	Random voltage switching

Complementary

Mounting support	Spring socket
[In] rated current	2 A
CLAMPING FORCE	10...40 N.m
Connections - terminals	Flexible cable with cable end,clamping capacity: 0.2...1.5 mm² (AWG 24...AWG 16) Solid cable with cable end,clamping capacity: 0.2...1.5 mm² (AWG 24...AWG 16)
Capacitance unbalance	1.5 pF input/output
Minimum switching voltage	4 V DC turn-on
Maximum switching voltage	1 V DC turn-off
Input impedance	333 kOhm
Solid state output type	Random voltage switching SCR output
Load current	0.07…2 A
Tansient Overvoltage	600 V AC
Surge current	120 A for 16.6 ms 115 A for 20 ms
Maximum voltage drop	<1.1 V on-state
Maximum I²t for fusing	285 A².s for 10 ms at 50 Hz 260 A².s for 8.3 ms at 60 Hz
Maximum leakage current	4 mA off-state
DV/Dt	500 V/µs off-state at maximum voltage
Response time	5 ms (turn-on) 10 ms (turn-off)
Overvoltage category	III
Width	6.2 mm
Height	104.6 mm

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

Depth	79.5 mm
Net weight	0.0285 kg

Environment

Flame retardance	V0 conforming to UL 94
Dielectric strength	2500 V for input/output
Pollution degree	2
Standards	IEC 60950-1 IEC 61000 IEC 62314 IEC 61984 EN 61984
Product certifications	UL CSA CE UL 508 CSA22.2 No. 14-10 GOST
Marking	CURus CSA CE EAC
IP degree of protection	IP20
Ambient air temperature for operation	-20…70 °C
Ambient air temperature for storage	-20…85 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	27 g
Package 1 Height	0.6 cm
Package 1 width	8 cm
Package 1 Length	10.5 cm
Unit Type of Package 2	BB1
Number of Units in Package 2	30
Package 2 Weight	908 g
Package 2 Height	9.3 cm
Package 2 width	11 cm
Package 2 Length	20 cm
Unit Type of Package 3	S03
Number of Units in Package 3	60
Package 3 Weight	2.762 kg
Package 3 Height	30 cm
Package 3 width	30 cm
Package 3 Length	40 cm

Offer Sustainability

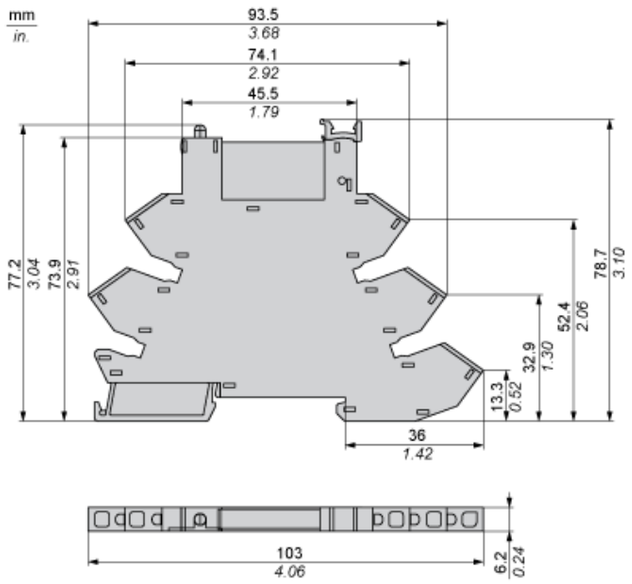
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration

REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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

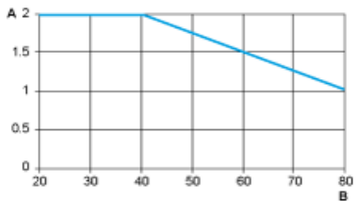
Contractual warranty

Warranty	18 Months

Dimensions


mm
in.
93.5
3.68
74.1
2.92
45.5
1.79
77.2
3.04
73.9
2.91
78.7
3.10
52.4
2.06
32.9
1.30
13.3
0.52
36
1.42
103
4.06
6.2
0.24

Derating Curves



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