

Product data sheet

Characteristics

SSL1A12JDPV

pre assembled relay, Harmony Solid State Relays, 2A, zero voltage switching, screw sockets, input 4 to 12V DC, output 24 to 250V AC



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	Zero voltage switching

Complementary

Mounting support	Screw socket
[In] rated current	2 A
CLAMPING FORCE	< 0.5 N.m 4.4 lb-in
Connections - terminals	Flexible cable with cable end,clamping capacity: 0.2...2.5 mm ² (AWG 24...AWG 14) Solid cable with cable end,clamping capacity: 0.2...2.5 mm ² (AWG 24...AWG 14)
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	Zero 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 I ² t for fusing	285 A ² .s for 10 ms at 50 Hz 260 A ² .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	0.5 cycle (turn-on) 0.5 cycle (turn-off)
Overvoltage category	III
Width	6.2 mm
Height	96.5 mm
Depth	79.5 mm
Net weight	0.0285 kg

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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[RETURN]CSA[RETURN]CE[RETURN]UL 508[RETURN]CSA22.2 No. 14-10[RETURN]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 Height	8.13 cm
Package 1 Width	0.76 cm
Package 1 Length	9.91 cm
Package 1 Weight	0.03 kg
Unit Type of Package 2	BB1
Number of Units in Package 2	30
Package 2 Height	9 cm
Package 2 Width	10 cm
Package 2 Length	20 cm
Package 2 Weight	890 g
Unit Type of Package 3	S03
Number of Units in Package 3	60
Package 3 Height	30 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	2.704 kg

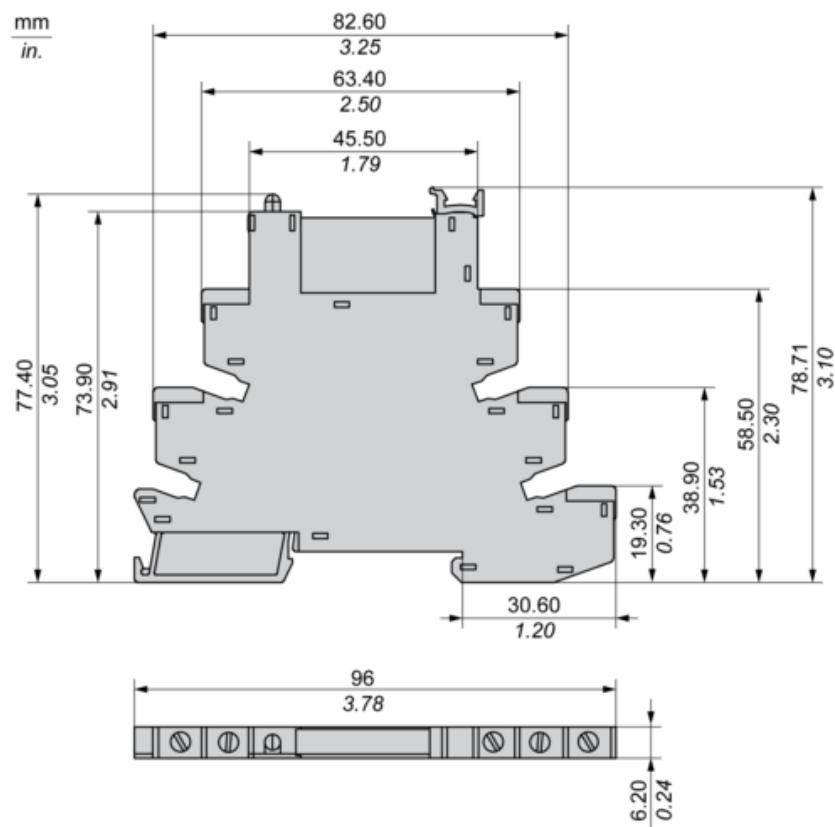
Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<input checked="" type="checkbox"/> REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	<input checked="" type="checkbox"/> China RoHS Declaration
RoHS exemption information	<input checked="" type="checkbox"/> Yes
Environmental Disclosure	<input checked="" type="checkbox"/> Product Environmental Profile
Circularity Profile	<input checked="" type="checkbox"/> 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

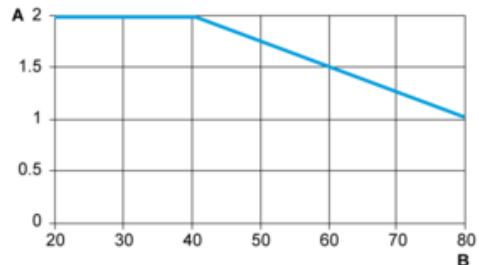
Contractual warranty

Warranty	18 Months
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Dimensions



Derating Curves



A : Load Current (Amperes)

B : Ambient Temperature (°C)