

# 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 <sup>2</sup> (AWG 24...AWG 14) Solid cable with cable end,clamping capacity: 0.2...2.5 mm <sup>2</sup> (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 <sup>2</sup> t for fusing	285 A <sup>2</sup> .S for 10 ms at 50 Hz 260 A <sup>2</sup> .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






## 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

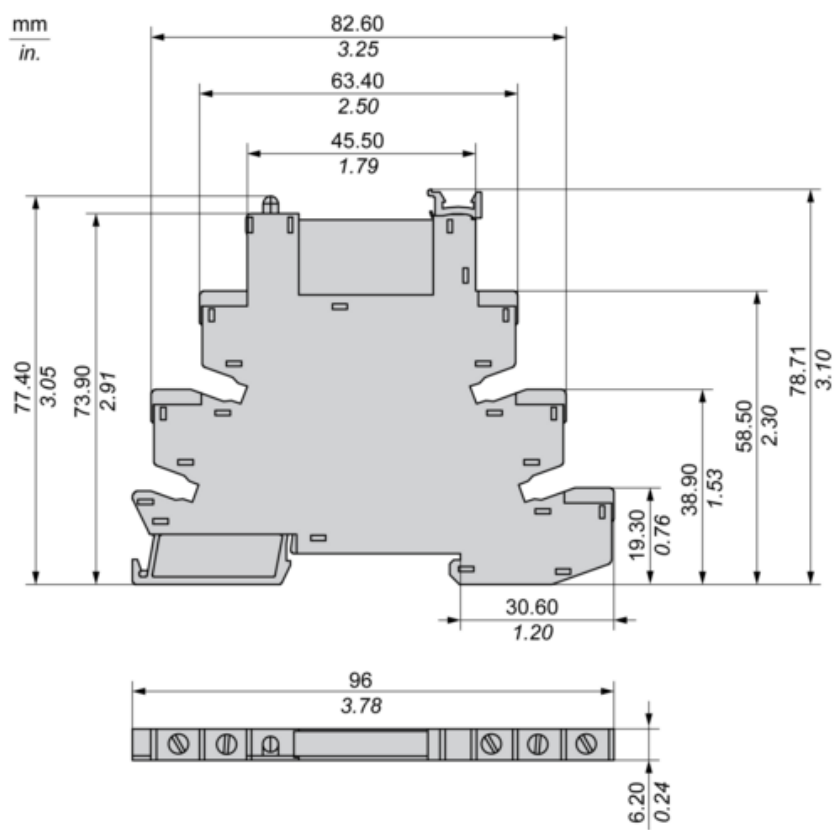
## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 <a href="#">Yes</a>
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	 <a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

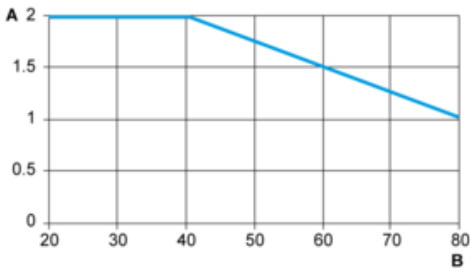
## Contractual warranty

Warranty	18 Months
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Dimensions



Derating Curves



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