

# Product data sheet

Specifications



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

SSL1A12JDPR

## 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	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 mm <sup>2</sup> (AWG 24...AWG 16) Solid cable with cable end, clamping capacity: 0.2...1.5 mm <sup>2</sup> (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	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	104.6 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 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	9.7 cm
Unit Type of Package 2	BB1
Number of Units in Package 2	30
Package 2 Weight	910 g
Package 2 Height	9 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	2.727 kg
Package 3 Height	30 cm
Package 3 width	30 cm
Package 3 Length	40 cm

## Offer Sustainability

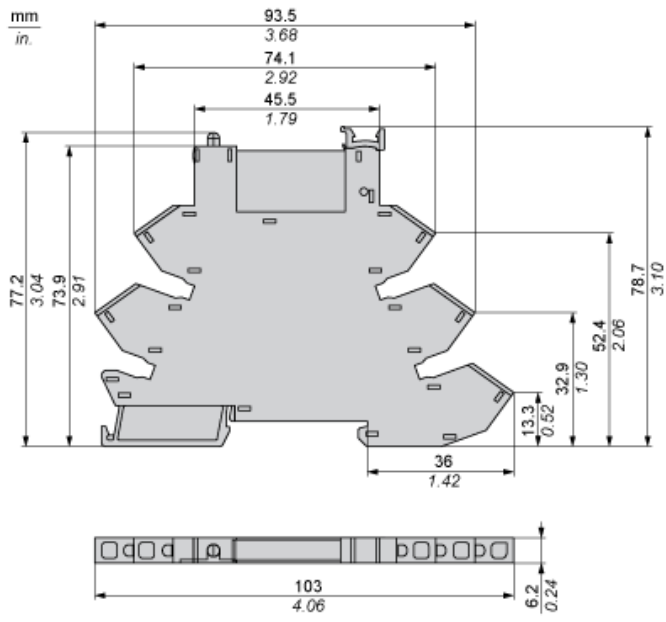
Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>

<b>REACH free of SVHC</b>	Yes
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>WEEE</b>	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
<b>California proposition 65</b>	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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## Contractual warranty

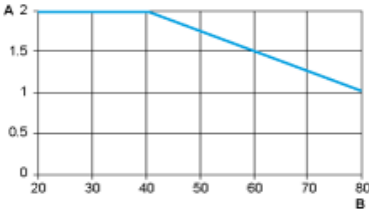
<b>Warranty</b>	18 Months
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## Dimensions



**Derating Curves**

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