

# SSL1A12BDPR

Harmony, Solid state relay pre assembled, 2 A, zero voltage switching, spring sockets, input 16...30 V DC, output 24...250 V AC



## Main

Range of Product	Harmony Solid State Relays
Product or Component Type	Solid state relay up to 10 A
Device short name	SSL
Phase	1 phase
Output switching mode	Zero voltage switching

## Complementary

Mounting Support	Spring socket
Line Rated Current	2 A
[Uc] control circuit voltage	16...30 V DC
CLAMPING FORCE	10...40 N.m
Connections - terminals	Flexible cable with cable end, 0.2...1.5 mm <sup>2</sup> AWG 24...AWG 16) Solid cable with cable end, 0.2...1.5 mm <sup>2</sup> AWG 24...AWG 16)
Capacitance unbalance	1.5 pF input/output
Minimum switching voltage	16 V DC turn-on
Maximum switching voltage	5 V DC turn-off
Input impedance	3.43 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 16.6 ms 115 A 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	0.24 in (6.2 mm)
Height	4.12 in (104.6 mm)
Depth	3.13 in (79.5 mm)
Net Weight	0.06 lb(US) (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 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	-4...158 °F (-20...70 °C)
Ambient Air Temperature for Storage	-4...185 °F (-20...85 °C)

## Ordering and shipping details

Category	21127-ZELIO ICE CUBE RELAYS
Discount Schedule	CP2
GTIN	3606489563073
Nbr. of units in pkg.	1
Package weight(Lbs)	1.16 oz (33.0 g)
Returnability	No

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	3.95 in (10.04 cm)
Package 1 width	0.25 in (0.625 cm)
Package 1 Length	3.11 in (7.9 cm)
Unit Type of Package 2	BB1
Number of Units in Package 2	30
Package 2 Weight	2.34 lb(US) (1.061 kg)
Package 2 Height	3.86 in (9.8 cm)
Package 2 width	9.84 in (25 cm)
Package 2 Length	11.65 in (29.6 cm)
Unit Type of Package 3	S03
Number of Units in Package 3	60
Package 3 Weight	6.09 lb(US) (2.762 kg)
Package 3 Height	11.81 in (30 cm)
Package 3 width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)

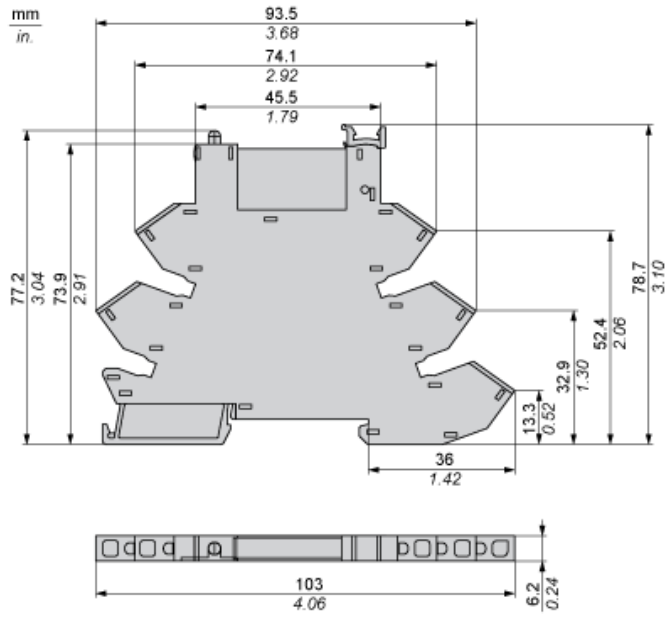
## Offer Sustainability

Sustainable offer status	Green Premium product
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
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) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</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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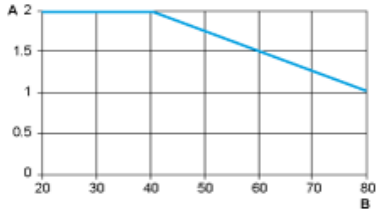
Dimensions



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Derating Curves

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