# Product data sheet Characteristics

## SSL1A12BDRPR

Harmony, Solid state relay pre assembled, 2 A, random 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	Random voltage switching

Complementary

Complementary		
Mounting Support	Spring socket	
Line Rated Current	2 A	
[Uc] control circuit voltage	1630 V DC	
CLAMPING FORCE	1040 N.m	
Connections - terminals	Flexible cable with cable end, 0.21.5 mm² AWG 24AWG 16) Solid cable with cable end, 0.21.5 mm² AWG 24AWG 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	SCR output Random voltage switching	
Load current	0.072 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	5 ms (turn-on) 10 ms (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)	

#### 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	-4158 °F (-2070 °C)
Ambient Air Temperature for Storage	-4185 °F (-2085 °C)

## Ordering and shipping details

Category	21127-ZELIO ICE CUBE RELAYS
Discount Schedule	CP2
GTIN	3606489563080
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)	

### Offer Sustainability

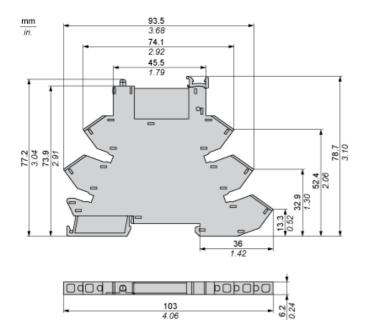
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EVEU RoHS
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.

#### Contractual warranty

Warranty	18 Months

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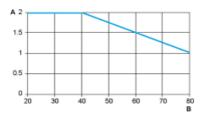
#### **Dimensions**



# Product data sheet Performance Curves

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#### **Derating Curves**



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