

# Product data sheet

Specifications



pre assembled relay, Harmony  
Solid State Relays, 2A, random  
switching, spring sockets, input 16  
to 30V DC, output 24 to 250V AC

SSL1A12BDRPR

Product availability: Stock - Normally stocked in distribution facility

**Price\*: 47.67 USD**

## 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

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	SCR output Random voltage switching
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	5 ms (turn-on) 10 ms (turn-off)
Overvoltage Category	III
Width	0.24 in (6.2 mm)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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	-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	3606489563080
Returnability	No
Country Of Origin	ID

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
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)
Package 1 Weight	1.16 oz (33.0 g)

## Contractual warranty

Warranty	18 Months
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Reach Free Of Svhc

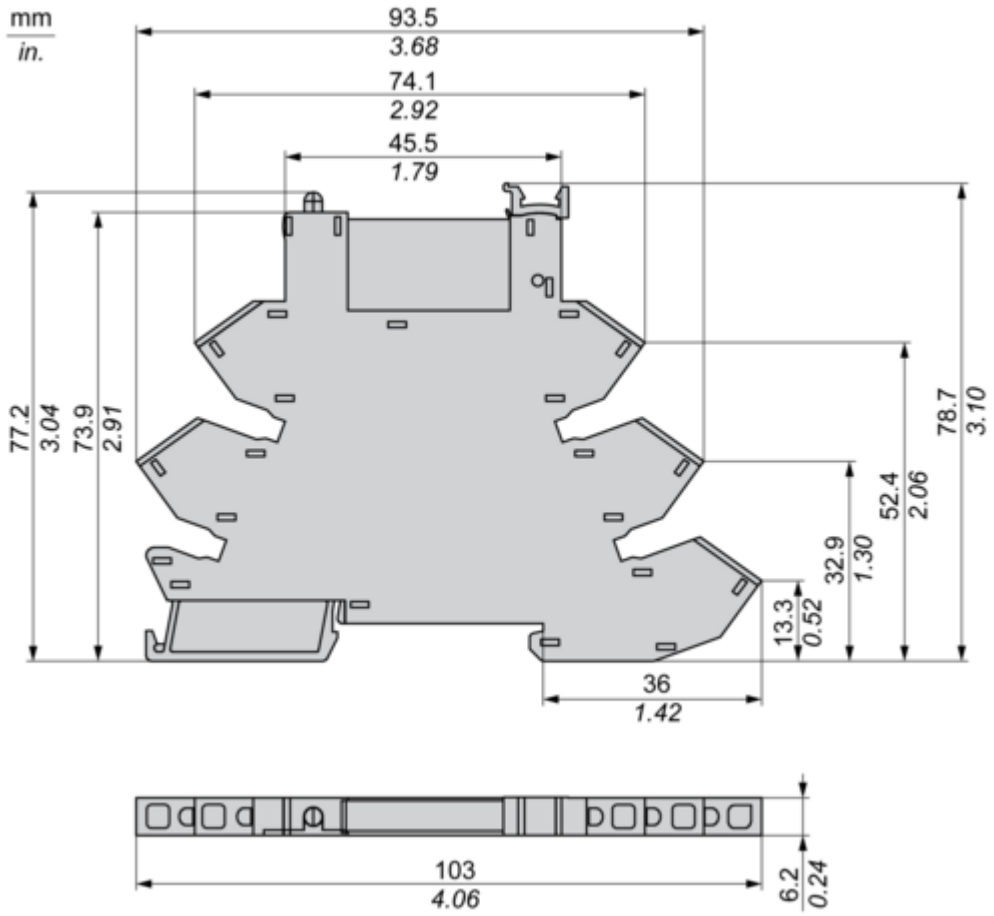
Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	<a href="#">End of Life Information</a>
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>

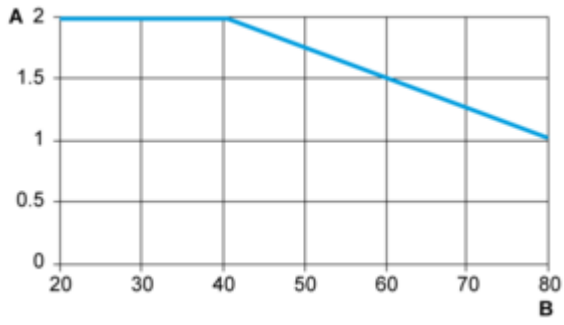
Dimensions



Performance Curves

Derating Curves

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A : Load Current (Amperes)

B : Ambient Temperature (°C)