

Product data sheet

Specifications



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

SSL1A12BDRPV

Product availability: Stock - Normally stocked in distribution facility

Price*: 29.70 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	Screw socket
Line Rated Current	2 A
[Uc] Control Circuit Voltage	16...30 V DC
Clamping Force	< 0.5 N.m 4.4 lb-in
Connections - Terminals	Flexible cable with cable end, 0.2...2.5 mm ² AWG 24...AWG 14) Solid cable with cable end, 0.2...2.5 mm ² AWG 24...AWG 14)
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	Random 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 ² T For Fusing	285 A ² .s for 10 ms at 50 Hz 260 A ² .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

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

Width	0.24 in (6.2 mm)
Height	3.80 in (96.5 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	3606489563004
Returnability	No

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	0.20 in (0.500 cm)
Package 1 Width	3.15 in (8.000 cm)
Package 1 Length	3.74 in (9.500 cm)
Package 1 Weight	0.95 oz (27.000 g)
Unit Type Of Package 2	BB1
Number Of Units In Package 2	30
Package 2 Height	3.54 in (9.000 cm)
Package 2 Width	3.94 in (10.000 cm)
Package 2 Length	7.87 in (20.000 cm)
Package 2 Weight	31.22 oz (885.000 g)

Unit Type Of Package 3	S02
Number Of Units In Package 3	90
Package 3 Height	5.91 in (15 cm)
Package 3 Width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)
Package 3 Weight	6.43 lb(US) (2.915 kg)

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-CO₂ 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

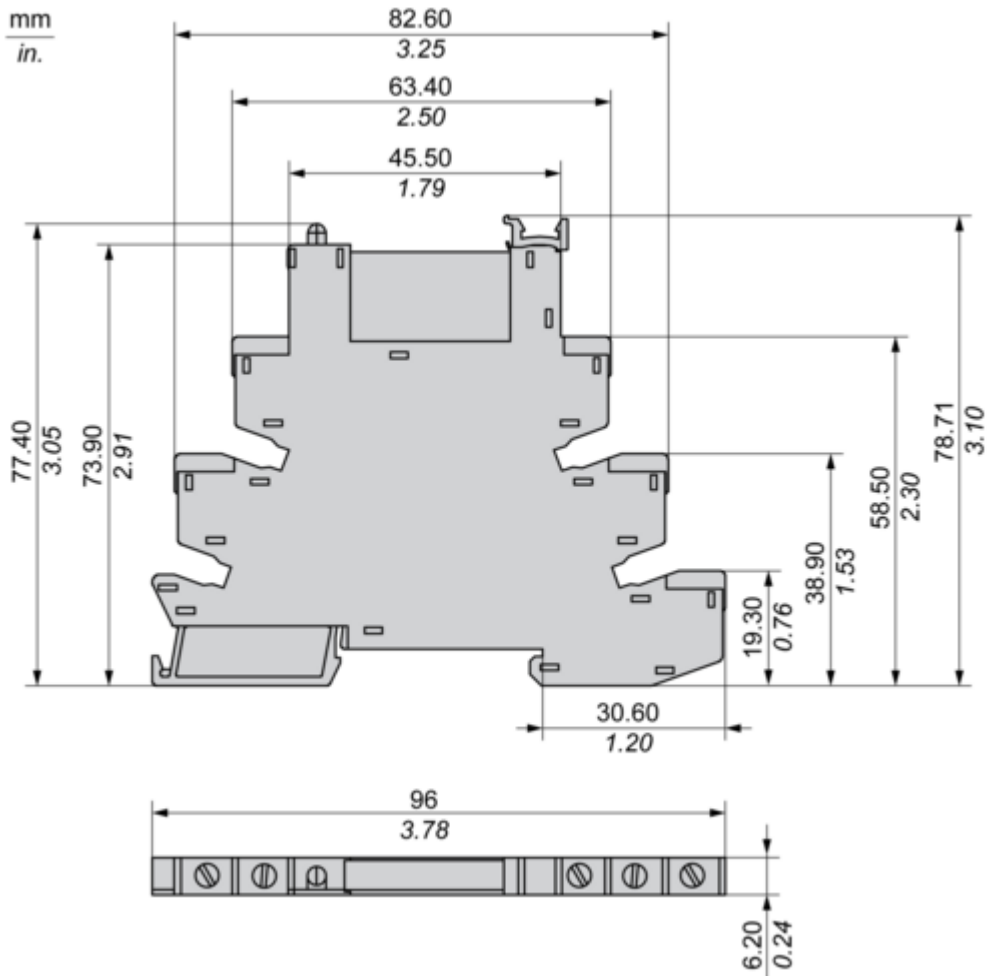
Mercury Free

Rohs Exemption Information Yes

Certifications & Standards

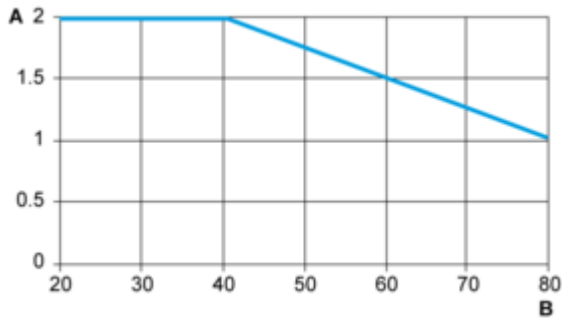
Reach Regulation	REACH Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection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

Dimensions



Performance Curves

Derating Curves



A : Load Current (Amperes)

B : Ambient Temperature (°C)