Product datasheet

Specifications

Green Premium™

solid state relay,Plug-in,input 15-30 V DC, output 24-280 V AC, 2A

SSL1A12BDR

Main

Range of product	Harmony Solid State Relays
Product or component type	Plug-in relay
Device short name	SSL
Network number of phases	1 phase
Output switching mode	Random voltage switching

Complementary

mounting support	Socket
[In] rated current	2 A
Output voltage	24...280 V AC
[Uc] control circuit voltage	15...30 V DC
Capacitance unbalance	1.5 pF input/output
Minimum switching voltage	15 V DC turn-on
Maximum switching voltage	10 V DC turn-off
Input current limits	6 mA
Input impedance	3500 Ohm
solid state output type	SCR output Random voltage switching
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 I²t for fusing	66 A².s for 10 ms at 50 Hz 60 A².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-off) 0.1 ms (turn-on)
Overvoltage category	III
Width	5 mm
Height	28 mm
Depth	15 mm

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

Net weight	0.0041 kg

Environment

Flame retardance	V0 conforming to UL 94
Dielectric strength	2500 V for input/output
Pollution degree	2
Product certifications	UL CSA
marking	CE
Ambient air temperature for operation	-20…80 °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 Height	0.700 cm
Package 1 Width	2.500 cm
Package 1 Length	37.000 cm
Package 1 Weight	4.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	12
Package 2 Height	0.700 cm
Package 2 Width	2.500 cm
Package 2 Length	37.000 cm
Package 2 Weight	61.000 g
Unit Type of Package 3	S01
Number of Units in Package 3	1080
Package 3 Height	15.000 cm
Package 3 Width	15.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	5.872 kg

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Sustainability Green Premium™

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_2 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

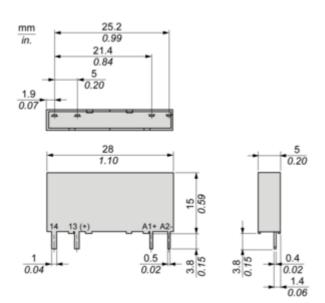✅ Mercury Free

✅ 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

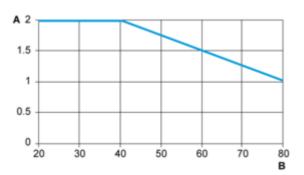**Circularity Profile**   End of Life Information

Dimensions Drawings

Dimensions

Performance Curves

Derating Curves

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