

Product datasheet

Specifications



Harmony. Solid state relay pre assembled. 2 A. random switching. spring sockets. input 4...12 V DC. output 24...250 V AC

SSL1A12JDRPR

! Discontinued

! Discontinued on: 09 Oct 2023

Main

| | |
|---------------------------|------------------------------|
| Range Of Product | Harmony Solid State Relays |
| Product Or Component Type | Solid state relay up to 10 A |
| Device Short Name | SSL |
| Network Number Of Phases | 1 phase |
| Output Switching Mode | Random voltage switching |

Complementary

| | |
|-------------------------------------|---|
| Mounting Support | Spring socket |
| [In] Rated Current | 2 A |
| Clamping Force | 10...40 N.m |
| Connections - Terminals | Flexible cable with cable end, clamping capacity: 0.2...1.5 mm ² (AWG 24...AWG 16) Solid cable with cable end, clamping capacity: 0.2...1.5 mm ² (AWG 24...AWG 16) |
| Capacitance Unbalance | 1.5 pF input/output |
| Minimum Switching Voltage | 4 V DC turn-on |
| Maximum Switching Voltage | 1 V DC turn-off |
| Input Impedance | 333 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 for 16.6 ms 115 A for 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 |
| Width | 6.2 mm |
| Height | 104.6 mm |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

| | |
|------------|-----------|
| Depth | 79.5 mm |
| Net Weight | 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 | -20...70 °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 | 7.87 cm |
| Package 1 Width | 0.76 cm |
| Package 1 Length | 10.16 cm |
| Package 1 Weight | 0.03 kg |
| Unit Type Of Package 2 | BB1 |
| Number Of Units In Package 2 | 30 |
| Package 2 Height | 9.3 cm |
| Package 2 Width | 11 cm |
| Package 2 Length | 20 cm |
| Package 2 Weight | 908 g |
| Unit Type Of Package 3 | S03 |
| Number Of Units In Package 3 | 60 |
| Package 3 Height | 30 cm |
| Package 3 Width | 30 cm |
| Package 3 Length | 40 cm |
| Package 3 Weight | 2.762 kg |

Contractual warranty

Warranty

18 Months

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](#)

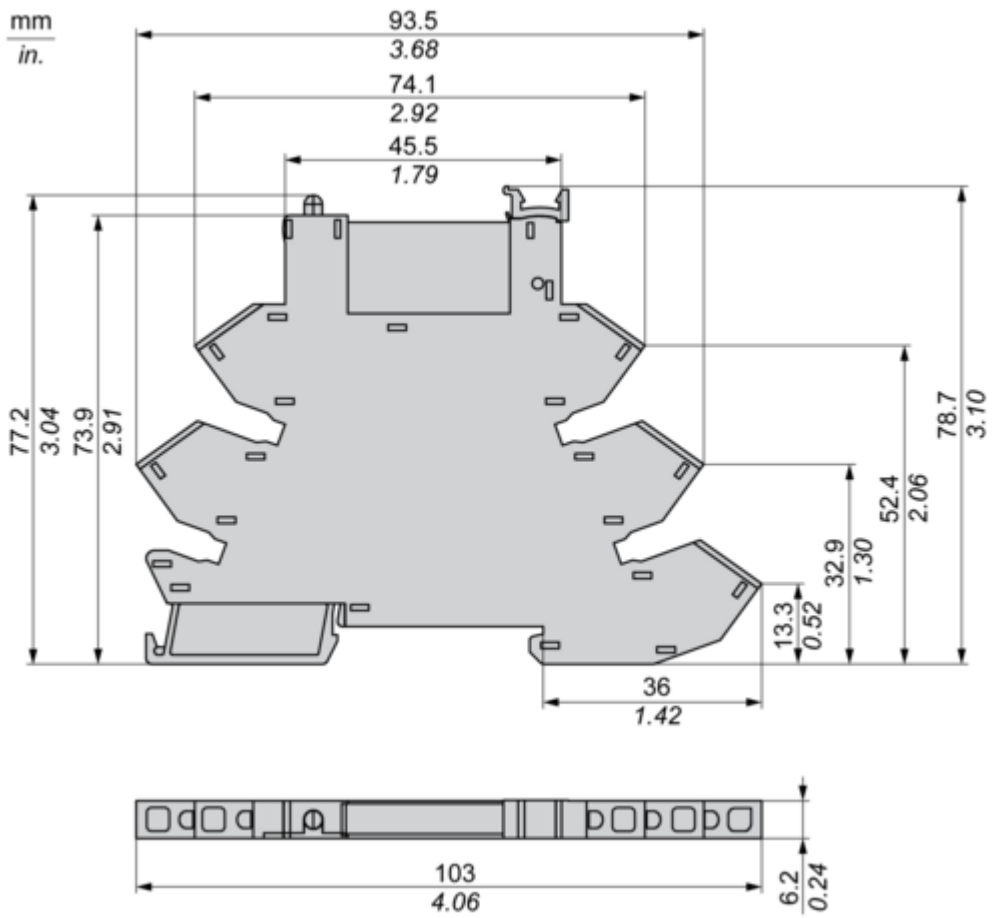
Environmental Disclosure [Product Environmental Profile](#)

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](#)

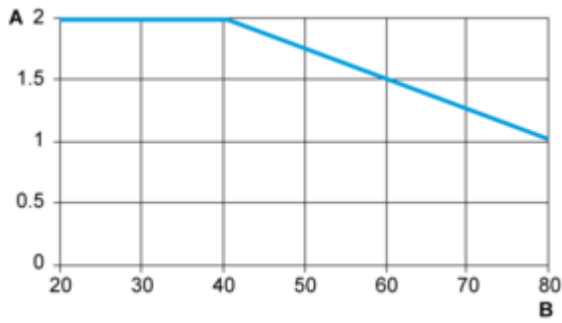
Dimensions Drawings

Dimensions



Performance Curves

Derating Curves



A : Load Current (Amperes)

B : Ambient Temperature (°C)