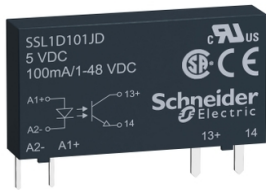


# Product datasheet

Specifications



plug in relay, Harmony Solid State Slim Relays, 0.1A, DC switching, input 16 to 30V DC, output 1 to 48V DC

SSL1D101BD

## 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     | DC switching               |

## Complementary

|                              |   |
|------------------------------|---|
| mounting support             | Socket                                  |
| [In] rated current           | 0.1 A                                   |
| Output voltage               | 1...48 V DC                             |
| [Uc] control circuit voltage | 16...30 V DC                            |
| Capacitance unbalance        | 1.5 pF input/output                     |
| Minimum switching voltage    | 16 V DC turn-on                         |
| Maximum switching voltage    | 9 V DC turn-off                         |
| Input current limits         | 5 mA                                    |
| Input impedance              | 3500 Ohm                                |
| solid state output type      | DC switching<br>Transistor output       |
| load current                 | 0.001...0.1 A                           |
| tansient Overvoltage         | 60 V DC                                 |
| Maximum operating frequency  | 500 Hz                                  |
| Surge current                | 0.3 A for 10 ms                         |
| Maximum voltage drop         | <1 V on-state                           |
| Maximum leakage current      | 0.001 mA off-state                      |
| Response time                | 0.02 ms (turn-on)<br>0.13 ms (turn-off) |
| Overvoltage category         | III                                     |
| Width                        | 5 mm                                    |
| Height                       | 28 mm                                   |
| Depth                        | 15 mm                                   |
| Net weight                   | 0.0041 kg                               |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

# Environment

|                                       |                         |
|---------------------------------------|-------------------------|
| Flame retardance                      | V0 conforming to UL 94  |
| Dielectric strength                   | 3750 V for input/output |
| Pollution degree                      | 2                       |
| Product certifications                | CSA<br>UL               |
| 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             | 62.000 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             | 5.684 kg  |

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

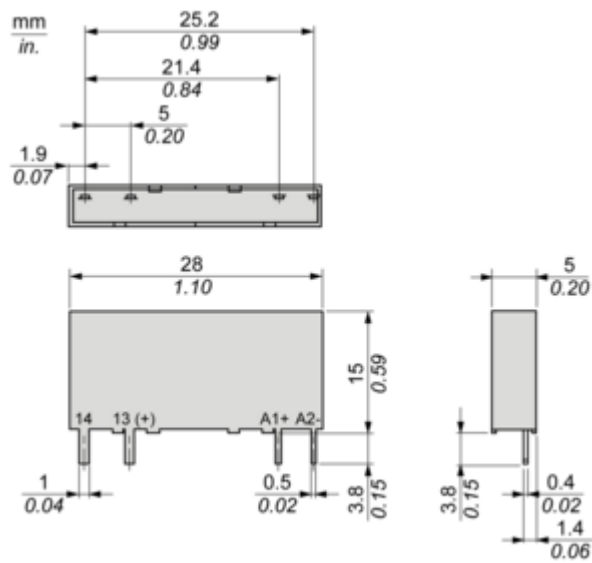
|   |                            |     |
|---|----------------------------|-----|
| ✓ | Reach Free Of Svhc         |     |
| ✓ | Toxic Heavy Metal Free     |     |
| ✓ | Mercury Free               |     |
| ✓ | Rohs Exemption Information | Yes |

Certifications & Standards

|                          |   |
|--------------------------|---|
| Reach Regulation         | <a href="#">REACH Declaration</a>   |
| Eu Rohs Directive        | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a> |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a>  |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile      | <a href="#">End of Life Information</a>   |

Dimensions Drawings

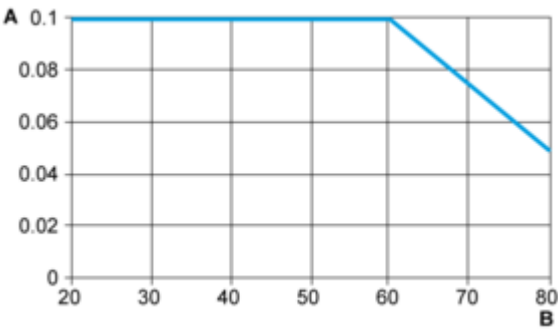
Dimensions



Performance Curves

Derating Curves

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