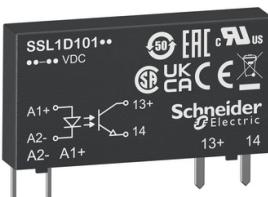


Product data sheet

Specifications



plug in relay, Harmony Solid State
Slim Relays, 3.5A, DC switching,
input 15 to 30V DC, output 1 to 24V
DC

SSL1D03BD

Product availability: Stock - Normally stocked in distribution facility

Main

| | |
|--|--|
| Range of Product | Harmony Solid State Relays |
| Device short name | SSL |
| Phase | 1 phase |
| [Uc] control circuit voltage | 15...30 V |
| Output switching mode | DC switching |
| Ui rated insulation voltage | 30 V |
| Insulation resistance | > 100 MΩ 500 V DC |
| Electromagnetic compatibility | Electrostatic discharge - test level: 4 kV criteria B (contact discharge) conforming to IEC 61000-4-2 Electrostatic discharge - test level: 8 kV criteria B (air discharge) conforming to IEC 61000-4-2 Conducted RF disturbances - test level: 10 V criteria A (0.15...80 MHz) conforming to IEC 61000-4-6 Radiated radio-frequency electromagnetic field immunity test - test level: 10 V/m criteria A (80 MHz to 1 GHz) conforming to IEC 61000-4-3 Radiated radio-frequency electromagnetic field immunity test - test level: 3 V/m criteria A (1.4...6 GHz) conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test - test level: 2 kV criteria B (5 kHz) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 1 kV criteria B (5 kHz) conforming to IEC 61000-4-4 Surge immunity test - test level: 0.5 kV criteria B (line to line) conforming to IEC 61000-4-5 Surge immunity test - test level: 1 kV criteria B (line to earth) conforming to IEC 61000-4-5 Radiated emission - test level: 30...1000 MHz conforming to IEC 60947-1 Conducted emission - test level: 0.15...30 MHz conforming to IEC 60947-1 |
| [Uimp] rated impulse withstand voltage | 3.5 kV for input to case IEC 62314 3.5 kV for input/output circuit UL 508 3.5 kV for input/output circuit IEC 62314 3.5 kV output to case IEC 62314 3.5 kV output to case 3.5 kV for input to case UL 508 3.5 kV output to case UL 508 |

Complementary

| | |
|------------------------------|---------------------|
| Mounting Support | Socket |
| Line Rated Current | 3.5 A |
| Output voltage | 3...30 V DC |
| [Uc] control circuit voltage | 15...30 V DC |
| Capacitance unbalance | 2.5 pF input/output |
| Minimum switching voltage | 15 V DC turn-on |

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

| | |
|-----------------------------|---------------------------------------|
| Maximum switching voltage | 10 V DC turn-off |
| Input Current | 7 mA |
| Input impedance | 3500 Ohm |
| Solid state output type | Mosfet output DC switching |
| Load current | 0.001...3.5 A |
| Transient Overvoltage | 35 V |
| Maximum operating frequency | 500 Hz |
| Surge current | 9 A 10 ms |
| Maximum voltage drop | <0.5 V on-state |
| Maximum leakage current | 0.001 mA off-state |
| Response time | 0.2 ms (turn-on) 0.1 ms (turn-off) |
| Overvoltage category | III |
| Width | 0.2 in (5 mm) |
| Height | 1.1 in (28 mm) |
| Depth | 0.6 in (15 mm) |
| Product Weight | 0.0090 lb(US) (0.0041 kg) |
| Device presentation | Complete product |

Environment

| | |
|---------------------------------------|--|
| Flame retardance | V0 conforming to UL 94 |
| Dielectric strength | 2500 V for input/output |
| Pollution degree | 2 |
| Standards | IEC/EN 60947-1 IEC/EN 62314 UL 508 C22.2 No. 14 |
| Product Certifications | cURus CSA EAC CE UKCA |
| Marking | CE |
| IP degree of protection | IP00 |
| Ambient Air Temperature for Operation | -4...176 °F (-20...80 °C) |
| Ambient Air Temperature for Storage | -4...185 °F (-20...85 °C) |

Ordering and shipping details

| | |
|-------------------|---------------|
| Category | US10CP222375 |
| Discount Schedule | 0CP2 |
| GTIN | 3606480579653 |
| Returnability | Yes |
| Country of origin | CN |

Packing Units

| | |
|-------------------------------------|---------------------------|
| Unit Type of Package 1 | PCE |
| Nbr. of units in pkg. | 1 |
| Package 1 Height | 0.59 in (1.5 cm) |
| Package 1 Width | 0.20 in (0.5 cm) |
| Package 1 Length | 1.10 in (2.8 cm) |
| Package weight(Lbs) | 0.13 oz (3.67 g) |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 10 |
| Package 2 Height | 1.22 in (3.1 cm) |
| Package 2 Width | 1.89 in (4.8 cm) |
| Package 2 Length | 4.88 in (12.4 cm) |
| Package 2 Weight | 1.9 oz (55 g) |
| Unit Type of Package 3 | S01 |
| Number of Units in Package 3 | 280 |
| Package 3 Height | 5.91 in (15 cm) |
| Package 3 Width | 5.91 in (15 cm) |
| Package 3 Length | 15.75 in (40 cm) |
| Package 3 Weight | 3.9106 lb(US) (1.7738 kg) |



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle) **17**

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard **Yes**

Packaging without single use plastic **No**

[EU RoHS Directive](#) **Pro-active compliance (Product out of EU RoHS legal scope)**

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](#)**

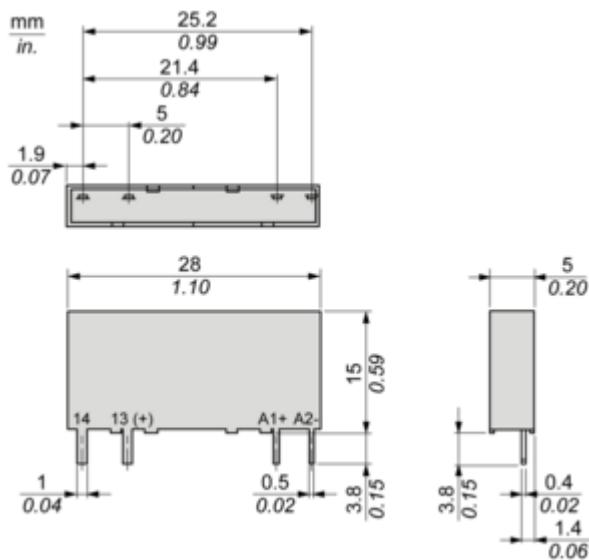
Use Again

Repack and remanufacture

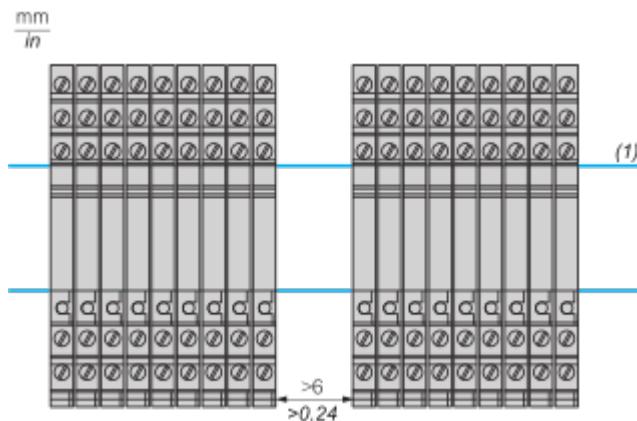
Take-back **No**

Dimensions Drawings

Dimensions

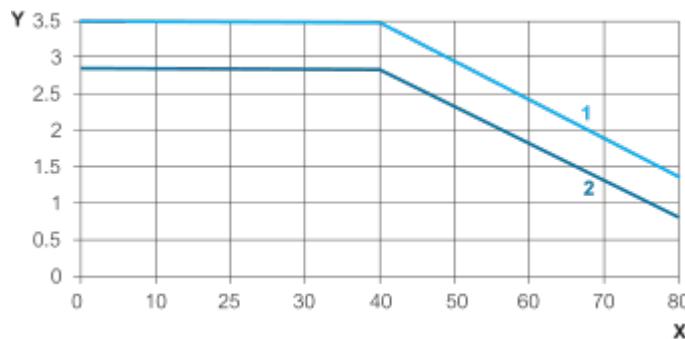


Mounting and Clearance

Mounting

(1) : DIN Rail Mount

Performance Curves

Derating Curves

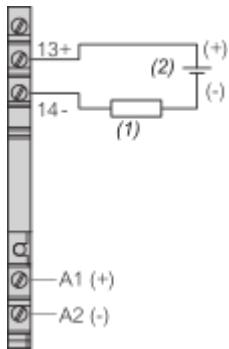
X : Ambient Temperature (°C)

Y : Load Current (Amperes)

1 : Installed single unit, distance to adjacent components more than 6.2 mm

2 : Multiple units, no minimum spacing between components

Connections and Schema

Wiring

(1) Load

(2) DC Source

Technical Illustration

Dimensions

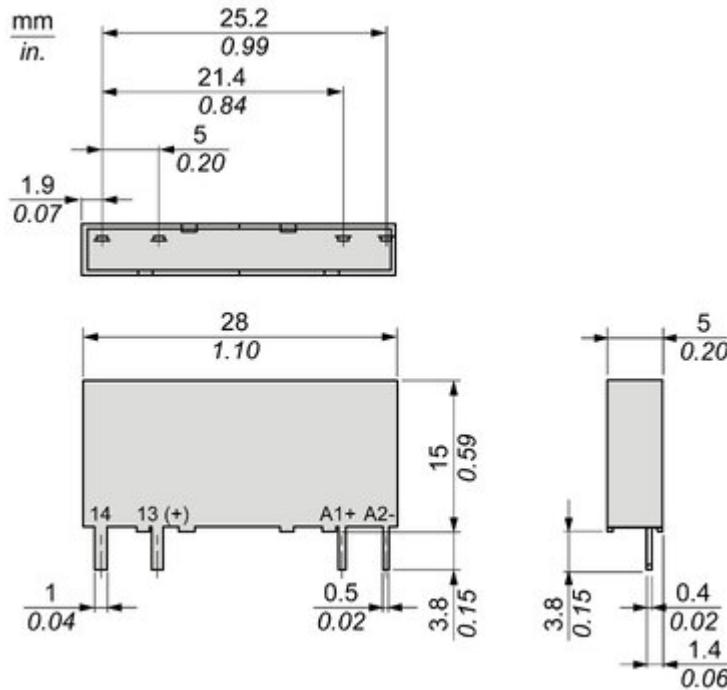
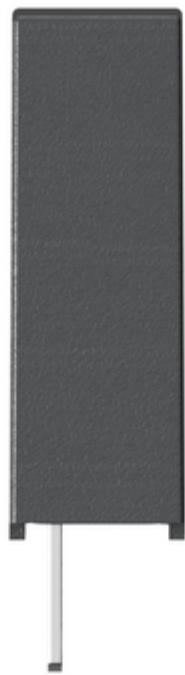


Image of product / Alternate images

Alternative





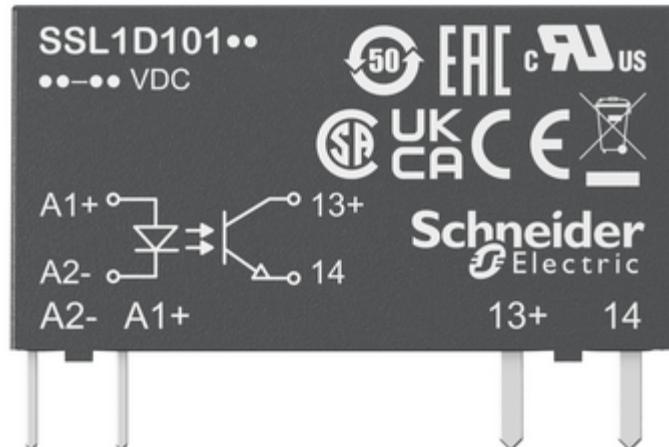


Image of product in real life situation

