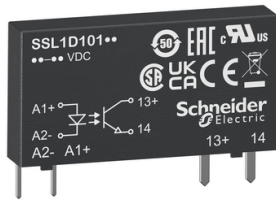


Product datasheet

Specifications



Solid state relay, 3.5 A, DC switching, input 15...30 V DC, output 1...24 V DC

Local distributor code:

403013652

SSL1D03BD

EAN Code: 3606480579653

Main

Range of product	Harmony Solid State Relays
Device short name	SSL
Network number of phases	1 phase
[Uc] control circuit voltage	15...30 V
Output switching mode	DC switching
Ui rated insulation voltage	30 V
Insulation resistance	> 100 MOhm at 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 conforming to IEC 62314 3.5 kV for input/output circuit conforming to UL 508 3.5 kV for input/output circuit conforming to IEC 62314 3.5 kV output to case conforming to IEC 62314 3.5 kV output to case 3.5 kV for input to case conforming to UL 508 3.5 kV output to case conforming to UL 508

Complementary

Mounting support	Socket
[In] 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
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 for 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	5 mm
Height	28 mm
Depth	15 mm
Net weight	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	-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	1.5 cm
Package 1 Width	0.5 cm
Package 1 Length	2.8 cm
Package 1 Weight	3.67 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10

Package 2 Height	3.1 cm
Package 2 Width	4.8 cm
Package 2 Length	12.4 cm
Package 2 Weight	55 g
Unit Type of Package 3	S01
Number of Units in Package 3	280
Package 3 Height	15 cm
Package 3 Width	15 cm
Package 3 Length	40 cm
Package 3 Weight	1.7738 kg

Contractual warranty

Warranty	18 months
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Environmental Data

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

Total lifecycle Carbon footprint 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)

REACH Regulation [REACH Declaration](#)

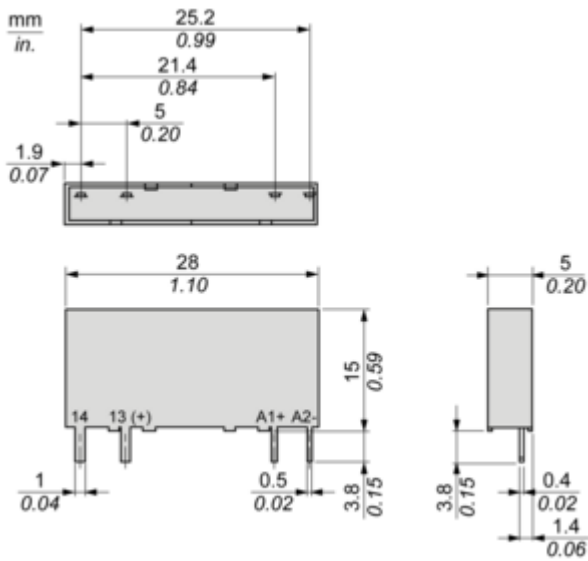
Use Again

Repack and remanufacture

Take-back No

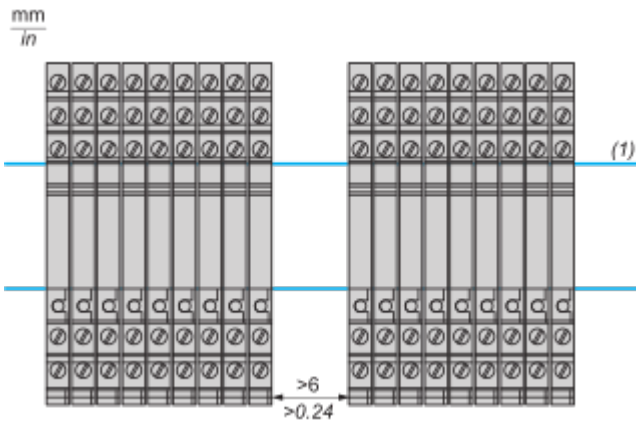
Dimensions Drawings

Dimensions



Mounting and Clearance

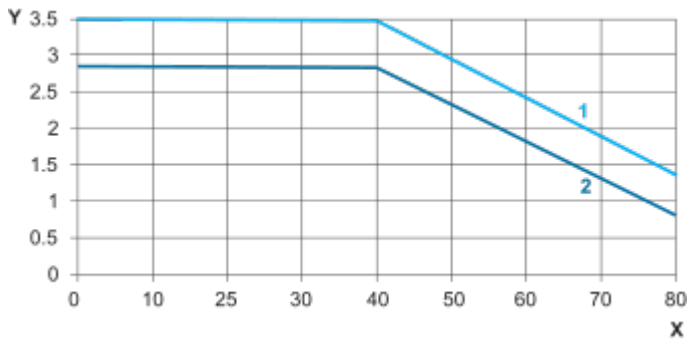
Mounting



(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

Technical Illustration

Dimensions

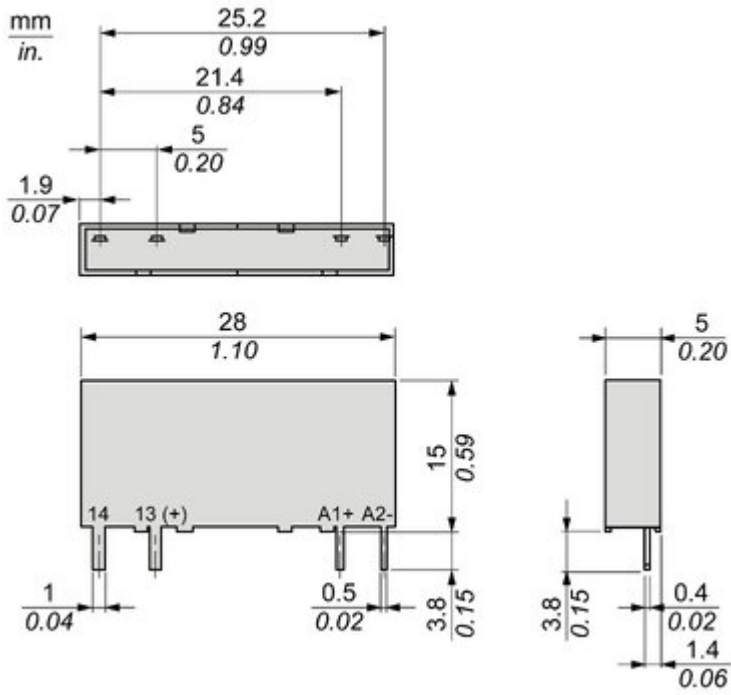


Image of product / Alternate images

Alternative





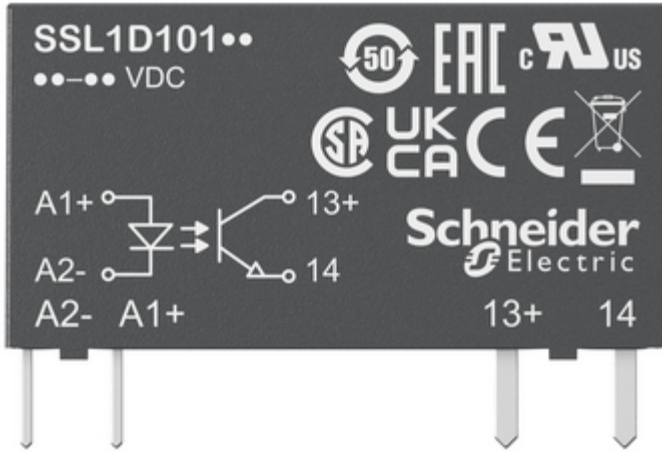


Image of product in real life situation

