

# Product data sheet

Specifications



Solid state relay pre assembled,  
Harmony, 3.5A, DC switching,  
spring sockets, input 16...30V DC,  
output 1...24V DC \_

SSL1D03BDPR

**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	16...30 V
Connections - Terminals	Spring terminals
Output switching mode	DC switching

## Complementary

Mounting Support	Spring socket
Line Rated Current	3.5 A
Output voltage	1...24 V DC
[Uc] control circuit voltage	16...30 V DC
CLAMPING FORCE	10...40 N.m
Connections - terminals	Flexible cable with cable end, 0.2...1.5 mm <sup>2</sup> AWG 24...AWG 16) Solid cable with cable end, 0.2...1.5 mm <sup>2</sup> AWG 24...AWG 16)
Capacitance unbalance	1.5 pF input/output
Minimum switching voltage	16 V DC turn-on
Maximum switching voltage	5 V DC turn-off
Input impedance	2.67 kOhm
Solid state output type	Mosfet output DC switching
Load current	0.001...3.5 A
Transient Overvoltage	30 V DC
Surge current	9 A 10 ms
Maximum voltage drop	<0.5 V on-state
Maximum leakage current	0.001 mA off-state
Response time	0.25 ms (turn-on) 0.12 ms (turn-off)
Overvoltage category	III
Width	0.2 in (6.2 mm)
Height	4.1 in (104.6 mm)
Depth	3.1 in (79.5 mm)

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

<b>Net Weight</b>	0.0628 lb(US) (0.0285 kg)
<b>Device presentation</b>	Complete product

## Environment

<b>Flame retardance</b>	V0 conforming to UL 94
<b>Dielectric strength</b>	2500 V for input/output
<b>Pollution degree</b>	2
<b>Standards</b>	IEC 60950-1 IEC 61000 IEC 62314 IEC 61984 EN 61984
<b>Product Certifications</b>	UL CSA CE UL 508 CSA22.2 No. 14-10 GOST
<b>Marking</b>	CURus CSA CE EAC
<b>IP degree of protection</b>	IP20
<b>Ambient Air Temperature for Operation</b>	-4...158 °F (-20...70 °C)
<b>Ambient Air Temperature for Storage</b>	-4...185 °F (-20...85 °C)

## Ordering and shipping details

<b>Category</b>	US10CP221127
<b>Discount Schedule</b>	0CP2
<b>GTIN</b>	3606489563059
<b>Returnability</b>	Yes
<b>Country of origin</b>	ID

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	0.276 in (0.700 cm)
<b>Package 1 Width</b>	3.150 in (8.000 cm)
<b>Package 1 Length</b>	4.134 in (10.500 cm)
<b>Package weight(Lbs)</b>	0.952 oz (27.000 g)
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	30
<b>Package 2 Height</b>	3.622 in (9.200 cm)
<b>Package 2 Width</b>	4.331 in (11.000 cm)
<b>Package 2 Length</b>	7.874 in (20.000 cm)
<b>Package 2 Weight</b>	31.464 oz (892.000 g)
<b>Unit Type of Package 3</b>	S03

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<b>Number of Units in Package 3</b>	270
<b>Package 3 Height</b>	11.811 in (30.000 cm)
<b>Package 3 Width</b>	11.811 in (30.000 cm)
<b>Package 3 Length</b>	15.748 in (40.000 cm)
<b>Package 3 Weight</b>	19.246 lb(US) (8.730 kg)

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## **Contractual warranty**

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<b>Warranty</b>	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

Carbon footprint (kg CO2 eq, Total Life cycle)	18
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## Use Better

### Materials and Substances

Packaging made with recycled cardboard	Yes
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Packaging without single use plastic	Yes
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[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](http://www.P65Warnings.ca.gov)

## Use Again

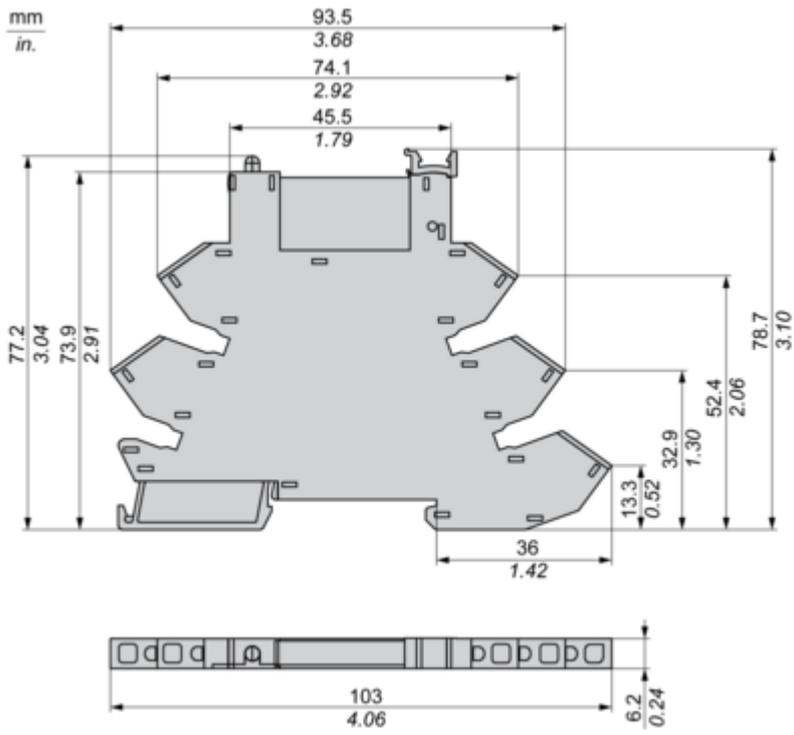
### Repack and remanufacture

Take-back	No
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Dimensions Drawings

Dimensions

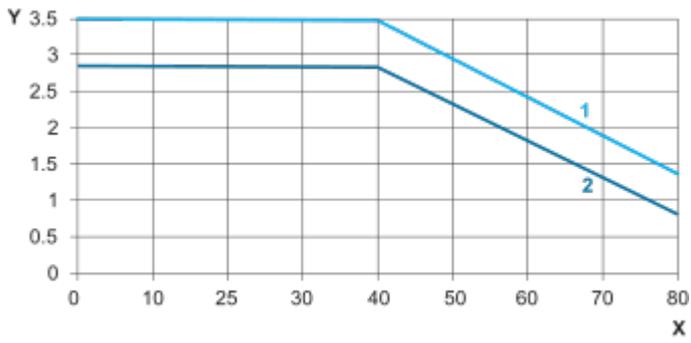
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Performance Curves

Derating Curves

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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

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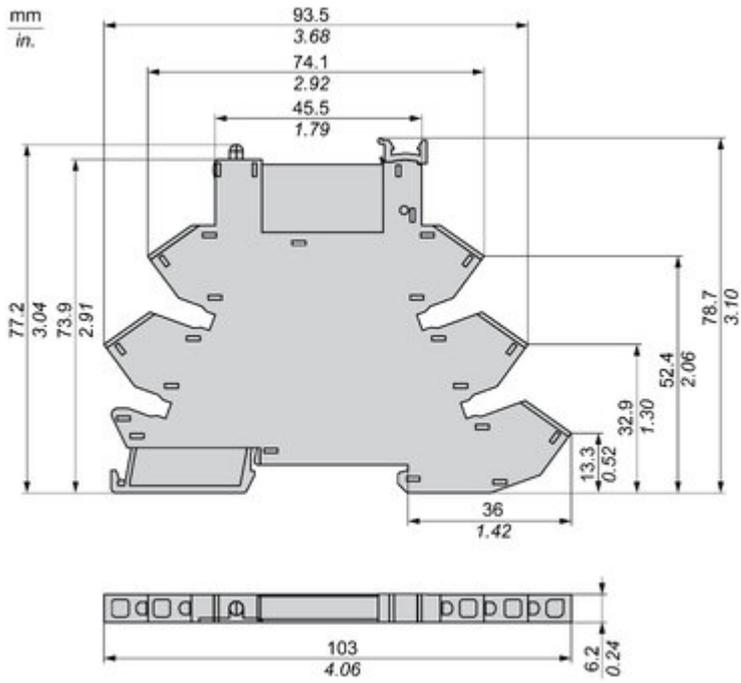
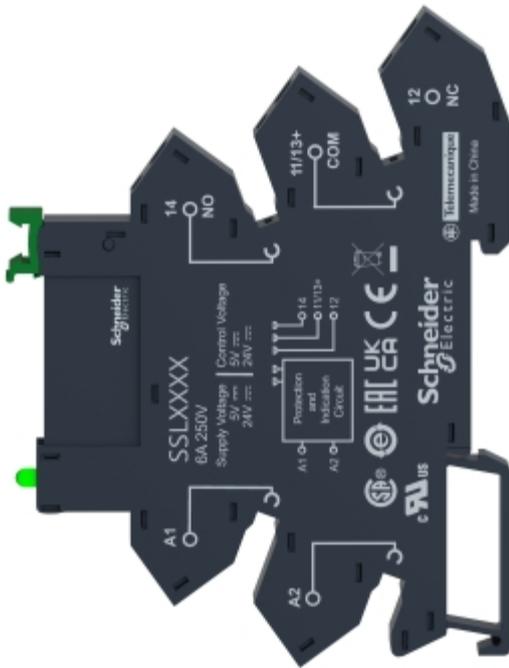
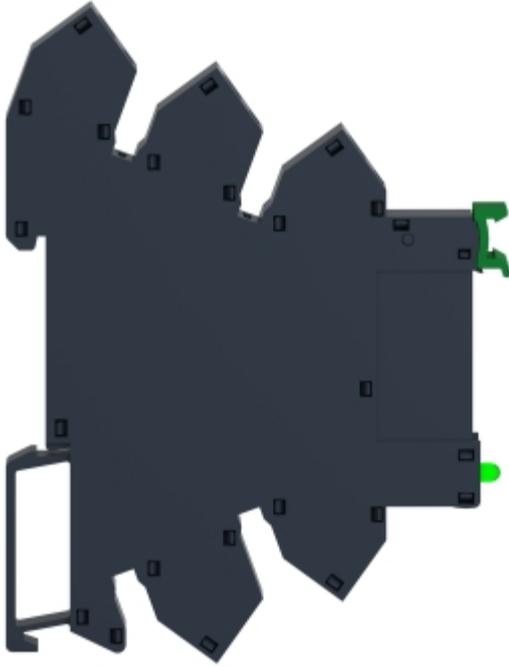


Image of product / Alternate images

Alternative

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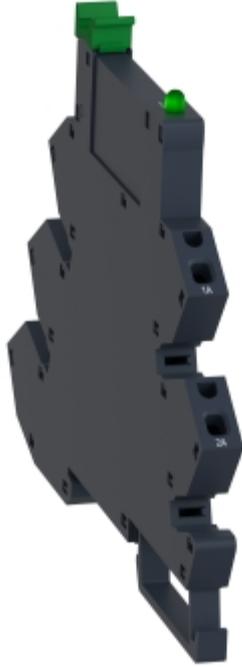


Image of product in real life situation

