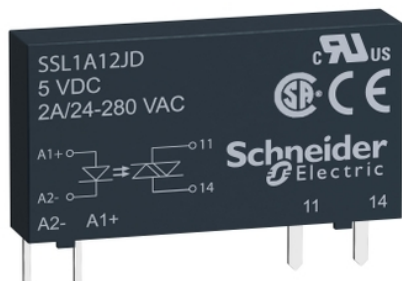


# SSL1A12ND

Solid state relay, 2 A, zero voltage switching,  
input 38...72 V DC, output 24...280 V AC



## Main

|                           |                   |
|---------------------------|-------------------|
| Range of product          | Harmony Relay     |
| Product or component type | Solid state relay |
| Device short name         | SSL               |
| Phase                     | 1 phase           |

## Complementary

|                                     |                                                                                       |
|-------------------------------------|---------------------------------------------------------------------------------------|
| Mounting support                    | Socket                                                                                |
| Line Rated Current                  | 2 A                                                                                   |
| Output voltage                      | 24...280 V AC                                                                         |
| [Uc] control circuit voltage        | 38...72 V DC                                                                          |
| Contacts type and configuration     | 1 NO                                                                                  |
| Capacitance unbalance               | 1.5 pF input/output                                                                   |
| Minimum switching voltage           | 38 V DC turn-on                                                                       |
| Maximum switching voltage           | 28 V DC turn-off                                                                      |
| Input current limits                | 4 mA                                                                                  |
| Input impedance                     | 20 kOhm                                                                               |
| Solid state output type             | Zero voltage switching<br>SCR output                                                  |
| Load current                        | 0.07...2 A                                                                            |
| Tansient Overvoltage                | 600 V AC                                                                              |
| Surge current                       | 120 A 16.6 ms<br>115 A 20 ms                                                          |
| Maximum voltage drop                | <1.1 V on-state                                                                       |
| Maximum I <sup>2</sup> t for fusing | 285 A <sup>2</sup> .S for 10 ms at 50 Hz<br>260 A <sup>2</sup> .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                       | 0.5 cycle (turn-on)<br>0.5 cycle (turn-off)                                           |
| Overvoltage category                | III                                                                                   |
| Width                               | 0.20 in (5 mm)                                                                        |
| Height                              | 1.10 in (28 mm)                                                                       |
| Depth                               | 0.59 in (15 mm)                                                                       |
| Net weight                          | 0.01 lb(US) (0.0041 kg)                                                               |

## Environment

|                                       |                           |
|---------------------------------------|---------------------------|
| Flame retardance                      | V0 conforming to UL 94    |
| Dielectric strength                   | 2500 V for input/output   |
| Pollution degree                      | 2                         |
| Product certifications                | CSA<br>UL                 |
| Marking                               | CE                        |
| 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              | 22375 - INTERFACE MODULE(ABA,R,S) |
| Discount Schedule     | CP2                               |
| GTIN                  | 00785901968276                    |
| Nbr. of units in pkg. | 12                                |
| Package weight(Lbs)   | 0.01 lb(US) (0.00 kg)             |
| Returnability         | No                                |
| Country of origin     | MX                                |

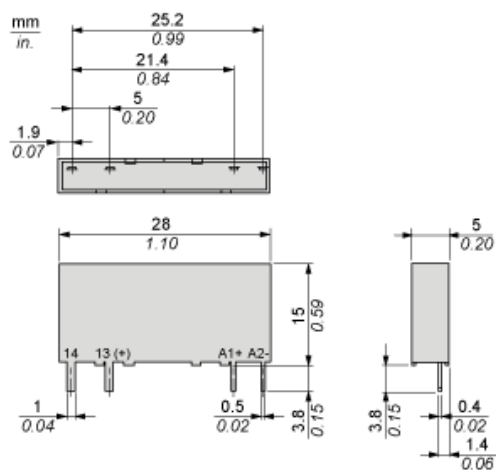
## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 0.28 in (0.7 cm)        |
| Package 1 width              | 0.98 in (2.5 cm)        |
| Package 1 Length             | 14.57 in (37 cm)        |
| Unit Type of Package 2       | BB1                     |
| Number of Units in Package 2 | 12                      |
| Package 2 Weight             | 2.12 oz (60 g)          |
| Package 2 Height             | 0.28 in (0.7 cm)        |
| Package 2 width              | 0.98 in (2.5 cm)        |
| Package 2 Length             | 14.57 in (37 cm)        |
| Unit Type of Package 3       | S01                     |
| Number of Units in Package 3 | 1080                    |
| Package 3 Weight             | 12.53 lb(US) (5.684 kg) |
| Package 3 Height             | 5.91 in (15 cm)         |
| Package 3 width              | 5.91 in (15 cm)         |
| Package 3 Length             | 15.75 in (40 cm)        |

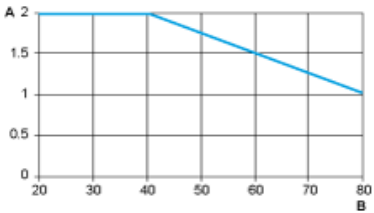
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                       |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                           |
| REACH free of SVHC         | Yes                                                                                                                                                                                                                                                                                         |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                              |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</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



Derating Curves



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

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