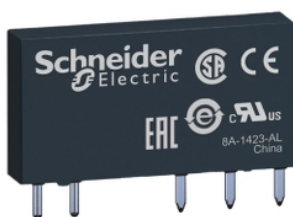


## Product data sheet

### Characteristics

# RSL1AB4ND

Harmony Electromechanical Relays, Slim interface plug in relay, 6A, 1CO, standard, 60V DC



### Main

|                                              |                                  |
|----------------------------------------------|----------------------------------|
| Range of product                             | Harmony Electromechanical Relays |
| Series name                                  | Slim interface relay             |
| Product or component type                    | Plug-in relay                    |
| Device short name                            | RSL                              |
| Contacts type and composition                | 1 C/O                            |
| Contact operation                            | Standard                         |
| [Uc] control circuit voltage                 | 60 V DC                          |
| [Ithe] conventional enclosed thermal current | 6 A at -40...55 °C               |
| Status LED                                   | Without                          |
| Control type                                 | Without push-button              |

### Complementary

|                                        |                                                               |
|----------------------------------------|---------------------------------------------------------------|
| Shape of pin                           | Flat (PCB type)                                               |
| Average resistance                     | 16600 Ohm at 23 °C +/- 15 %                                   |
| Rated operational voltage limits       | 45...84 V DC                                                  |
| [Ui] rated insulation voltage          | 250 V conforming to IEC<br>277 V conforming to cUL            |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC                                        |
| Contacts material                      | Silver alloy (AgSnO2)                                         |
| [Ie] rated operational current         | 6 A (AC-1/DC-1) conforming to IEC/UL                          |
| Minimum switching current              | 10 mA                                                         |
| Maximum switching voltage              | 277 V                                                         |
| Minimum switching voltage              | 12 V                                                          |
| Maximum switching capacity             | 1500 VA<br>50 W                                               |
| Minimum switching capacity             | 120 mW                                                        |
| Operating rate                         | <= 360 cycles/hour under load<br><= 18000 cycles/hour no-load |
| Mechanical durability                  | 10000000 cycles                                               |
| Electrical durability                  | 60000 cycles, 6 A at 250 V, AC-1 C/O                          |
| Operating time                         | 5 ms reset<br>12 ms                                           |
| Protection category                    | RT III                                                        |
| Test levels                            | Level A group mounting                                        |
| Operating position                     | Any position                                                  |
| Width                                  | 5 mm                                                          |
| Height                                 | 28 mm                                                         |
| Depth                                  | 18.5 mm                                                       |
| Terminals description ISO n°1          | (11-12-14)OC<br>(A1-A2)CO                                     |

|                            |                                          |
|----------------------------|------------------------------------------|
| Net weight                 | 0.0054 kg                                |
| Load current               | 6 A at 250 V AC 0.5 mm mounting distance |
| Average coil consumption   | 0.21 W                                   |
| Drop-out voltage threshold | $\geq 0.05 U_c$                          |
| Safety reliability data    | B10d = 60000                             |
| Mounting support           | Socket or PCB                            |
| Device presentation        | Complete product                         |

## Environment

|                                       |                                                                                                                                                 |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Dielectric strength                   | 1000 V AC between contacts<br>4000 V AC between coil and contact                                                                                |
| Standards                             | CSA C22.2 No 14<br>UL 508<br>IEC 61810-1                                                                                                        |
| Product certifications                | CSA[RETURN]UL[RETURN]EAC                                                                                                                        |
| Ambient air temperature for storage   | -40...70 °C                                                                                                                                     |
| Vibration resistance                  | +/- 1 mm (f= 10...55 Hz) conforming to IEC 60068-2-6                                                                                            |
| IP degree of protection               | IP40 conforming to IEC 60529                                                                                                                    |
| Shock resistance                      | 5 gn (duration = 11 ms) for not operating conforming to IEC 60068-2-27<br>5 gn (duration = 11 ms) for in operation conforming to IEC 60068-2-27 |
| Ambient air temperature for operation | -40...55 °C                                                                                                                                     |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 0.5 cm   |
| Package 1 Width              | 1.5 cm   |
| Package 1 Length             | 2.8 cm   |
| Package 1 Weight             | 5 g      |
| Unit Type of Package 2       | BB1      |
| Number of Units in Package 2 | 10       |
| Package 2 Height             | 0.7 cm   |
| Package 2 Width              | 2.4 cm   |
| Package 2 Length             | 30.5 cm  |
| Package 2 Weight             | 69 g     |
| Unit Type of Package 3       | S01      |
| Number of Units in Package 3 | 500      |
| Package 3 Height             | 15 cm    |
| Package 3 Width              | 15 cm    |
| Package 3 Length             | 40 cm    |
| Package 3 Weight             | 3.835 kg |

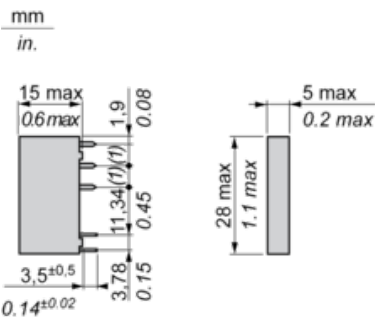
## Offer Sustainability

|                            |                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                |
| 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> |
| Toxic heavy metal free     | Yes                                                                                                                                                                                  |
| Mercury free               | Yes                                                                                                                                                                                  |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>                                                           |
| RoHS exemption information |  <a href="#">Yes</a>                                                                              |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a>                                                    |
| Circularity Profile        |  <a href="#">End Of Life Information</a>                                                          |

|                             |                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| WEEE                        | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Toxic free                  | Yes                                                                                                                         |
| Phenolic free solution      | Yes                                                                                                                         |
| <b>Contractual warranty</b> |                                                                                                                             |
| Warranty                    | 18 months                                                                                                                   |

Dimensions

Relay with Flat Pins (PCB Type)



(1): 5.04 mm / 0.19 in.

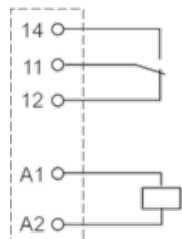
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## Wiring Diagram

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### Relay with Flat Pins (PCB Type)

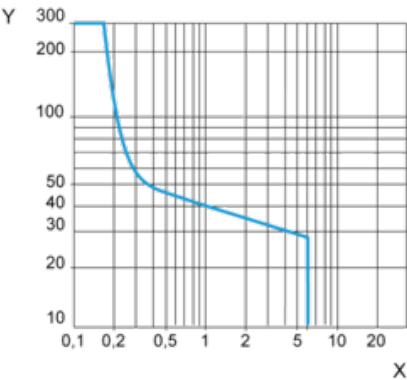
1 C/O contact



Curves for Resistive Load

Maximum Switching Capacity on DC Load

Resistive load

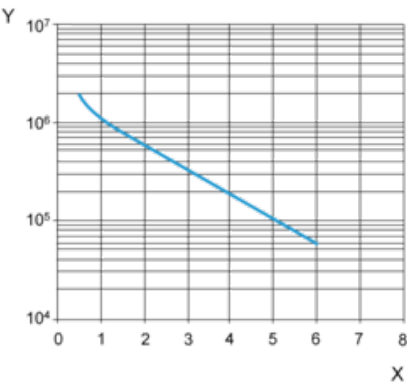


X DC Current

Y DC Voltage

Electrical Durability

Only tested at 6A/250VAC, projection for the rest  
250 Vac Resistive load



X Switching current (A)

Y Cycles

Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.