



Main

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|--|----------------------------------|
| Range of product | Harmony Electromechanical Relays |
| Series name | Interface relay |
| Product or component type | Plug-in relay |
| Device short name | RSB |
| Contacts type and composition | 1 C/O |
| Contact operation | Standard |
| [Ithe] conventional enclosed thermal current | 16 A at -40...40 °C |
| Status LED | Without |
| Control type | Without push-button |

Complementary

| | |
|--|---|
| Shape of pin | Flat (PCB type) |
| Average coil resistance | 1540 Ohm network: AC at 20 °C +/- 10 % |
| [Ue] rated operational voltage | 38.4...72 V AC 50/60 Hz |
| [Ui] rated insulation voltage | 400 V conforming to EN/IEC 60947 |
| [Uimp] rated impulse withstand voltage | IEC 61000-4-5 3.6 kV |
| Contacts material | Silver alloy (AgNi) |
| [Ie] rated operational current | 16 A (AC-1/DC-1) NO conforming to IEC 8 A (AC-1/DC-1) NC conforming to IEC |
| Minimum switching current | 10 mA |
| Maximum switching voltage | 300 V DC conforming to IEC |
| Minimum switching voltage | 12 V |
| Maximum switching capacity | 4000 VA/448 W |
| Resistive rated load | 16 A at 250 V AC 16 A at 28 V DC |
| Minimum switching capacity | 120 mW at 10 mA, 12 V |
| Operating rate | <= 600 cycles/hour under load <= 18000 cycles/hour no-load |
| Mechanical durability | 10000000 cycles |
| Electrical durability | 100000 Cycles, 16 A at 250 V, AC-1 NO 100000 cycles, 8 A at 250 V, AC-1 NC |
| Operating time | 20 ms operating 20 ms reset |
| Marking | CE |
| Average coil consumption | 0.75 VA AC |
| Drop-out voltage threshold | >= 0.15 U _c AC |
| Safety reliability data | B10d = 100000 |
| Protection category | RT I |
| Test levels | Level A group mounting |
| Operating position | Any position |
| Net weight | 0.014 kg |
| Sale per indivisible quantity | 10 |
| Device presentation | Complete product |

Environment

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|---------------------------------------|--|
| Dielectric strength | 1000 V AC between contacts 2500 V AC between poles 5000 V AC between coil and contact |
| Standards | CSA C22.2 No 14 EN/IEC 61810-1 UL 508 |
| Product certifications | UL EAC CSA |
| Ambient air temperature for storage | -40...85 °C |
| Vibration resistance | +/- 1 mm (f= 10...55 Hz) conforming to EN/IEC 60068-2-6 |
| IP degree of protection | IP40 conforming to EN/IEC 60529 |
| Shock resistance | 10 gn (duration = 11 ms) for not operating conforming to EN/IEC 60068-2-27 5 gn (duration = 11 ms) for in operation conforming to EN/IEC 60068-2-27 |
| Ambient air temperature for operation | -40...70 °C (AC) |

Packing Units

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|------------------|----------|
| Package 1 Weight | 0.014 kg |
| Package 1 Height | 0.170 dm |
| Package 1 width | 3.330 dm |
| Package 1 Length | 0.270 dm |

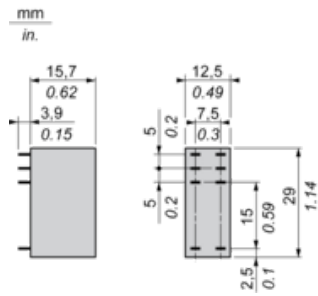
Offer Sustainability

| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

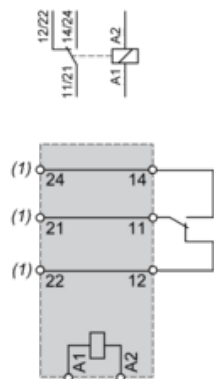
Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions



Wiring Diagram



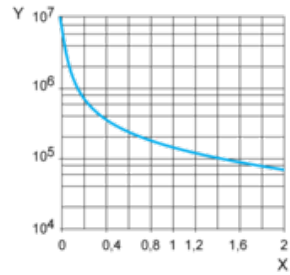
(1) Terminals 11 and 21, 14 and 24, 12 and 22 must be linked for this references

NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

Electrical Durability of Contacts

Durability (inductive load) = durability (resistive load) x reduction coefficient.

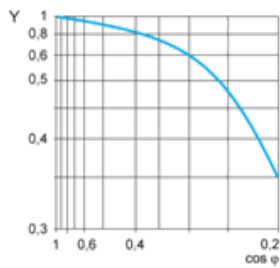
Resistive AC load



X Switching capacity (kVA)

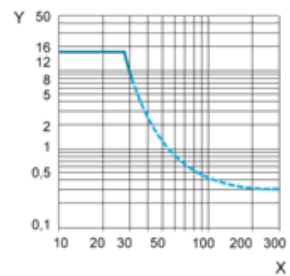
Y Durability (Number of operating cycles)

Reduction coefficient for inductive AC load (depending on power factor $\cos \phi$)



Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



X Voltage DC

Y Current DC

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