# Product data sheet

Specifications

## Plug in relay, Zelio Relay, RHK, latching, 4 C/O, 80 V DC, 5 A

RHK412EV

ⓘ Discontinued on: Oct 20, 2020

ⓘ **Discontinued**

## Main

| | |
|---|---|
| Range Of Product | Harmony Relay |
| Product Or Component Type | Plug-in relay |
| Device Short Name | RHK |
| Contacts Type And Composition | 4 C/O |
| Contact Operation | Standard<br>Latching |
| [Uc] Control Circuit Voltage | 80 V DC |
| [Ithe] Conventional Enclosed Thermal Current | 5 A 40 °C |
| Status Led | Without |
| Control Type | Manual control |
| Coil Interference Suppression | Without |

## Complementary

| | |
|---|---|
| [Ui] Rated Insulation Voltage | 250 V |
| Test Levels | Level A group mounting |
| Operating Position | Any position |
| Minimum Switching Capacity | 150 mVA at 10 mA<br>150 mVA, 1 V |
| Contact Bounce Time | <= 10 ms |
| Maximum Voltage Drop | <100 V for 3 A at 24 V |
| Average Resistance | 30 mOhm at 20 °C |
| Average Coil Consumption | 1.6 W at 20 °C on coil 1<br>2.9 W at 20 °C on coil 2 |
| Control Circuit Voltage Limits | 0.8...1.1 Uc conforming to IEC 60255 |
| Drop-Out Voltage Threshold | 0.1...0.3 Uc |
| Time Constant | 12 ms for open contact(s)<br>15 ms for closed contact(s) |
| Mechanical Durability | 10000000 cycles |
| Maximum Operating Rate | 2 cyc/mn |
| Operating Time | 10...14 ms between energisation of trip coil and closing of NC contact at 20 °C<br>12...22 ms between energisation of coil and closing of NO contact at 20 °C<br>1...4 ms for energisation/de-energisation<br>1.2...4 ms for de-energisation/energisation |

| | |
|---|---|
| **Minimum Pulse Duration** | 50 ms |
| **Cad Overall Width** | 33 mm |
| **Cad Overall Height** | 43 mm |
| **Cad Overall Depth** | 90 mm |
| **Terminals Description Iso N°1** | (11-12-14)OC |
| **Net Weight** | 0.14 kg |
| **Compatibility Code** | RHK |

## Environment

| | |
|---|---|
| **Standards** | NF C 45-250<br>IEC 255<br>BS 4794<br>VDE 0435 |
| **Product Certifications** | UR<br>BV<br>CSA<br>ASE<br>USSR<br>EDF |
| **Protective Treatment** | TC |
| **Dielectric Strength** | 2500 V |
| **Ambient Air Temperature For Operation** | -5…40 °C conforming to IEC 60255 |
| **Ambient Air Temperature For Storage** | -40…70 °C |
| **Vibration Resistance** | 6 gn (f= 10…55 Hz) conforming to IEC 60068-2-6<br>6 gn (f= 10…55 Hz) conforming to NF C 20-616 |
| **Shock Resistance** | 30 gn for 11 ms conforming to NF C 20-608 |

## Contractual warranty

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

# Sustainability

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium ›

Guide to assess a product's sustainability ›

Transparency

## Well-being performance

✓ Toxic Heavy Metal Free

✓ Mercury Free

✓ Rohs Exemption Information          Yes

| | |
|---|---|
| **Eu Rohs Directive** | Pro-active compliance (Product out of EU RoHS legal scope) |
| | EU RoHS Declaration |
| **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 |
| **Circularity Profile** | End of Life Information |
| **California Proposition 65** | WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |