

Product data sheet

Specifications



Plug in relay, Harmony Relay, RHK, latching, 4 C/O, 48 V AC 50 Hz, 1 A

RHK421E

⚠ Discontinued on: Jan 18, 2021

⚠ 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 | Low level Latching |
| [Uc] control circuit voltage | 48 V AC 50 Hz |
| [Ithe] conventional enclosed thermal current | 1 A 104 °F (40 °C) |
| Status LED | Without |
| Control Type | Manual control |
| Coil interference suppression | Without |

Complementary

| | |
|--------------------------------|---|
| [Ui] Rated Insulation Voltage | 250 V |
| Operating position | Any position |
| Minimum switching capacity | 50 mVA 1 mA 50 mVA, 1 V |
| Contact bounce time | <= 10 ms |
| Maximum voltage drop | <100 V for 3 A at 24 V |
| Average resistance | 30 mOhm 68 °F (20 °C) |
| Average coil consumption in VA | 6 inrush) coil 1 1.3 holding) coil 2 2.5 inrush) coil 2 3.5 holding) coil 1 |
| Control circuit voltage limits | 0.8...1.1 Uc IEC 60255 |
| Drop-out voltage threshold | 0.15...0.5 Uc |
| Cos phi | 0.6 (inrush) 0.7 (holding) |
| Mechanical durability | 10000000 cycles |
| maximum operating rate | 2 cyc/mn |
| Operating time | 5...17 ms between energisation of coil and closing of NO contact 68 °F (20 °C) 8...16 ms between energisation of trip coil and closing of NC contact 68 °F (20 °C) 1...3 ms energisation/de-energisation 0.5...6 ms de-energisation/energisation |
| Minimum pulse duration | 50 ms |

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

| | |
|-------------------------------|--|
| CAD overall width | 1.3 in (33 mm) |
| CAD overall height | 1.7 in (43 mm) |
| CAD overall depth | 3.5 in (90 mm) |
| Terminals description ISO n°1 | (31-32-34)OC (B1-B2)CO (11-12-14)OC (A1-A2)CO (41-42-44)OC (21-22-24)OC |
| Net Weight | 0.20 lb(US) (0.09 kg) |
| Compatibility code | RHK |

Environment

| | |
|---------------------------------------|--|
| Standards | IEC 255 BS 4794 NF C 45-250 VDE 0435 |
| Product Certifications | BV CSA UR USSR EDF ASE |
| Protective treatment | TC |
| Dielectric strength | 2500 V |
| Ambient air temperature for operation | 23...104 °F (-5...40 °C) IEC 60255 |
| Ambient Air Temperature for Storage | -40...158 °F (-40...70 °C) |
| Vibration resistance | 6 gn (f= 10...55 Hz) conforming to IEC 60068-2-6 6 gn (f= 10...55 Hz) conforming to NF C 20-616 |
| Shock resistance | 30 gn 11 ms NF C 20-608 |

Ordering and shipping details

| | |
|-------------------|--------------------------------------|
| Category | 18403-WORLD SERVICE PARTS(ENVELOPES) |
| Discount Schedule | CP10 |
| GTIN | 3389110220544 |
| Returnability | No |

Packing Units

| | |
|------------------------|------------------|
| Unit Type of Package 1 | PCE |
| Nbr. of units in pkg. | 1 |
| Package 1 Height | 2.2 in (5.5 cm) |
| Package 1 Width | 2.0 in (5 cm) |
| Package 1 Length | 4.5 in (11.5 cm) |
| Package weight(Lbs) | 5.2 oz (148 g) |

Contractual warranty

| | |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



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 >](#)

Use Better

Materials and Substances

[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: 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

Use Longer

Lifetime extension

Repair

No