Product data sheet Characteristics

RHK412B

plug-in relay - Zelio RHK - latching - 4 C/O - 24 V DC - 5 A



Main

Range of product	Zelio Relay
Product or component type	Plug-in relay
Device short name	RHK
Contacts type and composition	4 C/O
Contacts operation	Latching Standard
Control circuit voltage	24 V DC
[Ithe] conventional enclosed thermal current	5 A at <= 40 °C
Status LED	Without
Control type	Manual control
Coil interference sup- pression	Without

Complementary

Operating position	[Ui] rated insulation voltage	250 V
150 mVA at 10 mA	Operating position	Any position
Voltage drop <= 100 V for 3 A at 24 V Average resistance 30 mOhm at 20 °C Switching time 1.24 ms for de-energisation/energisation Average consumption in W 2.9 W at 20 °C on coil 2 1.6 W at 20 °C on coil 1 Control circuit voltage limits 0.81.1 Uc conforming to IEC 60255 Drop-out voltage threshold 0.10.3 Uc Time constant 15 ms for closed contact(s) 12 ms for open contact(s) Mechanical durability 10000000 cycles Operating rate <= 2 cyc/mn Operating time 1222 ms between energisation of coil and closing of NO contact at 20 °C 1014 ms between energisation of trip coil and closing of NC contact at 20 °C 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 (21-22-24)OC (31-32-34)OC (41-42-44)OC (A1-42)CO (B1-B2)CO	Minimum switching capacity	
Average resistance 30 mOhm at 20 °C Switching time 1.24 ms for de-energisation/de-energisation 14 ms for energisation/de-energisation Average consumption in W 2.9 W at 20 °C on coil 2 1.6 W at 20 °C on coil 2 1.6 W at 20 °C on coil 1 Control circuit voltage limits 0.81.1 Uc conforming to IEC 60255 Drop-out voltage threshold 1.5 ms for closed contact(s) 12 ms for open contact(s) Mechanical durability 10000000 cycles Operating rate 4= 2 cyc/mn Operating time 1222 ms between energisation of coil and closing of NO contact at 20 °C 1014 ms between energisation of trip coil and closing of NC contact at 20 °C Minimum pulse duration >= 50 ms CAD overall width 33 mm CAD overall depth 90 mm Terminals description ISO n°1 (11-12-14)OC (21-22-24)OC (31-32-34)OC (41-42-44)OC (41-42-44)OC (41-42-44)OC (61-82)CO (B1-B2)CO	Contact bounce time	<= 10 ms
Switching time 1.2 4 ms for de-energisation/energisation 1 4 ms for de-energisation/de-energisation Average consumption in W 2.9 W at 20 °C on coil 2 1.6 W at 20 °C on coil 1 Control circuit voltage limits 0.8 1.1 Uc conforming to IEC 60255 Drop-out voltage threshold 0.1 0.3 Uc Time constant 15 ms for closed contact(s) 12 ms for open contact(s) Mechanical durability 10000000 cycles Operating rate <	Voltage drop	<= 100 V for 3 A at 24 V
14 ms for energisation/de-energisation Average consumption in W 2.9 W at 20 °C on coil 2 1.6 W at 20 °C on coil 1 Control circuit voltage limits 0.81.1 Uc conforming to IEC 60255 Drop-out voltage threshold 0.10.3 Uc Time constant 15 ms for closed contact(s) 12 ms for open contact(s) Mechanical durability 10000000 cycles Operating rate <= 2 cyc/mn Operating time 1222 ms between energisation of coil and closing of NO contact at 20 °C 1014 ms between energisation of trip coil and closing of NC contact at 20 °C 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 (21-22-24)OC (31-32-34)OC (41+42-44)OC (A1-A2)CO (B1-B2)CO	Average resistance	30 mOhm at 20 °C
1.6 W at 20 °C on coil 1 Control circuit voltage limits Drop-out voltage threshold 15 ms for closed contact(s) 12 ms for open contact(s) Mechanical durability 10000000 cycles Operating rate <= 2 cyc/mn Operating time 1222 ms between energisation of coil and closing of NO contact at 20 °C 1014 ms between energisation of trip coil and closing of NC contact at 20 °C 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 (21-22-24)OC (31-32-34)OC (41-42-44)OC (A1-A2)CO (B1-B2)CO	Switching time	
Drop-out voltage threshold O.10.3 Uc Time constant 15 ms for closed contact(s) 12 ms for open contact(s) Mechanical durability 10000000 cycles Operating rate <= 2 cyc/mn Operating time 1222 ms between energisation of coil and closing of NO contact at 20 °C 1014 ms between energisation of trip coil and closing of NC contact at 20 °C 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 (21-22-24)OC (31-32-34)OC (41-42-44)OC (A1-A2)CO (B1-B2)CO	Average consumption in W	
Time constant 15 ms for closed contact(s) 12 ms for open contact(s) 10000000 cycles Operating rate 1222 ms between energisation of coil and closing of NO contact at 20 °C 1014 ms between energisation of trip coil and closing of NC contact at 20 °C 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 (21-22-24)OC (31-32-34)OC (41-42-44)OC (A1-A2)CO (B1-B2)CO	Control circuit voltage limits	0.81.1 Uc conforming to IEC 60255
Mechanical durability 10000000 cycles Operating rate <= 2 cyc/mn Operating time 1222 ms between energisation of coil and closing of NO contact at 20 °C 1014 ms between energisation of trip coil and closing of NC contact at 20 °C 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 (21-22-24)OC (31-32-34)OC (41-42-44)OC (A1-A2)CO (B1-B2)CO (B1-B2)CO	Drop-out voltage threshold	0.10.3 Uc
Operating rate <= 2 cyc/mn Operating time 1222 ms between energisation of coil and closing of NO contact at 20 °C 1014 ms between energisation of trip coil and closing of NC contact at 20 °C Minimum pulse duration >= 50 ms CAD overall width CAD overall height 43 mm CAD overall depth 90 mm Terminals description ISO n°1 (11-12-14)OC (21-22-24)OC (31-32-34)OC (41-42-44)OC (A1-A2)CO (B1-B2)CO	Time constant	
Operating time 1222 ms between energisation of coil and closing of NO contact at 20 °C 1014 ms between energisation of trip coil and closing of NC contact at 20 °C 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 (21-22-24)OC (31-32-34)OC (41-42-44)OC (A1-A2)CO (B1-B2)CO	Mechanical durability	10000000 cycles
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 (21-22-24)OC (31-32-34)OC (41-42-44)OC (A1-A2)CO (B1-B2)CO	Operating rate	<= 2 cyc/mn
CAD overall width CAD overall height 43 mm CAD overall depth 90 mm Terminals description ISO n°1 (11-12-14)OC (21-22-24)OC (31-32-34)OC (41-42-44)OC (A1-A2)CO (B1-B2)CO	Operating time	
CAD overall height 43 mm CAD overall depth 90 mm Terminals description ISO n°1 (11-12-14)OC (21-22-24)OC (31-32-34)OC (41-42-44)OC (A1-A2)CO (B1-B2)CO	Minimum pulse duration	>= 50 ms
CAD overall depth 90 mm Terminals description ISO n°1 (11-12-14)OC (21-22-24)OC (31-32-34)OC (41-42-44)OC (A1-A2)CO (B1-B2)CO	CAD overall width	33 mm
Terminals description ISO n°1 (11-12-14)OC (21-22-24)OC (31-32-34)OC (41-42-44)OC (A1-A2)CO (B1-B2)CO	CAD overall height	43 mm
(21-22-24)OC (31-32-34)OC (41-42-44)OC (A1-A2)CO (B1-B2)CO	CAD overall depth	90 mm
Product weight 0.14 kg	Terminals description ISO n°1	(21-22-24)OC (31-32-34)OC (41-42-44)OC (A1-A2)CO
1 Todact Weight 0.14 kg	Product weight	0.14 kg

Environment

Standards	BS 4794 IEC 255 NF C 45-250 VDE 0435
Product certifications	ASE BV CSA EDF UR USSR
Protective treatment	TC
Dielectric strength	2500 V
Ambient air temperature for operation	-540 °C conforming to IEC 60255
Ambient air temperature for storage	-4070 °C
Vibration resistance	6 gn (f = 1055 Hz) conforming to NF C 20-616 6 gn (f = 1055 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn for 11 ms conforming to NF C 20-608

