

# Product data sheet

Specifications



## RelayAux - instantaneous trip relay - 4 C/O - pick-up time < 20 ms - 110 V DC

REL91203

### Main

Range Of Product	RelayAux
Product Or Component Type	Instantaneous trip relay
Coil Type	Low consumption
[Uc] Control Circuit Voltage	110 V DC (- 20 % + 10 % Un)
Type Of Connectors	REL91350 (front connection socket) REL91354 (flush mounting socket)
Status Led	With
Control Type	Test button
Local Signalling	Mechanical indicator (red) for contact position LED

### Complementary

Contacts Type And Composition	4 C/O
Insulation Resistance Measurements	> 100 MOhm at 500 V DC conforming to IEC 60255-5
[Uimp] Rated Impulse Withstand Voltage	5 kV during 1.2/50 µs conforming to IEC 60255-5
Contacts Material	AgNi
Permanent Current	10 A
Instantaneous Current	30 A during 1 s 80 A during 200 ms 200 A during 10 ms
Maximum Making Capacity	30 A during 0.5 s at 110 V DC
Mechanical Durability	10000000 cycles
Pick-Up Time	20 ms
Drop-Out Time	50 ms
Maximum Contact Resistance	30 mOhm
Inter Contact Distance	1.8 mm
Mechanical Robustness	Shocks 11 ms (5 gn) conforming to IEC 60068-2-27 Bumps 16 ms (10 Gn) conforming to IEC 60068-2-29
Height	50.4 mm
Width	42.5 mm
Depth	72 mm
Net Weight	0.25 kg

### Environment

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Dielectric Strength	2 kV 50 Hz 1 min conforming to IEC 60255-5
Maximum Relative Humidity	93 % at 40 °C
Electromagnetic Compatibility	Conducted and radiated emissions criteria A conforming to EN 55022 Conducted and radiated emissions criteria B conforming to EN 55022 Electrostatic discharge - test level: 15 kV level 4 (air discharge) conforming to IEC 61000-4-2 Electrostatic discharge - test level: 8 kV level 4 (contact discharge) conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test - test level: 10 V/m, 80 MHz...1 GHz level 3 conforming to IEC 61000-4-3 Radiated radio-frequency electromagnetic field immunity test - test level: 10 V/m, 80 MHz...1 GHz level 3 conforming to ENV 50204 Electrical fast transient/burst immunity test - test level: 4 kV, 5 kHz level 4 (1 min) conforming to IEC 61000-4-4 Surge immunity test - test level: 2 kV level 3 (common mode) conforming to IEC 61000-4-5 Surge immunity test - test level: 1 kV level 3 (differential mode) conforming to IEC 61000-4-5 Conducted RF disturbances - test level: 10 V, 0.15...80 MHz level 3 conforming to IEC 61000-4-6 Magnetic field at power frequency - test level: 100 A/m level 5 (continuous) conforming to IEC 61000-4-8 Magnetic field at power frequency - test level: 1000 A/m level 5 (2 s) conforming to IEC 61000-4-8 Damped oscillating waves - test level: 2.5 kV, 1 MHz level 3 (common mode) conforming to IEC 60255-22-1 Damped oscillating waves - test level: 1 kV, 1 MHz level 3 (differential mode) conforming to IEC 60255-22-1
Environmental Characteristic	Exposure to cold in operation conforming to IEC 60068-2-1 Exposure to cold in storage conforming to IEC 60068-2-1 Continuous exposure to damp heat in storage 56 d (93 %) conforming to 40 °C conforming to IEC 60068-2-78 Salt mist in storage conforming to ISO 9227 Exposure to dry heat in operation conforming to IEC 60068-2-2 Exposure to dry heat in storage conforming to IEC 60068-2-2
Vibration Resistance	1 gn (f = 58...150 Hz) conforming to IEC 60068-2-1 +/- 0.075 mm (f = 10...58 Hz) conforming to IEC 60068-2-1
Ip Degree Of Protection	IP40 conforming to IEC 60529
Ambient Air Temperature For Operation	-25...70 °C
Ambient Air Temperature For Storage	-25...70 °C
Fire Resistance	850 °C during 30 s
Operating Altitude	< 2000 m
Directives	72/23/EEC - low voltage directive 92/31/EEC - electromagnetic compatibility 93/68/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility
Product Certifications	CE UL listed file E322124

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.2 cm
Package 1 Width	5.0 cm
Package 1 Length	2.3 cm
Package 1 Weight	270.0 g