

Product data sheet

Specifications



RelayAux - instantaneous fast trip relay - 4 C/O - pick-up time < 8 ms - 30 V DC

REL91221

Main

Range Of Product	RelayAux
Product Or Component Type	Instantaneous fast trip relay
Coil Type	Low consumption
[Uc] Control Circuit Voltage	30 V DC (- 20 % + 10 % Un)
Type Of Connectors	REL91350 (front connection socket) REL91355 (flush mounting socket)
Status Led	With
Local Signalling	Mechanical indicator (red) for contact position LED Flag (red) for relay trip indicator

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	40 A during 0.5 s at 110 V DC
Mechanical Durability	10000000 cycles
Consumption In Permanence (Un)	Low consumption: 2 W - average High consumption: 4 W - steady state High consumption: 300 W - peak (< 2 ms)
Pick-Up Time	8 ms
Drop-Out Time	40 ms
Maximum Contact Resistance	30 mOhm
Inter Contact Distance	1.2 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

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

Environment

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