

# Product datasheet

Specifications



## RelayAux - instantaneous fast trip relay - 4 C/O - pick-up time < 8 ms - 125 VDC

REL91224

### Main

Range of product	RelayAux
Product or component type	Instantaneous fast trip relay
Coil type	Low consumption
[Uc] control circuit voltage	125 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
Product weight	0.25 kg

## Environment

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

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	4.7 cm
<b>Package 1 Width</b>	5.7 cm
<b>Package 1 Length</b>	11.5 cm
<b>Package 1 Weight</b>	259.0 g
<b>Unit Type of Package 2</b>	S01

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<b>Number of Units in Package 2</b>	16
<b>Package 2 Height</b>	15.0 cm
<b>Package 2 Width</b>	15.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	4.343 kg

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## **Contractual warranty**

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<b>Warranty (in months)</b>	18
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## 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

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	<a href="#">Compliant</a>

### Use Longer



#### Lifetime extension

Repair	No
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### Use Again



#### Repack and remanufacture

Take-back	No
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