

# Product datasheet

Specifications



## 17.5MM TIMER RELAY 4 FUNCTION ABCH (FOR INDUSTRIAL CONSUMER)

RE10RMMU

### Main

Range of product	Harmony Relay
Product or component type	Modular timing relay
Discrete output type	Relay
Component name	RE11R
Time delay type	D H B Ht Ac Bw C Di At A
Time delay range	10...100 h 0.1...1 s 1...10 h 6...60 s 1...10 s 1...10 min 6...60 min
[Us] rated supply voltage	24 V DC 24...240 V AC 50/60 Hz
Nominal output current	8 A

### Complementary

Contacts material	AgNi (cadmium free)
Width pitch dimension	17.5 mm
Control type	Selector switch front panel
Voltage range	0.85...1.1 Us
Connections - terminals	Screw terminals, 2 x 1.5 mm <sup>2</sup> without cable end Screw terminals, 2 x 2.5 mm <sup>2</sup> + 1 x 4 mm <sup>2</sup> with cable end
Housing material	Self-extinguishing
Repeat accuracy	+/- 0.5 % conforming to IEC 61812-1
Temperature drift	+/- 0.05 %/°C
Voltage drift	+/- 0.2 %/V
Setting accuracy of time delay	+/- 10 % of full scale at 25 °C conforming to IEC 61812-1
Minimum pulse duration	100 ms with load in parallel 30 ms

<b>Reset time</b>	100 ms on de-energisation
<b>On-load factor</b>	100 %
<b>Power consumption in VA</b>	32 VA at 240 V
<b>Power consumption in W</b>	0.6 W at 24 V 1.5 W at 240 V
<b>Minimum switching current</b>	10 mA
<b>Maximum switching current</b>	8 A
<b>Maximum switching voltage</b>	250 V
<b>Breaking capacity</b>	2000 VA 80 W
<b>Electrical durability</b>	100000 cycles at 8 A, 250 V for resistive load
<b>Mechanical durability</b>	5000000 cycles
<b>[Uimp] rated impulse withstand voltage</b>	5 kV for 1.2...50 µs conforming to IEC 60664-1 5 kV for 1.2...50 µs conforming to IEC 61812-1
<b>Marking</b>	CE
<b>Creepage distance</b>	4 kV/3 conforming to IEC 60664-1
<b>Mounting support</b>	35 mm symmetrical mounting rail conforming to EN 50022
<b>Local signalling</b>	LED indicator green, flashing for timing in progress LED indicator green, steady for relay energised, no timing in progress LED indicator green, blinking for relay energised, no timing in progress (except functions Di-D)
<b>Net weight</b>	0.06 kg
<b>Compatibility code</b>	RE10

## Environment

<b>Immunity to microbreaks</b>	10 ms
<b>Dielectric strength</b>	2.5 kV for 1 mA/1 minute at 50 Hz conforming to IEC 61812-1
<b>Standards</b>	IEC 60669-2-3 EN 50082-1/2 EN 50081-1/2 IEC 61812-1
<b>Directives</b>	93/68/EEC - low voltage directive 73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility
<b>Product certifications</b>	CSA GL cULus
<b>Ambient air temperature for storage</b>	-30...60 °C
<b>Ambient air temperature for operation</b>	-20...60 °C
<b>IP degree of protection</b>	IP20 terminal block: conforming to IEC 60529 IP40 housing: conforming to IEC 60529 IP50 front panel: conforming to IEC 60529
<b>Vibration resistance</b>	0.35 mm (f= 10...55 Hz) conforming to IEC 60068-2-6
<b>Relative humidity</b>	93 % without condensation conforming to IEC 60068-2-3
<b>Electromagnetic compatibility</b>	Electrostatic discharge - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2 Electrostatic discharge - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test - test level: 10 V/m level 3 (80 MHz...1 GHz) conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test - test level: 1 kV level 3 (capacitive connecting clip) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 2 kV level 3 (direct) conforming to IEC 61000-4-4 Surge immunity test - test level: 1 kV level 3 (differential mode) conforming to IEC 61000-4-5 Surge immunity test - test level: 2 kV level 3 (common mode) conforming to IEC 61000-4-5 Conducted RF disturbances - test level: 10 V (0.15...80 MHz) conforming to IEC 61000-4-6 Immunity to microbreaks and voltage drops - test level: 30 % (10 ms) conforming to IEC 61000-4-11 Immunity to microbreaks and voltage drops - test level: 60 % (100 ms) conforming to IEC 61000-4-11 Immunity to microbreaks and voltage drops - test level: 95 % (5 s) conforming to IEC 61000-4-11

## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>

## Recommended replacement(s)