Product data sheet
Characteristics

RE22R2MMW
multifunction relay, Harmony Timer Relays, 8A, 2CO, 0.1sâ€¦100h, symmetrical flashing, 12..240V AC DC



Main

Range of product	Harmony Timer Relays
Discrete output type	Relay
Product or component type	Modular timing relay
Device short name	RE22
Nominal output current	8 A

Complementary

Contacts type and composition	1 C/O timed contact 1 C/O timed or instantaneous contact
Time delay type	Power on-delay On-delay and off-delay Interval Off-delay Symmetrical flashing
Time delay range	0.1...1 s 6...60 s 1...10 h 1...10 min 1...10 s 10...100 h 6...60 min
Control type	Rotary knob front panel
[Us] rated supply voltage	12...240 V AC/DC
Voltage range	0.85...1.1 Us
Supply frequency	50...60 Hz +/- 5 %
Connections - terminals	Screw terminals, 2 x 1.5 mm² with cable end Screw terminals, 2 x 2.5 mm² without cable end
Tightening torque	0.6…1 N.M conforming to IEC 60947-1
Housing material	Polycarbonate
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

Time delay type	Power on-delay - A- Power on-delay relay On-delay and off-delay - Ac- On-delay and off-delay relay w/ control signal Power on-delay - At- Power on-delay relay w/ pause/summation (Y1) Interval - B- Single interval relay w/ control signal Interval - Bw- Double interval relay w/ control signal Off-delay - C- Off-delay relay w/ control signal Symmetrical flashing - D- Symmetrical flashing relay (starting pulse-off) Symmetrical flashing - Di- Symmetrical flashing relay (starting pulse-on) Interval - H- Interval relay Interval - Ht- Interval relay w/ pause/summation (Y1)
Minimum pulse duration	30 Ms 100 Ms under load
Insulation resistance	100 MOhm at 500 V DC conforming to IEC 60664-1
Reset time	120 Ms on de-energisation
Immunity to microbreaks	10 Ms
Power consumption in VA	3 VA at 240 V AC
Power consumption in W	1.5 W at 240 V DC
Breaking capacity	2000 VA
Minimum switching current	10 MA at 5 V
Maximum switching current	8 A
Maximum switching voltage	250 V
Electrical durability	100000 Cycles for resistive load, 8 A at 250 V, AC
Mechanical durability	10000000 Cycles
[Uimp] rated impulse withstand voltage	5 KV for 1.2…50 µs conforming to IEC 60664-1 5 KV conforming to IEC 61812-1
Maximum delay response	100 Ms
Safety reliability data	B10d = 230000 MTTFd = 251.1 years
Mounting position	Any position in relation to normal vertical mounting plane
Mounting support	35 mm DIN rail conforming to IEC 60715
Status LED	LED green (flashing) for timing in progress LED green (steady) for power ON LED yellow for relay energised
Function available	A- Power on-delay relay-2 C/O Ac- On-delay and off-delay relay w/ control signal-2 C/O At- Power on-delay relay w/ pause/summation (Y1)-2 C/O B- Single interval relay w/ control signal-2 C/O Bw- Double interval relay w/ control signal-2 C/O C- Off-delay relay w/ control signal-2 C/O D- Symmetrical flashing relay (starting pulse-off)-2 C/O Di- Symmetrical flashing relay (starting pulse-on)-2 C/O H- Interval relay-2 C/O Ht- Interval relay w/ pause/summation (Y1)-2 C/O
Width	22.5 Mm
Net weight	0.093 Kg
Control type	With test button
Number of functions	10

Environment

Dielectric strength	2.5 KV for 1 mA/1 minute at 50 Hz conforming to IEC 61812-1
Standards	IEC 61812-1 IEC 61000-6-2 IEC 61000-6-1 IEC 61000-6-4 IEC 61000-6-3
Directives	2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive
Product certifications	CSA[RETURN]CE[RETURN]cULus[RETURN]GL[RETURN]RCM[RETURN]CCC[RETURN]EAC
Ambient air temperature for operation	-20…60 °C
Ambient air temperature for storage	-30…60 °C
IP degree of protection	IP40 housing: conforming to IEC 60529 IP20 terminal block: conforming to IEC 60529 IP40 front face: conforming to IEC 60529
Vibration resistance	20 m/s² (f= 10…150 Hz) conforming to IEC 60068-2-6
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27

Relative humidity	93 %, without condensation conforming to IEC 60068-2-30
Electromagnetic compatibility	Electrostatic discharge immunity test - test level: 6 kV level 3 (contact discharge) conforming to Electrostatic discharge immunity test - test level: 8 kV level 3 (air discharge) conforming to IEC Fast transients immunity test - test level: 1 kV level 3 (capacitive connecting clip) conforming to Fast transients immunity test - test level: 2 kV level 3 (direct contact) conforming to IEC 61000- 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 Radiated radio-frequency electromagnetic field immunity test - test level: 10 V level 3 (0.15...80 Electromagnetic field immunity test - test level: 10 V/m level 3 (80 MHz...1 GHz) conforming to Immunity to microbreaks and voltage drops - test level: 30 % (500 ms) conforming to IEC 6100 Immunity to microbreaks and voltage drops - test level: 100 % (20 ms) conforming to IEC 6100 Conducted and radiated emissions class B conforming to EN 55022

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.000 Cm
Package 1 Width	8.600 Cm
Package 1 Length	9.900 Cm
Package 1 Weight	108.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	4.800 Kg

Offer Sustainability

Recyclability potential, in %	18
Total lifecycle Carbon footprint	66 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	2.0143
Carbon footprint of the manufacturing phase [A1 to A3]	2 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.013573
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.00058866
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	64.379
Carbon footprint of the use phase [B2, B3, B4, B6]	64 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.063429
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	66
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	7bdc2711-0ad2-427c-8ece-532c5e9f09d7
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised