Product data sheet
Characteristics

RE22R2MXMU
multifunction relay, Harmony Timer Relays, 8A, 2CO, 0.1s…100h, bistable, 24V DC or 24...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	Pulse delay Safe-guard Bistable Interval
Time delay range	0.1...1 s 1...10 h 1...10 s 6...60 min 10...100 h 6...60 s 1...10 min
Control type	Rotary knob front panel
[Us] rated supply voltage	24...240 V AC 24 V 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	Pulse delay - Ad- Pulse delayed relay w/ control signal Pulse delay - Ah- Pulse delayed relay (single cycle) w/ control signal Safe-guard - N- Safe-guard relay Safe-guard - O- Delayed Safe-guard relay Pulse delay - P- Pulse delayed relay w/ fixed pulse length Pulse delay - Pt- Pulse delayed relay w/ fixed pulse length and pause/summation Bistable - TI- Bistable relay w/ control signal on Bistable - Tt- Retriggerable bistable relay w/ control signal on Interval - W- Interval relay w/ control signal off

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	50 VA at 240 V AC
Power consumption in W	0.7 W at 24 V DC
Breaking capacity	2000 VA
Minimum switching current	10 MA at 5 V
Maximum switching current	8 MA
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 = 170000 MTTFd = 182.6 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	Ad- Pulse delayed relay w/ control signal-2 C/O Ah- Pulse delayed relay (single cycle) w/ control signal-2 C/O N- Safe-guard relay-2 C/O O- Delayed Safe-guard relay-2 C/O P- Pulse delayed relay w/ fixed pulse length-2 C/O Pt- Pulse delayed relay w/ fixed pulse length and pause/summation-2 C/O TI- Bistable relay w/ control signal on-2 C/O Tt- Retriggerable bistable relay w/ control signal on-2 C/O W- Interval relay w/ control signal off-2 C/O
Width	22.5 Mm
Net weight	0.09 Kg
Control type	With test button
Number of functions	9

Environment

Dielectric strength	2.5 KV for 1 mA/1 minute at 50 Hz conforming to IEC 61812-1
Standards	IEC 61812-1 IEC 61000-6-1 IEC 61000-6-3 IEC 61000-6-4 IEC 61000-6-2
Directives	2006/95/EC - low voltage directive 2004/108/EC - electromagnetic compatibility
Product certifications	CSA[RETURN]CCC[RETURN]GL[RETURN]cULus[RETURN]EAC[RETURN]CE[RETURN]RCM
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 IP50 front face: conforming to IEC 60529 IP20 terminal block: 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 IE Electrostatic discharge immunity test - test level: 8 kV level 3 (air discharge) conforming to IEC 61 Fast transients immunity test - test level: 1 kV level 3 (capacitive connecting clip) conforming to IE Fast transients immunity test - test level: 2 kV level 3 (direct contact) 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 Radiated radio-frequency electromagnetic field immunity test - test level: 10 V level 3 (0.15...80 M Electromagnetic field immunity test - test level: 10 V/m level 3 (80 MHz...1 GHz) conforming to IE Immunity to microbreaks and voltage drops - test level: 30 % (500 ms) conforming to IEC 61000-4 Immunity to microbreaks and voltage drops - test level: 100 % (20 ms) conforming to IEC 61000-4

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.100 Cm
Package 1 Width	8.900 Cm
Package 1 Length	10.000 Cm
Package 1 Weight	106.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Height	15 Cm
Package 2 Width	30 Cm
Package 2 Length	40 Cm
Package 2 Weight	4.622 Kg
Unit Type of Package 3	P06
Number of Units in Package 3	640
Package 3 Height	70.000 Cm
Package 3 Width	60.000 Cm
Package 3 Length	80.000 Cm
Package 3 Weight	90.709 Kg

Offer Sustainability

Recyclability potential, in %	15
Total lifecycle Carbon footprint	54 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	1.9419230608
Carbon footprint of the manufacturing phase [A1 to A3]	2 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.013085301
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0005675085
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	51.5032
Carbon footprint of the use phase [B2, B3, B4, B6]	52 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.0611498971
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	54
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