



on-delay timing relay -24VDC/24..240 V AC - 2 C/O

Local distributor code: 403001680 RE22R2AMU

Main

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

Complementary		
Contacts type and composition	2 C/O timed contact	
Time delay type	Power on-delay	
Time delay range	110 min 10100 h 110 s 0.11 s 660 s 660 min 110 h	
Control type	Rotary knob front panel	
[Us] rated supply voltage	24240 V AC 24 V DC	
Voltage range	0.851.1 Us	
Supply frequency	5060 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	0.61 N.m conforming to IEC 60947-1	
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	
Control signal pulse width	30 ms 100 ms under load	
Insulation resistance	100 MOhm at 500 V DC conforming to IEC 60664-1	
Recovery 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	
Rated impulse withstand voltage	5 kV for 1.250 μs conforming to IEC 60664-1 5 kV conforming to IEC 61812-1	
Power on delay	100 ms	
Safety reliability data	MTTFd = 182.6 years B10d = 170000	
Mounting position	Any position in relation to normal vertical mounting plane	
Mounting support	35 mm DIN rail conforming to EN/IEC 60715	
Status LED	LED green (flashing) for timing in progress LED green (steady) for power ON LED yellow for relay energised	
Width	22.5 mm	
Net weight	0.09 kg	
Environment		
Dielectric strength	2.5 kV for 1 mA/1 minute at 50 Hz conforming to IEC 61812-1	
Standards	EN 61000-6-3 EN 61000-6-4 EN 61000-6-2 IEC 61812-1 EN 61000-6-1	
Directives	2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive	
Product certifications	cULus CE EAC CSA RCM CCC	
Ambient air temperature for operation	-2060 °C	
Ambient air temperature for storage	-3060 °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= 10150 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 EN/IEC 61000-4-2 Electrostatic discharge immunity test - test level: 8 kV level 3 (air discharge) conforming to EN/IEC 61000-4-2 Fast transients immunity test - test level: 1 kV level 3 (capacitive connecting clip) conforming to IEC 61000-4-4 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 (0.1580 MHz) conforming to IEC 61000-4-6 Electromagnetic field immunity test - test level: 10 V/m level 3 (80 MHz1 GHz) conforming to IEC	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	103.0 g
Package 1 Height	2.6 cm
Package 1 width	8.2 cm
Package 1 Length	9.5 cm
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Weight	4.55 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	

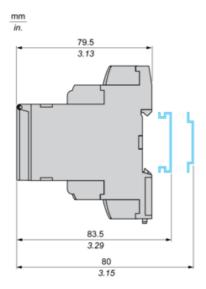
Contractual warranty

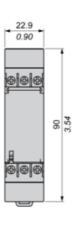
Warranty	18 months	
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RE22R2AMU

Dimensions Drawings

Dimensions

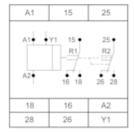




RE22R2AMU

Connections and Schema

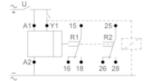
Internal Wiring Diagram



RE22R2AMU

Connections and Schema

Wiring Diagram



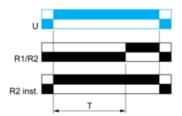
RE22R2AMU

Technical Description

Function A : Power on Delay Relay

Description

The timing period T begins on energization. After timing, the output(s) relay close(s).



2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

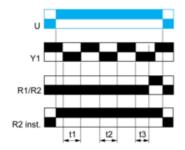
RE22R2AMU

Technical Description

Function At: Power on Delay Relay (Summation) with Control Signal

Description

After power-up, the first opening of control contact Y1 starts the timing. Timing can be interrupted each time control contact closes. When the cumulative total of time periods elapsed reaches the pre-set value T, the output relay closes.



T = t1+t2+t3

Legend

Relay de-energised
Relay energised
Output open
Output closed

Y1 :	Control contact
R1/R2:	2 timed outputs
R2 inst. :	The second output is instantaneous if the right position is selected
T:	Timing period
U:	Supply