# Product data sheet Characteristics

# RE22R2AMU

Harmony, Modular timing relay, 8 A, 2 CO, 0.1 s...100 h, power on delay , 24 V DC / 24...240 V AC/DC





#### Main

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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	5.318.85 lbf.in (0.61 N.m) IEC 60947-1	
Housing material	Self-extinguishing	
Repeat accuracy	+/- 0.5 % IEC 61812-1	
Temperature Drift	+/- 0.05 %/°C	
Voltage drift	+/- 0.2 %/V	
Setting accuracy of time delay	+/- 10 % of full scale 25 °C IEC 61812-1	
Control signal pulse width	30 Ms 100 ms under load	
Insulation resistance	100 MOhm 500 V DC IEC 60664-1	
Recovery time	120 ms on de-energisation	
Immunity to microbreaks	10 ms	
Power consumption in VA	50 VA 240 V AC	
Power consumption in W	0.7 W 24 V DC	
Breaking capacity	2000 VA	
Minimum switching current	10 mA 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 1.250 μs IEC 60664-1	
,	5 kV 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	Green LED flashing)timing in progress Green LED steady)power ON Yellow LEDrelay energised	
Width	0.89 in (22.5 mm)	
Net Weight	0.20 lb(US) (0.09 kg)	

#### Environment

Dielectric strength	2.5 kV 1 mA/1 minute 50 Hz 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 GL	
Ambient Air Temperature for Operation	-4140 °F (-2060 °C)	
Ambient Air Temperature for Storage	-22140 °F (-3060 °C)	
IP degree of protection	Housing IP40 IEC 60529 Terminal block IP20 IEC 60529 Front face IP40 IEC 60529	
Vibration resistance	20 m/s <sup>2</sup> 10150 Hz)IEC 60068-2-6	
Shock resistance	15 gn 11 ms IEC 60068-2-27	
Relative humidity	93 %, without condensation IEC 60068-2-30	
Electromagnetic compatibility	Electrostatic discharge immunity test 6 kV contact discharge)level 3 EN/IEC 61000-4-2 Electrostatic discharge immunity test 8 kV air discharge)level 3 EN/IEC 61000-4-2 Fast transients immunity test 1 kV capacitive connecting clip)level 3 IEC 61000-4-4 Fast transients immunity test 2 kV direct contact)level 3 IEC 61000-4-4 Surge immunity test 1 kV differential mode)level 3 IEC 61000-4-5 Surge immunity test 2 kV common mode)level 3 IEC 61000-4-5 Radiated radio-frequency electromagnetic field immunity test 10 V 0.1580 MHz)level 3 IEC 61000-4-6 Electromagnetic field immunity test 10 V/m 80 MHz1 GHz)level 3 IEC 61000-4-3 Immunity to microbreaks and voltage drops 30 % 500 ms) IEC 61000-4-11 Immunity to microbreaks and voltage drops 100 % 20 ms) IEC 61000-4-11 Conducted and radiated emissionsclass B EN 55022	

# Ordering and shipping details

Category	22376-RELAYS-MEASUREMENT(RM4)
Discount Schedule	CP2
GTIN	3606480676567
Nbr. of units in pkg.	1
Package weight(Lbs)	3.63 oz (103.0 g)
Returnability	No
Country of origin	ID

**Packing Units** 

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Unit Type of Package 1	PCE
Package 1 Height	1.02 in (2.6 cm)
Package 1 width	3.23 in (8.2 cm)
Package 1 Length	3.74 in (9.5 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Weight	10.03 lb(US) (4.55 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

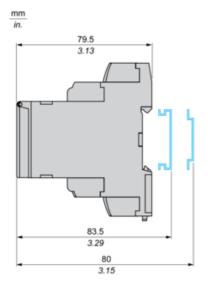
Offer Sustainability

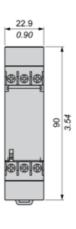
Sustainable offer status	Green Premium product	
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	
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	

# Product data sheet Dimensions Drawings

# RE22R2AMU

### **Dimensions**

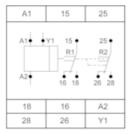




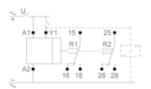
# Product data sheet Connections and Schema

# RE22R2AMU

## Internal Wiring Diagram



## Wiring Diagram

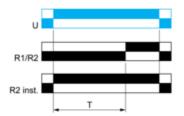


## RE22R2AMU

### Function A: Power on Delay Relay

### Description

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

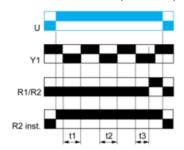


2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

### 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.

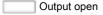


T = t1+t2+t3

### Legend

Relay de-energised

Relay energised



Output 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