## **RE17RMMWS**

Harmony, Modular timing relay, 8 A, 1 CO, 1 s..100 h, multifunction, spring terminals, 12...240 V AC/DC





#### Main

Range of product	Harmony Timer Relays
Product or Component Type	Multifunction relay
Discrete output type	Relay
Width	0.69 in (17.5 mm)
Device short name	RE17R
Time delay type	Power on-delay On-delay and off-delay Interval Off-delay Symmetrical flashing
Time delay range	660 min 660 s 110 min 110 h 0.11 s 10100 h 110 s
Nominal output current	8 A

#### Complementary

Complementary		
Contacts type and composition	1 C/O	
Contacts material	Cadmium free	
Height	3.54 in (90 mm)	
Depth	2.83 in (72 mm)	
Control type	Selector switch front panel	
[Us] rated supply voltage	12240 V AC/DC 50/60 Hz	
Voltage range	0.851.1 Us	
Supply frequency	5060 Hz +/- 5 %	
Release of input voltage	5 V	
Connections - terminals	Spring terminals, 2 x 0.22 x 1.5 mm² AWG 24AWG 16) solid without cable end Spring terminals, 2 x 0.22 x 1.5 mm² AWG 24AWG 16) flexible with cable end	
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	100 ms with load in parallel typical 30 ms typical	
Insulation resistance	100 MOhm 500 V DC IEC 60664-1	
Reset time	120 ms on de-energisation typical	
On-load factor	100 %	
Power consumption in VA	03 VA 240 V AC	
Maximum power consumption in W	1.5 W 240 V DC	
Minimum switching current	10 mA 5 V DC	
Maximum switching current	8 A AC/DC	
Maximum switching voltage	250 V AC	
Breaking capacity	2000 VA	

Operating frequency	10 Hz	
Electrical durability	100000 cycles resistive 8 A 250 V AC	
Mechanical durability	10000000 cycles	
Dielectric strength	2.5 kV 1 mA/1 minute 50 Hz IEC 61812-1	
[Uimp] rated impulse withstand voltage	5 kV 1.2/50 μs	
Power on delay	100 ms	
Marking	CE	
Creepage distance	4 kV/3 IEC 60664-1	
Safety reliability data	MTTFd = 296.8 years B10d = 270000	
Mounting position	Any position in relation to normal vertical mounting plane	
Mounting support	35 mm DIN rail conforming to EN/IEC 60715	
Local signalling	LED indicator on steady: relay energised, no timing in progress LED indicator 80 % ON and 20 % OFF flashing: timing in progress LED indicator 5 % ON and 95 % OFF pulsing: relay de-energised, no timing in progress (except function Di-D, Li-L)	
Product Weight	0.15 lb(US) (0.07 kg)	
Time delay type	A, Ac, At, B, Bw, C, D, Di, H, Ht	
Functionality	Multifunction	
Compatibility code	RE17	

#### Environment

Environment		
Immunity to microbreaks	20 ms	
Standards	2006/95/EC	
	EN 61000-6-4	
	2004/108/EC	
	EN 61000-6-3	
	IEC 61812-1	
	EN 61000-6-2	
	EN 61000-6-1	
Product Certifications	GL	
	CULus	
	CSA	
Ambient Air Temperature for Storage	-22140 °F (-3060 °C)	
Ambient Air Temperature for Operation	-4140 °F (-2060 °C)	
IP degree of protection	IP20 IEC 60529 terminal block)	
•	IP40 IEC 60529 housing)	
	IP50 IEC 60529 front panel)	
Vibration resistance	20 m/s² 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 in contact) level 3 IEC 61000-4-2 Electrostatic discharge immunity test 8 kV in air) level 3 IEC 61000-4-2 Susceptibility to electromagnetic fields 10 V/m 80 MHz to 1 GHz) level 3 IEC 61000-4-3	
	Electrical fast transient/burst immunity test 1 kV capacitive connecting clip) level 3 IEC 61000-4-4	
	Electrical fast transient/burst immunity test 2 kV direct) level 3 IEC 61000-4-4 1.2/50 µs shock waves immunity test 1 kV differential mode) level 3 IEC 61000-4-5	
	1.2/50 µs shock waves immunity test 2 kV common mode) level 3 IEC 61000-4-5 Conducted RF disturbances 10 V 0.1580 MHz) level 3 IEC 61000-4-6 Voltage dips and interruptions immunity test 0 % 1 cycle) IEC 61000-4-11 Voltage dips and interruptions immunity test 70 % 25/30 cycles) IEC 61000-4-11 Conducted and radiated emissionsclass B EN 55022	

#### Ordering and shipping details

Cotogoni	20270 DE DAMICO TIMEDO & COUNTEDO	
Category	22370 - RE, RM MISC TIMERS & COUNTERS	
Discount Schedule	CP2	
GTIN	3606480552779	
Nbr. of units in pkg.	1	
Package weight(Lbs)	2.54 oz (72 g)	
Returnability	No	
Country of origin	ID	

**Packing Units** 

· coming of the	
Unit Type of Package 1	PCE
Package 1 Height	1.06 in (2.7 cm)
Package 1 width	3.07 in (7.8 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	7.35 lb(US) (3.332 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)

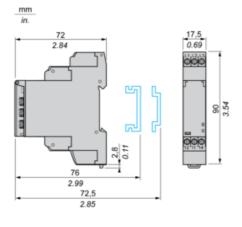
Offer Sustainability

Sustainable offer status	Green Premium product	
California proposition 65	WARNING: This product can expose you to chemicals including: Lead a lead compounds, which is known to the State of California to cause canc 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)	
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

# **RE17RMMWS**

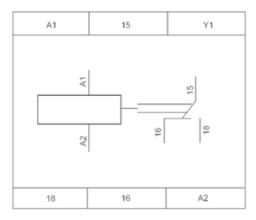
#### Width 17.5 mm



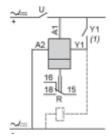
## Product data sheet Connections and Schema

## **RE17RMMWS**

#### Internal Wiring Diagram



#### Wiring Diagram



#### 1) Contact Y1:

- Control for functions B, C, Ac, Bw, Ad, Ah, N, O, W, T, Tt.
- Partial stop for functions At, Ht and Pt.
- Function D if Di selected.
- Not used for functions A, H and P.

# Product data sheet Technical Description

## **RE17RMMWS**

#### Function A: Power on Delay Relay

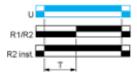
#### Description

The timing period T begins on energisation. After timing, the output(s) R close(s). The second output can be either timed or instantaneous.

#### Function: 1 Output



#### Function: 2 Outputs



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

#### Function Ac: On-Delay & Off-Delay with Control Signal

#### Description

After energisation of power supply and energization of Y1 causes the timing period T to start.

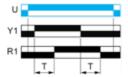
At the end of this timing period, the output(s) R close(s).

When deenergization of Y1, the timing T starts.

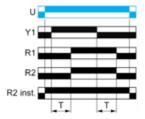
At the end of this timing period T, the output(s) R revert(s) to its/their initial position.

The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

#### Function: 1 Output



#### Function: 2 Outputs

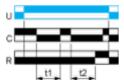


#### Function At: Power on Delay Relay (Summation) with Control Signal

#### Description

After power-up, the first opening of control contact C 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.

#### Function: 1 Output



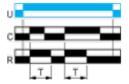
T = t1 + t2 + ...

#### Function B: Interval Relay with Control Signal

#### Description

After power-up, pulsing or maintaining control contact C starts the timing T. The output R closes for the duration of the timing period T then reverts to its initial state.

#### Function: 1 Output

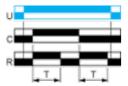


#### Function Bw: Double Interval Relay with Control Signal

#### Description

On closing and opening of control contact C, the output R closes for the duration of the timing period T.

#### Function: 1 Output

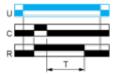


#### Function C: Off-Delay Relay with Control Signal

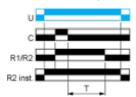
#### Description

After power-up and closing of the control contact C, the output R closes. When control contact C re-opens, timing T starts. At the end of the timing period, the output(s) R revert(s) to its/their initial state. The second output can be either timed or instantaneous.

Function: 1 Output



#### Function: 2 Outputs



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

#### Function D: Symmetrical Flashing Relay (Starting Pulse Off)

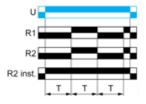
#### Description

On energisation of power supply, output(s) R starts at its/their initial state for timing duration T then change(s) to output(s) R close(s) for the same timing duration T.This cycle is repeated indefintely until power supply removal. Specially for RE17\*, RE22R2AMU, RE22R2MMW, RE22R2MMU, RE22R2MJU, this D function can only be initiated by energizing Y1 permanently. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



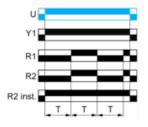
Function: 2 Outputs



Function: 1 Output with Retrigger / Restart Control



Function: 2 Output with Retrigger / Restart Control



Function Di: Symmetrical Flasher Relay (Starting Pulse On)

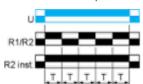
#### Description

Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T. The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



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

#### Function H: Interval Relay

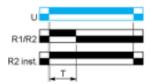
#### Description

On energisation of the relay, timing period T starts and the output(s) R close(s). At the end of the timing period T, the output(s) R revert(s) to its/their initial state. The second output can be either timed or instantaneous.

#### Function: 1 Output



Function: 2 Outputs



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

#### Function Ht: Interval Relay & With Pause / Summation Control

#### Description

On energisation of power supply, output(s) R close(s) and timing period T starts.

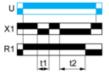
The timing can be interrupted / paused each time X1 energizes.

When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R revert(s) to its/their initial state Reenergization of X1 will also cause output(s) R close(s) if the time has elapsed and restart the same operation as described at the beginning.

Except for RE17\*, RE22R2MMW, RENF22R2MMW, RE22R2MMU and RE22R2MJU, timing can be interrupted / paused each time Y1 energizes.

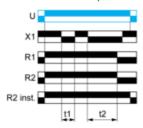
The second output (R2) can be either timed (when set to "TIMED" or instantaneous (when set to "INST").

#### Function: 1 Output



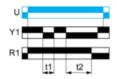
T = t1 + t2 +...

#### Function: 2 Outputs



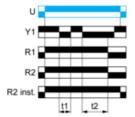
T = t1 + t2 +...

#### Function: 1 Output with Retrigger / Restart Control



T = t1 + t2 + ...

### Function: 2 Outputs with Retrigger / Restart Control



T = t1 + t2 +...

## Legend

Relay de-energised

Relay energised

Output open

Output	closed
	0.000

С	Control contact
G	Gate
R	Relay or solid state output
R1/R2	2 timed outputs
R2 inst.	The second output is instantaneous if the right position is selected
Т	Timing period
Та -	Adjustable On-delay
Tr -	Adjustable Off-delay
U	Supply

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