## Product data sheet

Characteristics

RE17RMMW
Modular timing relay, Harmony, 8A, 1CO, $0.1 \mathrm{~s} . .100 \mathrm{~h}$, multifunction, 12...240V 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 | $2.5 \mathrm{kV} 1 \mathrm{~mA} / 1$ minute 50 Hz IEC 61812-1 |
| [Uimp] rated impulse withstand voltage | $5 \mathrm{kV} \mathrm{1.2/50} \mathrm{\mu s}$ |
| Power on delay | 100 ms |
| Marking | CE |
| Creepage distance | $4 \mathrm{kV/3}$ 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

| Immunity to microbreaks | 20 ms |
| :---: | :---: |
| Standards | 2006/95/EC <br> EN 61000-6-3 <br> IEC 61812-1 <br> EN 61000-6-2 <br> EN 61000-6-1 <br> 2004/108/EC <br> EN 61000-6-4 |
| Product Certifications | CSA GL cULus |
| Ambient Air Temperature for Storage | $-22 . .140^{\circ} \mathrm{F}\left(-30 . . .60^{\circ} \mathrm{C}\right)$ |
| Ambient Air Temperature for Operation | $-4 . . .140{ }^{\circ} \mathrm{F}\left(-20 \ldots 60^{\circ} \mathrm{C}\right)$ |
| IP degree of protection | IP20 IEC 60529 terminal block) <br> IP40 IEC 60529 housing) <br> IP50 IEC 60529 front panel) |
| Vibration resistance | $20 \mathrm{~m} / \mathrm{s}^{2} 10 \ldots 150 \mathrm{~Hz}$ )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 <br> Susceptibility to electromagnetic fields $10 \mathrm{~V} / \mathrm{m} 80 \mathrm{MHz}$ to 1 GHz ) level 3 IEC 61000-4-3 <br> Electrical fast transient/burst immunity test 1 kV capacitive connecting clip) level 3 IEC 61000-4-4 <br> Electrical fast transient/burst immunity test 2 kV direct) level 3 IEC 61000-4-4 <br> $1.2 / 50 \mu \mathrm{~s}$ shock waves immunity test 1 kV differential mode) level 3 IEC 61000-4-5 <br> $1.2 / 50 \mu \mathrm{~s}$ shock waves immunity test 2 kV common mode) level 3 IEC 61000-4-5 Conducted RF disturbances $10 \mathrm{~V} 0.15 \ldots 80 \mathrm{MHz}$ ) 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

| Category | 22370-RE, RM MISC TIMERS \& COUNTERS |
| :--- | :--- |
| Discount Schedule | CP2 |
| GTIN | 3606480552762 |
| Returnability | Yes |
| Country of origin | ID |
| 2 | Lifels On $\mid$ Scheneider |
| 2 |  |

Packing Units

| Unit Type of Package 1 | PCE |
| :--- | :--- |
| Number of Units in Package 1 | 1 |
| Package 1 Height | $1.06 \mathrm{in}(2.700 \mathrm{~cm})$ |
| Package 1 Width | $3.15 \mathrm{in}(8.000 \mathrm{~cm})$ |
| Package 1 Length | $3.74 \mathrm{in}(9.500 \mathrm{~cm})$ |
| Package 1 Weight | $2.82 \mathrm{oz}(80.0 \mathrm{~g})$ |
| Unit Type of Package 2 | S 02 |
| Number of Units in Package 2 | 40 |
| Package 2 Height | $5.91 \mathrm{in}(15.000 \mathrm{~cm})$ |
| Package 2 Width | $11.81 \mathrm{in}(30.000 \mathrm{~cm})$ |
| Package 2 Length | $15.75 \mathrm{in}(40.000 \mathrm{~cm})$ |
| Package 2 Weight | $8.23 \mathrm{lb}(\mathrm{US})(3.735 \mathrm{~kg})$ |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 640 |
| Package 3 Height | $29.53 \mathrm{in}(75.000 \mathrm{~cm})$ |
| Package 3 Width | $23.62 \mathrm{in}(60.000 \mathrm{~cm})$ |
| Package 3 Length | $31.50 \mathrm{in}(80.000 \mathrm{~cm})$ |
| Package 3 Weight | $154.32 \mathrm{lb}(\mathrm{US})(70.000 \mathrm{~kg})$ |

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) 圂EU RoHS Declaration |
| Mercury free | Yes |
| China RoHS Regulation | W China RoHS Declaration |
| RoHS exemption information | 㢴Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |




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 $P$.


## 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 Y 1 causes the timing period T to start.
At the end of this timing period, the output(s) R close(s).
When deenergization of Y 1 , 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


## 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

$\mathrm{T}=\mathrm{t} 1+\mathrm{t} 2+\ldots$

## 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 ( R 1 ) and 1 instantaneous output ( R 2 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 X 1 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

$\mathrm{T}=\mathrm{t} 1+\mathrm{t} 2+\ldots$

Function: 2 Outputs

$\mathrm{T}=\mathrm{t} 1+\mathrm{t} 2+\ldots$

Function: 1 Output with Retrigger / Restart Control

$\mathrm{T}=\mathrm{t} 1+\mathrm{t} 2+\ldots$

Function: 2 Outputs with Retrigger / Restart Control

$\mathrm{T}=\mathrm{t} 1+\mathrm{t} 2+\ldots$

Legend

Relay de-energised
Relay energised


Output open
Output closed

| C | 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 |
| T | Timing period |
| Ta - | Adjustable On-delay |
| Tr - | Adjustable Off-delay |
| U | Supply |

