Specifications





single function relay, Harmony Timer Relays, 0.7A, 1s..100h, multifunction, solid state output, 24 to 240V AC

RE17LMBM

Main

aiii	
Range Of Product	Harmony Timer Relays
Product Or Component Type	Modular timing relay
Discrete Output Type	Solid state
Width	0.69 in (17.5 mm)
Component Name	RE17L
Time Delay Type	Power on-delay On-delay and off-delay Interval Off-delay Symmetrical flashing
Time Delay Range	110 s 660 s 660 min 110 h 10100 h 110 min 0.11 s
Nominal Output Current	0.7 A

Complementary

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Control Type	Selector switch front panel
[Us] Rated Supply Voltage	24240 V AC 50/60 Hz
Voltage Range	0.851.1 Us
Supply Frequency	5060 Hz +/- 5 %
Release Of Input Voltage	8 V
Control Signal Pulse Width	0.05 s typical
Insulation Resistance	100 MOhm 500 V DC IEC 60664-1
[Uimp] Rated Impulse Withstand Voltage	5 kV 1.2/50 µs
Power On Delay	100 ms
Connections - Terminals	Screw terminals, 1 x 0.51 x 3.3 mm ² AWG 20AWG 12) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm ² AWG 20AWG 14) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm ² AWG 24AWG 14) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm ² AWG 24AWG 16) flexible with cable end
Tightening Torque	5.318.85 lbf.in (0.61 N.m) IEC 60947-1
Dielectric Strength	2.5 kV 1 mA/1 minute 50 Hz IEC 61812-1
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
Reset Time	350 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
Breaking Capacity	0.5 A AC UL 0.7 A AC 68 °F (20 °C)
Operating Frequency	10 Hz
Maximum Output Current	20 A
Minimum Switching Current	10 mA
Maximum Leakage Current	5 mA
Maximum Switching Voltage	250 V AC
Maximum Voltage Drop	<4 V 3-wire <8 V 2-wire
Electrical Durability	10000000 cycles
Marking	CE
Creepage Distance	4 kV/3 IEC 60664-1
Safety Reliability Data	MTTFd = 353.8 years B10d = 320000
Mounting Position	Any position in relation to normal vertical mounting plane
Mounting Support	35 mm DIN rail IEC 60715
Function Available	 A- Power on-delay relay-1 solid state output Ac- On-delay and off-delay relay w/ control signal-1 solid state output At- Power on-delay relay w/ pause/summation (Y1)-1 solid state output B- Single interval relay w/ control signal-1 solid state output Bw- Double interval relay w/ control signal-1 solid state output C- Off-delay relay w/ control signal-1 solid state output D- Symmetrical flashing relay (starting pulse-off)-1 solid state output Di Symmetrical flashing relay (starting pulse-on)-1 solid state output H- Interval relay-1 solid state output Ht- Interval relay w/ pause/summation (Y1)-1 solid state output
Control Type	Without test button
Net Weight	0.15 lb(US) (0.068 kg)
Time Delay Type	A, Ac, At, B, Bw, C, D, Di, H, Ht
Functionality	Multifunction
Number Of Functions	10
Compatibility Code	RE17

Environment

Immunity To Microbreaks	20 ms
Derating Factor	5 mA/°C

Standards	2004/108/EC IEC 61000-6-2 IEC 61812-1 IEC 61000-6-4 IEC 61000-6-1 2006/95/EC IEC 61000-6-3
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 Conducted RF disturbances 10 V 0.1580 MHz) level 3 IEC 61000-4-6 Voltage dips and interruptions immunity test 70 % 25/30 cycles) IEC 61000-4-11 Conducted and radiated emissionsclass B EN 55022

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.10 in (2.8 cm)
Package 1 Width	3.07 in (7.8 cm)
Package 1 Length	3.70 in (9.4 cm)
Package 1 Weight	2.54 oz (72.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	40
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	7.10 lb(US) (3.222 kg)

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



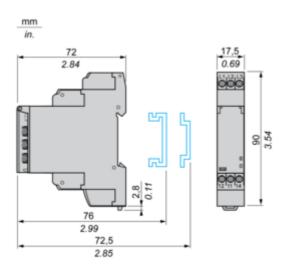
Rohs Exemption Information

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

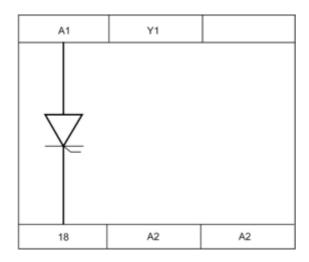
Dimensions Drawings

Width 17.5 mm

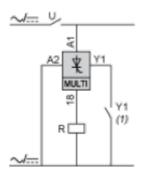


Connections and Schema

Internal Wiring Diagram



Wiring Diagram



(1) Contact Y1:

- Control for functions B, C, Ac, Bw.
- Partial stop for functions At, Ht.
 Function D if Di selected.
- Not used for functions A and H.

Technical Description

Function A : Power on Delay Relay

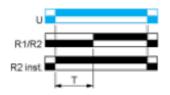
Description

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

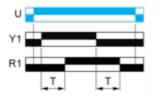


Function Ac: On-Delay & Off-Delay with Control Signal

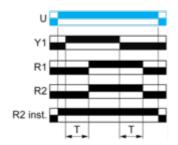
Description

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



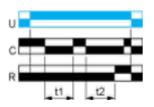
RE17LMBM

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



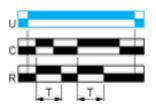
T = t1 + t2 +...

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

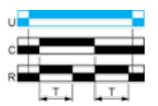


Function Bw : Double Interval Relay with Control Signal

Description

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

Function: 1 Output

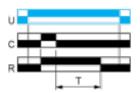


Function C : Off-Delay Relay with Control Signal

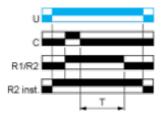
Description

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

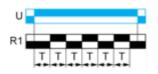


Function D: Symmetrical Flashing Relay (Starting Pulse Off)

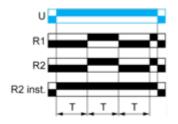
Description

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 indefinitely 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").

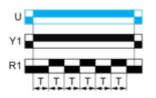
Function: 1 Output



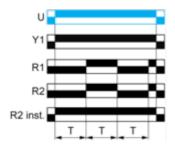
Function: 2 Outputs



Function: 1 Output with Retrigger / Restart Control



Function: 2 Output with Retrigger / Restart Control



Function Di : Symmetrical Flasher Relay (Starting Pulse On)

Description

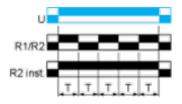
Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T.

The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



Function H : Interval Relay

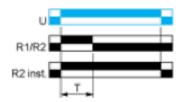
Description

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



Function Ht: Interval Relay & With Pause / Summation Control

Description

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

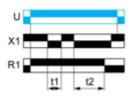
The timing can be interrupted / paused each time X1 energizes.

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.

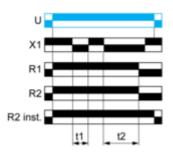
The second output (R2) can be either timed (when set to "TIMED" or instantaneous (when set to "INST").

Function: 1 Output



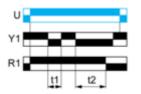


Function: 2 Outputs



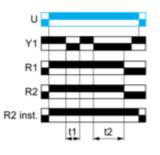


Function: 1 Output with Retrigger / Restart Control



T = t1 + t2 + ...

Function: 2 Outputs with Retrigger / Restart Control



T = t1 + t2 +...

Legend

Relay de-energised Relay energised		
Output open Output closed		
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	
т	Timing period	
Ta -	Adjustable On-delay	
Tr -	Adjustable Off-delay	
U	Supply	