

Harmony Timer Relays

Near Field Communication and conventional Timer Relays

Definitions (continued)

Main timing functions	Complementary functions (1)	Definitions
N		Safe-guard relay
O		Delayed Safe-guard relay
P		Pulse delayed relay with fixed pulse length
	Pt	Pulse delayed relay with fixed pulse length and pause/summation control signal
Q		Star-delta relay (2 NO outputs with same common)
	Qc	Star-delta relay (1 CO output)
	Qe	Star-delta relay (1 NC + 1 NO outputs with split common)
	Qg	Star-delta relay (2 CO outputs with same common)
	Qgt	Star-delta relay (2 CO outputs with same common) with pause/summation control signal
	Qt	Star-delta relay (2 CO outputs with split common)
	Qtt	Star-delta relay (2 CO outputs with split common) with pause/summation control signal
T	TI	Bistable relay with control signal on
	Tt	Retriggerable bistable relay with control signal on
W		Interval relay with control signal off
	Wt	Interval relay with control signal off and pause/summation control signal

Selection table

Selection criteria

- **Functions** (on-delay or off-delay, counter, flashing, etc.)
- **Supply voltage** (example: $\approx 12\text{ V} \dots 240\text{ V}$)
- **Timing range** for a timing relay (for example; 0.05 s... 100 h)
- **Type of output** (contact or solid state) and required **Number of contacts**
- **Rated current** or **Breaking capacity** of contacts, expressed in Amperes. This is the maximum current that may flow through the contacts.

Functions	Timing range	Supply voltage	Type of output	Rated current	Relay
A	0.1 s...100 h	$\text{---} 12\text{ V}$	2 CO contacts	5 A	REXL2TMJD
			4 CO contacts		
		$\text{---} 24\text{ V}$	2 CO contacts		REXL2TMBD
			4 CO contacts		REXL4TMBD
		$\sim 24\text{ V}$	2 CO contacts		REXL2TMB7
			4 CO contacts		REXL4TMB7
		$\sim 120\text{ V}$	2 CO contacts		REXL2TMF7
			4 CO contacts		REXL4TMF7
		$\sim 230\text{ V}$	2 CO contacts		REXL2TMP7
			4 CO contacts		REXL4TMP7
A, Ac, At, B, Bw, C, D, Di, H, Ht	0.1 s...100 h	$\approx 24 \dots 240\text{ V}$	1 solid state output	0.7 A	RE17LAMW
					RE17LAMWS
		$\approx 24 \dots 240\text{ V}$	2 CO contacts	5 A	RE48ATM12MW
		$\approx 12\text{ V}$	1 CO contact	8 A	RE17RMJU
					RE17RMMW
		$\approx 12 \dots 240\text{ V}$			RE17RMMWS
					RE17RMMU
		$\text{---} 24\text{ V} / \sim 24 \dots 240\text{ V}$			RE17RMMUS
A, Ac, At, B, Bw, C, D, Di, H, Ht	0.1 s...100 h	$\approx 12\text{ V}$	2 CO contacts		RE22R2MMU
					RE22R2MJU
		$\approx 12 \dots 240\text{ V}$			RE22R2MMW
		$\approx 12\text{ V}$			
		$\approx 12 \dots 240\text{ V}$			
		$\approx 12\text{ V}$			

(1) Complementary functions enhance the main timing functions.
Example: **Ac**: timing after closing and opening of control contact.

Note: References ending with "S" are spring terminals; references without "S" are screw terminals.

Example: RE17LAMWS is timing relay with spring terminal and RE17LAMW is timing relay with screw terminal

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Modular timing relays, solid state or relay output, width 17.5 mm/0.689 in.

Solid state output

- Multifunction, dual function, or single function
- Multi-range (7 selectable ranges)
- Multivoltage
- Solid state output: 0.7 A
- Screw and spring terminals



RE17LAMW



RE17LCBMS

Relay output, 1 CO contact

- Dual function or single function
- Multi-range (7 selectable ranges)
- Multivoltage
- 1 relay output: 8 A
- Screw and spring terminals
- State indication by 1 LED
- Option of supplying a load in parallel
- 3-wire sensor control option



RE17RAMU



RE17RMMWS

2 CO contacts

- Multifunction
- Multiple timing ranges
- Multivoltage
- 2 relay outputs: 8 A - 250 V
- Screw terminals
- State indication by LED
- Option of supplying a load in parallel
- 3-wire sensor control option



RENF22R2MMW

Modular timing relays with solid state output

Single function

Timing ranges	Functions	Voltages V	Reference	Weight kg/lb
1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A	~ 24...240	RE17LAMW RE17LAMWS	0.060/0.132 0.050/0.110
	H	~ 24...240	RE17LHBM	0.060/0.132
	C	~ 24...240	RE17LCBM RE17LCBMS	0.060/0.132 0.050/0.110

Dual function

1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	L, Li	~ 24...240	RE17LLBM RE17LLBMS	0.060/0.132 0.050/0.110
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Multifunction

1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A, At, B, C, H, Ht, D, Di, Ac, Bw	~ 24...240	RE17LMBM	0.060/0.132
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Modular timing relays with relay output

Single function

Timing ranges	Functions	Voltages V	Reference	Weight kg/lb
1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	B	~ 24/~ 24...240	RE17RBMU	0.070/0.154
	C	~ 24/~ 24...240	RE17RCMU RE17RCMUS	0.070/0.154 0.060/0.132

Dual function

1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A, At	~ 24/~ 24...240	RE17RAMU RE17RAMUS	0.070/0.154 0.060/0.132
	H, Ht	~ 24/~ 24...240	RE17RHMU RE17RHMUS	0.070/0.154 0.060/0.132
	L, Li	~ 24/~ 24...240	RE17RLMU RE17RLMUS	0.070/0.154 0.060/0.132
		~ 12	RE17RLJU	0.070/0.154

Multifunction

1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A, At, B, C, H, Ht, D, Di, Ac, Bw	~ 12	RE17RMJU	0.070/0.154
		~ 24/~ 24...240	RE17RMMU RE17RMMUS	0.070/0.154 0.060/0.132
		~ 12...240	RE17RMMW RE17RMMWS	0.070/0.154 0.060/0.132
	Ad, Ah, N, O, P, Pt, Ti, Tt, W	~ 24/~ 24...240	RE17RMXMU RE17RMXMUS	0.070/0.154 0.060/0.132
	A, At, B, C, H, Ht, D, Di	~ 24/~ 24...240	RE17RMEMU RE17RMEMUS	0.070/0.154 0.060/0.132

NFC Timing relays with relay output

Multifunction

Timing ranges	Functions	No. of relay outputs	Voltages V	Reference	Weight kg/lb
0.1 s to 999 h	A, Ac, Ad, Ah, Ak, At, B, Bw, C, D, Di, Dt, Di, H, Ht, L, Li, Lt, Lit, N, O, P, Pt, Qt, Qtt, Ti, Tt, W	2	~ 24...240	RENF22R2MMW	0.0904/0.1993

Note: References ending with "S" are spring terminals; references without "S" are screw terminals.

Example: RE17LAMWS is timing relay with spring terminal and RE17LAMW is timing relay with screw terminal