Productinformatieblad

Specificaties

vertragingstijdrelais 10 functies - 1 s..100 h - 12 V AC/DC - 1 OC

RE17RMJU

Hoofdkenmerken

productgamma	Harmony-timerrelais
discreet uitgangstype	Relais
type product of component	Modulaire tijdrelais
breedte	17,5 mm
korte naam apparaat	RE17R
type tijdvertraging	Vertraging bij inschakeling Vertraging bij in- en uitschakelen Interval Vertraging bij uitschakeling Symmetrisch knipperend
bereik tijdvertraging	1...10 s 6...60 s 10...100 H 1...10 min 1...10 H 0.1...1 s 6...60 min
nominale uitgangsstroom	8 A

Complementaire kenmerken

type en samenstelling contact	1 C/O
legering contacten	Cadmiumvrij
hoogte	90 mm
diepte	72 mm
type bediening	Keuzeschakelaar frontpaneel
[Us] nominale voedingsspanning	12 V AC/DC 50/60 Hz
spanningsbereik	0.9...1.2 Us
voedingsfrequentie	50...60 Hz +/- 5 %
losser van input spanning	5 V
aansluitingen - klemmen	Schroefklemmen, 1 x 0.5...1 x 3.3 mm² (AWG 20...AWG 12) rigide zonder kabelhuls Schroefklemmen, 2 x 0.5...2 x 2.5 mm² (AWG 20...AWG 14) rigide zonder kabelhuls Schroefklemmen, 1 x 0.2...1 x 2.5 mm² (AWG 24...AWG 14) flexibel met kabelhuls Schroefklemmen, 2 x 0.2...2 x 1.5 mm² (AWG 24...AWG 16) flexibel met kabelhuls
aandraaimoment	0,6…1 N.m conform IEC 60947-1
materiaal behuizing	Zelf dovend
herhalingsnauwkeurigheid	+/-0,5% conform IEC 61812-1
temperatuurafwijking	+/- 0,05%/°C
spanningsverloop	+/- 0,2 %/V

Disclaimer: Deze documentatie is niet bedoeld als vervanging voor en mag niet worden gebruikt voor het bepalen van de geschiktheid of betrouwbaarheid van deze producten voor specifieke gebruikerstoepassingen

instelling nauwkeurigheid tijdsvertraging	+/- 10 % of full scale bij 25 °C conform IEC 61812-1
Time delay type	Vertraging bij inschakeling - A- Vertragingsrelais bij inschakeling Vertraging bij in- en uitschakelen - Ac - Vertragingsinschakeling en uitschakelrelais m/ controlesignaal Vertraging bij inschakeling - Bij- Vertragingsrelais bij inschakeling vermogen m/ pauze/optelling (Y1) Interval - B- Eén intervalrelais met controlesignaal Interval - Bw- Dubbel intervalrelais m/ besturingssignaal Vertraging bij uitschakeling - C- Uit-vertragingsrelais m/ controlesignaal Symmetrisch knipperend - D- Symmetrisch knipperend relais (start pulse-off) Symmetrisch knipperend - Di- Symmetrisch knipperend relais (start puls-on) Interval - H- Intervalrelais Interval - Ht- Intervalrelais m/ pauze/optelling (Y1)
pulsbreedte stuursignaal	100 ms met belasting in parallel typisch 30 ms typisch
isolatieweerstand	100 MOhm bij 500 V DC conform IEC 60664-1
resettijd	120 ms bij de-energisatie typisch
on load factor	100 %
energieverbruik in VA	0…0,7 VA bij 12 V AC
stroomverbruik in W	0,5 W bij 12 V DC
minimale schakelstroom	10 mA bij 5 V DC
maximale schakelstroom	8 A AC/DC
maximale schakelspanning	250 V AC
uitschakelvermogen	2000 VA
bedrijfsfrequentie	10 Hz
elektrische levensduur	100000 cycli voor resistief laden (8 A bij 250 V AC maximum)
mechanische levensduur	10000000 cycli
doorslagvastheid	2,5 kV 1 mA/1 minuut 50 Hz conform IEC 61812-1
[Uimp] nominale stoothoudspanning	5 kV gedurende 1,2/50 µs
vertraging bij inschakeling	100 ms
markering	CE
kruipweg	4 kV/3 conform IEC 60664-1
veiligheid van de betrouwbaarheid data	MTTFd = 296.8 jaar B10d = 270000
montagepositie	Eender welke positie in verhouding tot het normale verticale montagevlak
montagesteun	35 mm DIN rail conform IEC 60715
lokale signalering	LED indicator voor brandt continu: relais van stroom voorzien, geen timing in uitvoering LED indicator 80% ON en 20% OFF voor knippert: timing in uitvoering LED indicator 5% ON en 95% OFF voor pulsing: relais afgevallen. geen timing bezig (met uitz. van functie Di-D. Li-L)
functie beschikbaar	A- Vertragingsrelais bij inschakeling-1 C/O Ac - Vertragingsinschakeling en uitschakelrelais m/ controlesignaal-1 C/O Bij- Vertragingsrelais bij inschakeling vermogen m/ pauze/optelling (Y1)-1 C/O B- Eén intervalrelais met controlesignaal-1 C/O Bw- Dubbel intervalrelais m/ besturingssignaal-1 C/O C- Uit-vertragingsrelais m/ controlesignaal-1 C/O D- Symmetrisch knipperend relais (start pulse-off)-1 C/O Di- Symmetrisch knipperend relais (start puls-on)-1 C/O H- Intervalrelais-1 C/O Ht- Intervalrelais m/ pauze/optelling (Y1)-1 C/O
gewicht product	0,07 kg
type bediening	Zonder testknop

Aantal functies	10
Afgekorte naam van apparaat	A, Ac, At, B, Bw, C, D, Di, H, Ht
functionaliteit	Multifunctioneel
compatibiliteitscode	RE17

Omgeving

immuniteit voor micro-onderbrekingen	20 ms
normen	2006/95/EC 2004/108/EC IEC 61000-6-4 IEC 61000-6-1 IEC 61000-6-3 IEC 61812-1 IEC 61000-6-2
productcertificeringen	CSA GL cULus
omgevingstemperatuur bij opslag	-30…60 °C
omgevingstemperatuur bij werking	-20…60 °C
IP-beschermingsgraad	IP20 conform IEC 60529 (aansluitblok) IP40 conform IEC 60529 (behuizing) IP50 conform IEC 60529 (frontpaneel)
trillingsweerstand	20 m/s² (f= 10…150 Hz) conforming to IEC 60068-2-6
schokbestendigheid	15 gn voor 11 ms conform IEC 60068-2-27
relatieve vochtigheid	93 % zonder condensatie conform IEC 60068-2-30
elektromagnetische compatibiliteit	Elektrostatische ontlading immuniteitstest: testniveau: 6 kV (in contact) , niveau 3 conform IEC 61000-4-2 Elektrostatische ontlading immuniteitstest: testniveau: 8 kV (in lucht) , niveau 3 conform IEC 61000-4-2 Gevoelig aan elektromagnetische velden: testniveau: 10 V/m (80 MHz tot 1 GHz) , niveau 3 conform IEC 61000-4-3 Elektrische snelle transiënte/burst immuniteitstest: testniveau: 1 kV (capacitieve verbindingsclip) , niveau 3 conform IEC 61000-4-4 Elektrische snelle transiënte/burst immuniteitstest: testniveau: 2 kV (rechtstreeks) , niveau 3 conform IEC 61000-4-4 1,2/50 µs schokgolven immuniteitstest: testniveau: 1 kV (differentieelmodus) , niveau 3 conform IEC 61000-4-5 1,2/50 µs schokgolven immuniteitstest: testniveau: 2 kV (gewone modus) , niveau 3 conform IEC 61000-4-5 Geleidende RF verstoringen: testniveau: 10 V (0.15...80 MHz) , niveau 3 conform IEC 61000-4-6 Spanningsval en onderbrekingen immuniteitstest: testniveau: 0 % (1 cyclus) conform IEC 61000-4-11 Spanningsval en onderbrekingen immuniteitstest: testniveau: 70 % (25/30 cycli) conform IEC 61000-4-11 Geleide en uitgestraalde emissies: , klasse B conform EN 55022

Verpakkingseenheden

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2,8 cm
Package 1 Width	8,0 cm
Package 1 Length	9,8 cm
Package 1 Weight	80,0 g
Unit Type of Package 2	S02
Number of Units in Package 2	40

Package 2 Height	15,0 cm
Package 2 Width	30,0 cm
Package 2 Length	40,0 cm
Package 2 Weight	3,475 kg

Contractuële waarborg

Garantie	18 maanden

Environmental Data

Schneider Electric wil tegen 2050 de Net Zero-status hebben bereikt via partnerschappen in de toeleveringsketen, materialen met een lagere impact en circulariteit via onze doorlopende campagne "Use Better, Use Longer, Use Again" om de levensduur van producten en de recycleerbaarheid te verlengen.

Uitleg van Environmental Data >

Hoe evalueren we de duurzaamheid van producten? >

Milieuvoetafdruk

Koolstofvoetafdruk (kg CO2 eq.)	**20**
Milieurapportage	**Milieuprofiel van het product**

Use Better

Materialen en verpakking

Pakket met gerecycleerd karton	**Ja**
Verpakkingen zonder kunststof	**Ja**
RoHS-richtlijn EU	**Pro-actieve naleving (product valt buiten juridisch toepassingsgebied RoHS EU)**
SCIP-nummer	**7bdc2711-0ad2-427c-8ece-532c5e9f09d7**
REACh-regeling	**REACh-verklaring**
RoHS-verordening China	**RoHS-verklaring China**

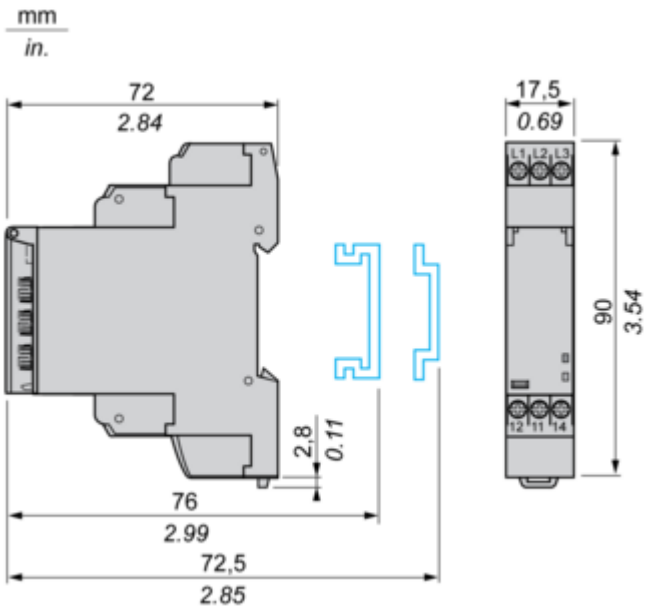
Use Again

Herverpakken en herfabriceren

Circulariteitsprofiel	**Informatie over einde levensduur**
Terugname	**No**

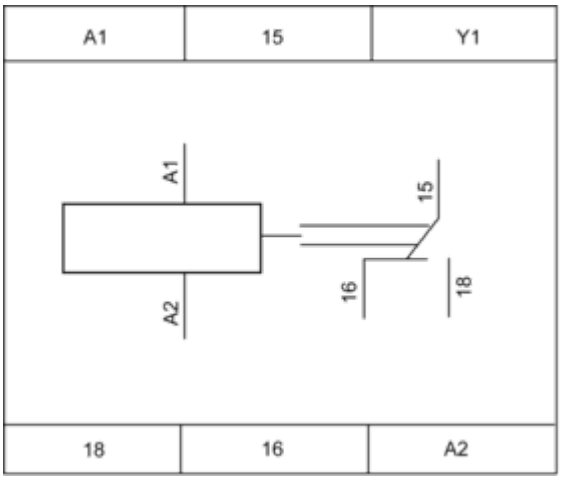
Dimensions Drawings

Width 17.5 mm

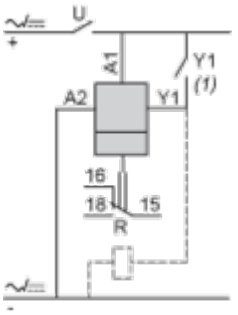


Connections and Schema

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.

Technical Description

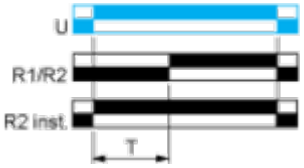
Function A : Power on Delay Relay

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



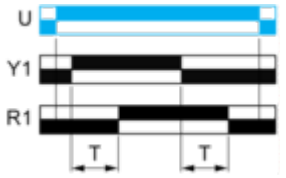
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

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

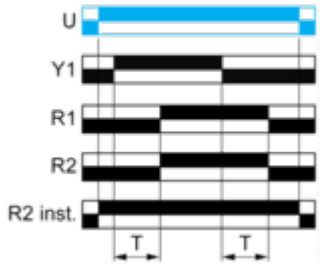
Description

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

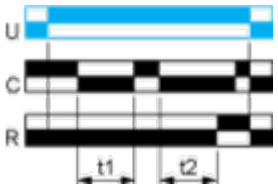


Function At : Power on Delay Relay (Summation) with Control Signal

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.

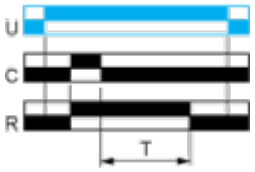
Function: 1 Output

Function C : Off-Delay Relay with Control Signal

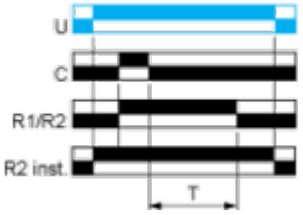
Description

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



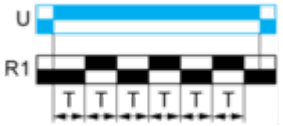
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function D: Symmetrical Flashing Relay (Starting Pulse Off)

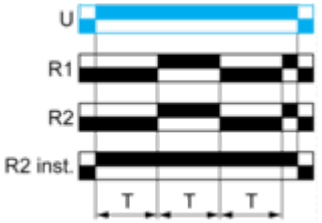
Description

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").

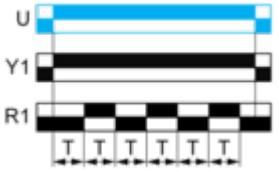
Function: 1 Output



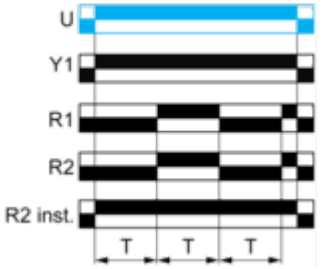
Function: 2 Outputs



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.)

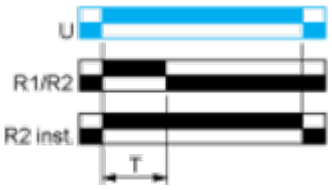
Function H : Interval Relay

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



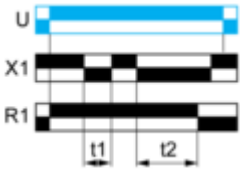
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function Ht: Interval Relay & With Pause / Summation Control

Description

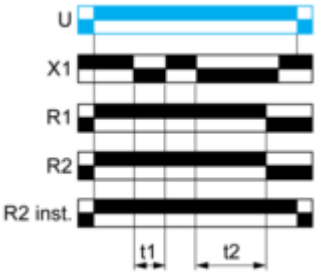
On energisation of power supply, output(s) R close(s) and timing period T starts.
The timing can be interrupted / paused each time X1 energizes.
When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R revert(s) to its/their initial state Reenergization of X1 will 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



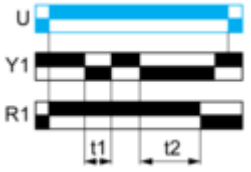
T = t1 + t2 +...

Function: 2 Outputs



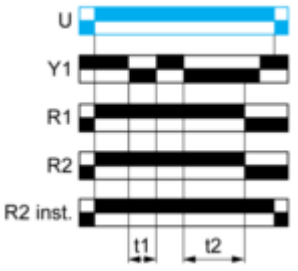
T = t1 + t2 +...

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

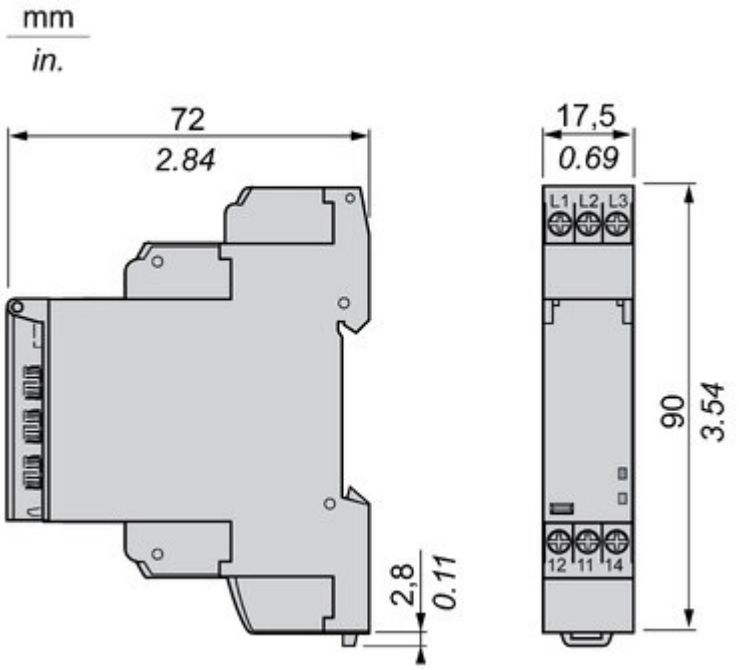
Output open

Output closed

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

Technical Illustration

Dimensions



Offer Marketing Illustration

Product benefits / Features

Offer Marketing Illustration

Product benefits / Features

Image of product / Alternate images

Alternative

A1
15
Y1
A2