

Produktdatablad

Spesifikasjoner



Tidsrelé multifunksjon m/17,5mm bred 0,1s-100t relé utgang 24-240V AC/DC 8A

El-nummer:
4172518 RE17RMJU

EAN: 3606480552748

Produktdata

Produktspekter	Harmony Timer Relays
Digitale utganger	Relé
Produkt eller type komponent	Modular timing relay
Bredde	17,5 mm
Kortnavn på utstyr	RE17R
Tidsforsinkelsestype	Power on-delay On-delay and off-delay Interval Forsinket av Symmetrical flashing
Tidsforsinkelsesområde	1...10 s 6...60 s 10...100 t 1...10 min 1...10 t 0.1...1 s 6...60 min
nominell utgangsstrøm	8 A

Teknisk data

kontakttype og sammensetning	1 C/O
Kontaktmateriale	Cadmium fri
Høyde	90 mm
Dybde	72 mm
start/stopp	Vribryter front panel
[Us] matespenning	12 V AC/DC 50_60_HZ
spenningsområde	0.9...1.2 Us
nettfrekvens	50...60 Hz +/- 5 %
release of input voltage	5 V
tilkoblingsklemmer	Skruklemmer, 1 x 0.5...1 x 3.3 mm² (AWG 20...AWG 12) Solid uten endehylse Skruklemmer, 2 x 0.5...2 x 2.5 mm² (AWG 20...AWG 14) Solid uten endehylse Skruklemmer, 1 x 0.2...1 x 2.5 mm² (AWG 24...AWG 14) fleksibel med endehylse Skruklemmer, 2 x 0.2...2 x 1.5 mm² (AWG 24...AWG 16) fleksibel med endehylse
Tiltrekningsmoment	0,6...1 N.m i samsvar med IEC 60947-1
Kapslingsmateriale	Self-extinguishing
Nøyktighet	+/- 0.5 % i samsvar med IEC 61812-1
temperature drift	+/- 0.05 %/°C
spenningsdrift	+/- 0.2 %/V

Ansvarsfraskrivelse: Dokumentasjonen erstatter ikke opplysninger om produktene, og skal ikke brukes til å fastslå produktenes egnethet eller driftssikkerhet for bestemte bruksområder.

setting accuracy of time delay	+/- 10 % av full skala på 25 °C i samsvar med IEC 61812-1
Time delay type	Power on-delay - A- Power on-delay relay On-delay and off-delay - Ac- On-delay and off-delay relay w/ control signal Power on-delay - At- Power on-delay relay w/ pause/summation (Y1) Interval - B- Single interval relay w/ control signal Interval - Bw- Double interval relay w/ control signal Forsinket av - C- Off-delay relay w/ control signal Symmetrical flashing - D- Symmetrical flashing relay (starting pulse-off) Symmetrical flashing - Di- Symmetrical flashing relay (starting pulse-on) Interval - H- Interval relay Interval - Ht- Interval relay w/ pause/summation (Y1)
control signal pulse width	100 ms med last i parallell typisk 30 ms typisk
Isolasjonsmotstand	100 MOhm på 500 V DC i samsvar med IEC 60664-1
tilbakestillingstid	120 ms on de-energisation typisk
"on-load" -faktor	100 %
strømforbruk i VA	0...0,7 VA på 12 V AC
strømforbruk i W	0,5 W på 12 V DC
minimum brytestrøm	10 mA på 5 V DC
Maximum svitsjestrøm	8 A AC/DC
Maksimum brytespenning	250 V AC
bryteevne	2000 VA
operating frequency	10 Hz
elektrisk levetid	100000 sykluser for Ohmsk last (8 A på 250 V AC maksimum)
Mekanisk levetid	10000000 sykluser
dielektrisk styrke	2,5 kV 1 mA/1 minutt 50 Hz i samsvar med IEC 61812-1
[Uimp] Nominell impulsspenning	5 kV under 1.2/50 µs
power on delay	100 ms
Merking	CE
krypavstand	4 kV/3 i samsvar med IEC 60664-1
sikkerhet pålitelighet data	MTTFd = 296.8 år B10d = 270000
monteringsposisjon	Alle posisjoner i forhold til normalplanet loddrett feste
monteringssupport	35 mm DIN-skinne i samsvar med IEC 60715
lokal varsling	LED indikasjon for on steady: relay energised, no timing in progress LED indikasjon 80% PÅ og 20% OFF for flashing: timing in progress LED indikasjon 5% PÅ og 95% OFF for pulsing: relay de-energised, no timing in progress (except function Di-D, Li-L)
funksjonen tilgjengelig	A- Power on-delay relay-1 C/O Ac- On-delay and off-delay relay w/ control signal-1 C/O At- Power on-delay relay w/ pause/summation (Y1)-1 C/O B- Single interval relay w/ control signal-1 C/O Bw- Double interval relay w/ control signal-1 C/O C- Off-delay relay w/ control signal-1 C/O D- Symmetrical flashing relay (starting pulse-off)-1 C/O Di- Symmetrical flashing relay (starting pulse-on)-1 C/O H- Interval relay-1 C/O Ht- Interval relay w/ pause/summation (Y1)-1 C/O
Vekt	0,07 kg
Kontrolltype	Uten testknappen
Number of functions	10
tidsforsinker type	A, Ac, At, B, Bw, C, D, Di, H, Ht

funksjonalitet	Multifunksjon
Kompatibilitetskode	RE17

Miljø

Immunitet mot mikroavbrytelser	20 ms
Standarder	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
Produktsertifikater	CSA GL cULus
Omgivelsestemperatur for lagring	-30...60 °C
Omgivelsestemperatur drift	-20...60 °C
IP-grad	IP20 i samsvar med IEC 60529 (tilkoplingsblokk) IP40 i samsvar med IEC 60529 (kapsling) IP50 i samsvar med IEC 60529 (frontplate)
Vibrasjonsmotstand	20 m/s² (f= 10...150 Hz) conforming to IEC 60068-2-6
Støtmotstand	15 gn for 11 ms i samsvar med IEC 60068-2-27
relativ fuktighet	93 % uten kondens i samsvar med IEC 60068-2-30
Elektromagnetisk kompatibilitet	Immunitetstest for elektrostatisk utladning: test nivå: 6 kV (i kontakt) nivå 3 i samsvar med IEC 61000-4-2 Immunitetstest for elektrostatisk utladning: test nivå: 8 kV (i luft) nivå 3 i samsvar med IEC 61000-4-2 Mottakelig for elektromagnetiske felt: test nivå: 10 V/m (80 MHz to 1 GHz) nivå 3 i samsvar med IEC 61000-4-3 Electrical fast transient/burst immunity test: test nivå: 1 kV (kapasitiv koble klipp) nivå 3 i samsvar med IEC 61000-4-4 Electrical fast transient/burst immunity test: test nivå: 2 kV (direkte) nivå 3 i samsvar med IEC 61000-4-4 1.2/50 µs sjokkbølge immunisjonstest: test nivå: 1 kV (differensialmodus) nivå 3 i samsvar med IEC 61000-4-5 1.2/50 µs sjokkbølge immunisjonstest: test nivå: 2 kV (felles modul) nivå 3 i samsvar med IEC 61000-4-5 Gjennomført RF-forstyrrelser: test nivå: 10 V (0.15...80 MHz) nivå 3 i samsvar med IEC 61000-4-6 Spenningsfall og avbrudd immunitet test: test nivå: 0 % (en syklus) i samsvar med IEC 61000-4-11 Spenningsfall og avbrudd immunitet test: test nivå: 70 % (25/30 sykkluser) i samsvar med IEC 61000-4-11 Strålt og ledet elektromagnetisme: klasse B i samsvar med EN 55022

Forpakkingsinformasjon

Enhetsstype pakke 1	PCE
Antall enheter i pakke 1	1
Pakke 1 Høyde	2,8 cm
Pakke 1 Bredde	8,0 cm
Pakke 1 Vekt	9,8 cm
Package 1 Weight	80,0 g
Enhetsstype pakke 2	S02
Antall enheter i pakke 2	40
Pakke 2 Høyde	15,0 cm
Pakke 2 Bredde	30,0 cm

Pakke 2 Lengde	40,0 cm
Pakke 2 Vekt	3,475 kg

Logistikkinformasjon

Opprinnelsesland	ID
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Garantiperiode

Garanti	18 måneder
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Environmental Data

Schneider Electric tar sikte på å oppnå Net Zero-status innen 2050 gjennom partnerskap med leverandørkjeden, materialer med lavere slagkraft og sirkularitet via vår pågående "Use Better, Use Longer, Use Again"-kampanje for å forlenge produktlevetiden og resirkulerbarheten.

[Environmental Data forklart >](#)

[Hvordan vi vurderer produktets bærekraft >](#)

 Miljøfotavtrykk	
Samlet klimagassutslipp gjennom livsløpet	20
PEP (Product Environmental Profile)	Produktmiljøprofil

Use Better

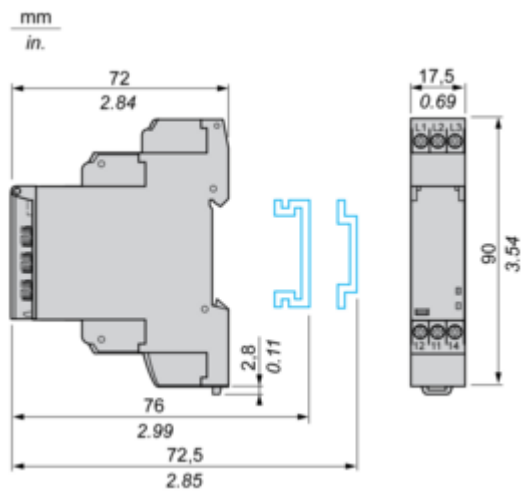
 Materialer og emballasje	
Emballasje med resirkulert papp	Ja
Emballasje uten plast	Ja
EU RoHS-direktiv	Proaktivt i samsvar (Produktet inngår ikke i EUs RoHS direktivet)
SCIP-nummer	7bdc2711-0ad2-427c-8ece-532c5e9f09d7

Use Again

 Ompakking og reproduksjon	
Produktets livssyklus	Informasjon om levetidsslutt
Tilbaketakning	No

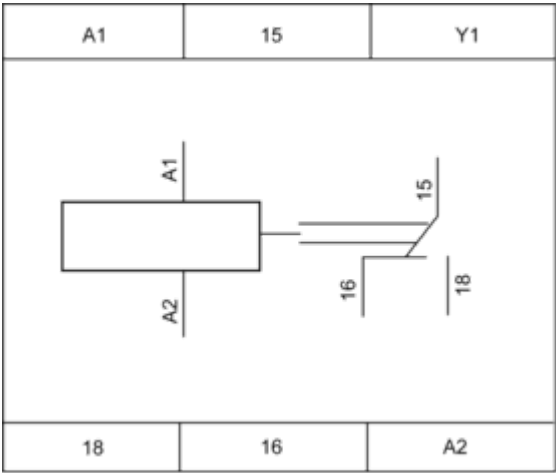
Dimensions Drawings

Width 17.5 mm

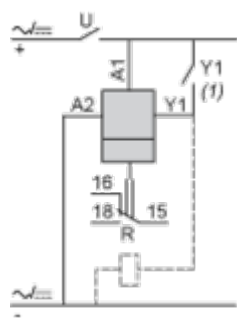


Connections and Schema

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.

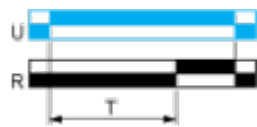
Technical Description

Function A : Power on Delay Relay

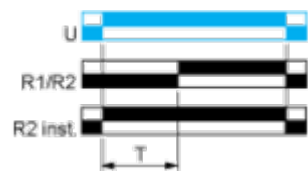
Description

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



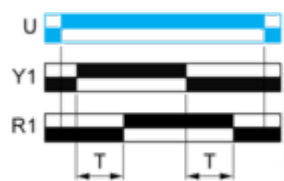
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

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

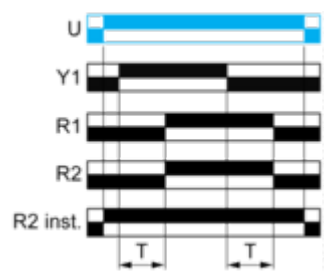
Description

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

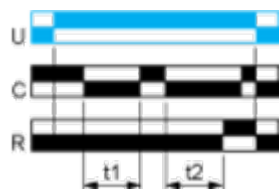


Function At : Power on Delay Relay (Summation) with Control Signal

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



$T = t1 + t2 + \dots$

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

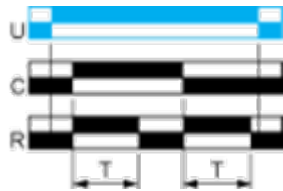


Function Bw : Double Interval Relay with Control Signal

Description

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

Function: 1 Output

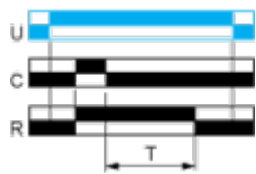


Function C : Off-Delay Relay with Control Signal

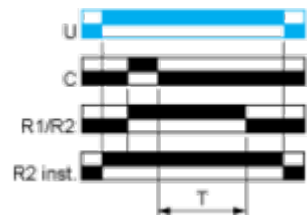
Description

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



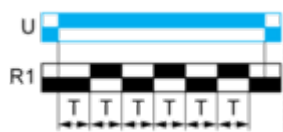
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function D: Symmetrical Flashing Relay (Starting Pulse Off)

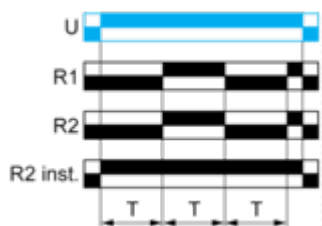
Description

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 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").

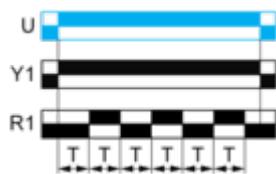
Function: 1 Output



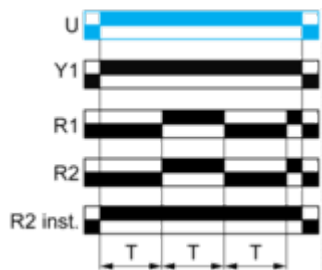
Function: 2 Outputs



Function: 1 Output with Retrigger / Restart Control



Function: 2 Output with Retrigger / Restart Control

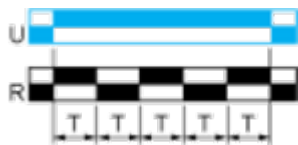


Function Di : Symmetrical Flasher Relay (Starting Pulse On)

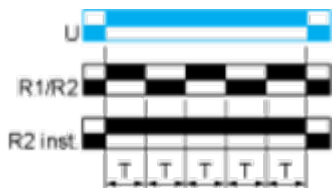
Description

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



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

Function H : Interval Relay

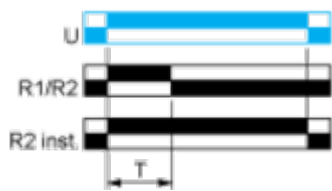
Description

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



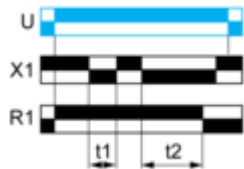
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function Ht: Interval Relay & With Pause / Summation Control

Description

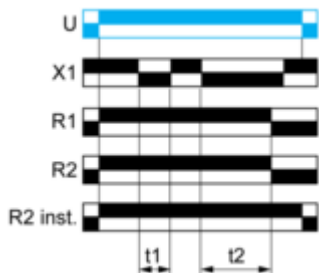
On energisation of power supply, output(s) R close(s) and timing period T starts.
The timing can be interrupted / paused each time X1 energizes.
When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R revert(s) to its/their initial state
Reenergization of X1 will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



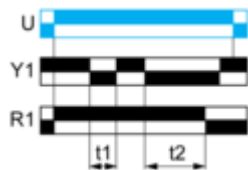
$T = t1 + t2 + \dots$

Function: 2 Outputs



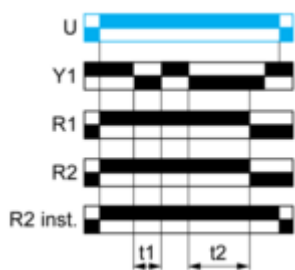
$T = t1 + t2 + \dots$

Function: 1 Output with Retrigger / Restart Control



$T = t1 + t2 + \dots$

Function: 2 Outputs with Retrigger / Restart Control



$T = t1 + t2 + \dots$

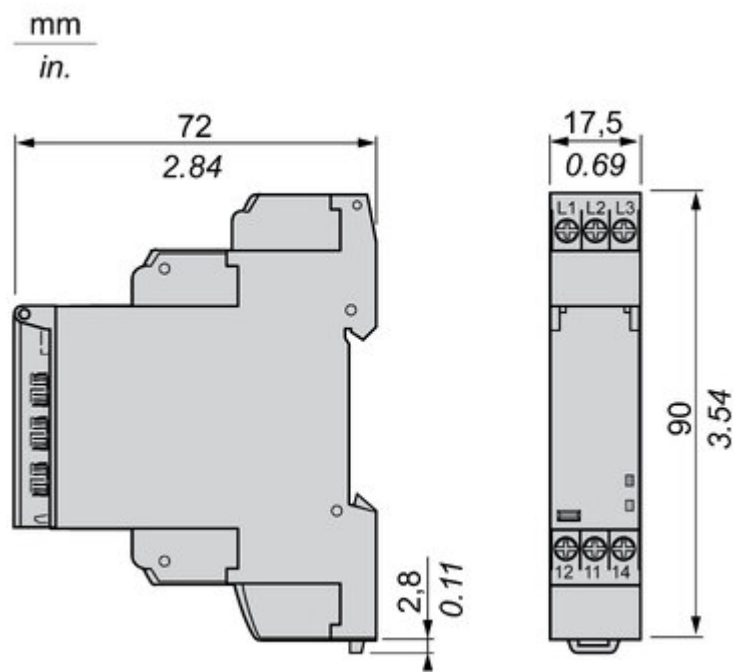
Legend

	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

Technical Benefits

Harmony Timer Relay

Flexible choice of screw or spring connection terminals for wiring.

One product reference covering 28 timing functions, 2 outputs, and a wide range of supply voltage 24...240 V AC/DC.

Dust and unintended human intervention avoided thanks to the IP50 lead-sealable settings protection cover.

A Dial-Pointer LED indicator that enhances ease of operation in difficult environments such as dusty or low-light conditions

Different mounting style to meet your preference:
DIN rail mount with product width:
17.5 mm/0.69 in.
22.5 mm/0.88 in.
Plug in mounting with socket



Offer Marketing Illustration

Product benefits / Features

Features

Harmony Timer Relay



"Diagnostic button" to check downstream circuit immediately, shorten the commission and troubleshooting time



Compatible with a wide range of applications including machines, buildings, water segments, and HVAC.



Wide range of time delay for adjustment: from 0.01 s to 999 hrs.



Compliant with IEC 60255-1 standard, and a wide array of product certifications such as UL, CE, CSA, EAC.



Unprecedented accuracy, predictive maintenance, and superior security.



Image of product / Alternate images

Alternative







Image of product in real life situation

