Produktdatablad

Specifikationer

Harmony tidsrelæ 22,5 mm med 18 funktioner (0,1 Sek-300 Timer) med 2 C/O relæudgange på 8A og 24-240VAC/DC

El-nr.:

7523006908 RE22R2MYMR

EAN-nr: 3606480792533

Egenskaber

Produktserie	Harmony Timer Relays
digital udgangstype	Relæ
Produkttype	Modular timing relay
Enhedsforkortelse	RE22
Nominel udgangsstrøm	8 A

Produktinformationer

kontaktype og sammensætning	1 C/O timed or instantaneous contact, cadmium free 2 C/O timed contact, cadmium free
Tidsforsinkelsestype	Power on-delay Off-tidsforsinket Symmetrical flashing Interval Star-delta
Tidsforsinkelse	3...30 min 30...300 min 0.3...3 s 3...30 h 10...100 s 1...10 s 0.05...1 s 30...300 s 30...300 h 3...30 s
betjening	Drejegreb Diagnostic button Potentiometer external
[Us] forsyningsspænding	24...240 V AC/DC 50/60 Hz
Release input voltage	<= 2.4 V
Spændingsområde	0.85...1.1 Us
tilslutningsfrekvens	50...60 Hz +/- 5 %
tilslutningsklemmer	Skrueterminaler, 1 x 0.5...1 x 3.3 mm² (AWG 20...AWG 12) stiv Uden kabeltylle Skrueterminaler, 2 x 0.5...2 x 2.5 mm² (AWG 20...AWG 14) stiv Uden kabeltylle Skrueterminaler, 1 x 0.2...1 x 2.5 mm² (AWG 24...AWG 14) Fleksibel Med kabeltylle Skrueterminaler, 2 x 0.2...2 x 1.5 mm² (AWG 24...AWG 16) Fleksibel Med kabeltylle
Tilspændingsmoment	0,6…1 N.m i henhold til IEC 60947-1
Kapslingsmateriale	Self-extinguishing
gentagelsesnøjagtighed	+/- 0.5 % i henhold til IEC 61812-1
Temperaturdrift	+/- 0.05 %/°C
Spændingsdrift	+/- 0.2 %/V

indstillingsnøjagtighed for tidsforsinkelse	+/- 10 % af fuld skala ved "25 °C" i henhold til IEC 61812-1
Time delay type	Power on-delay - A- Power on-delay relay Power on-delay - At- Power on-delay relay w/ pause/summation (X1) Power on-delay - Aw- Power on-delay relay w/ retrigger/restart Off-tidsforsinket - C- Off-delay relay w/ control signal Off-tidsforsinket - Ct- Off-delay relay w/ control signal and pause/summation Symmetrical flashing - D- Symmetrical flashing relay (starting pulse-off) Symmetrical flashing - Dt- Symmetrical flashing relay (starting pulse-off) w/ pause/summation (X1) Symmetrical flashing - Dw- Symmetrical flashing relay (starting pulse-off) w/ retrigger/restart Symmetrical flashing - Di- Symmetrical flashing relay (starting pulse-on) Symmetrical flashing - Dit- Symmetrical flashing relay (starting pulse-on) w/ pause/summation (X1) Symmetrical flashing - Diw- Symmetrical flashing relay (starting pulse-on) w/ retrigger/restart Interval - H- Interval relay Interval - Ht- Interval relay w/ pause/summation (X1) Interval - Hw- Interval relay w/ retrigger/restart Star-delta - Qg- Star-delta relay (2 CO outputs w/ same common) Star-delta - Qgt- Star-delta relay (2 CO outputs w/ same common) w/ pause/summation Star-delta - Qt- Star-delta relay (2 CO outputs w/ split common) Star-delta - Qtt- Star-delta relay (2 CO outputs w/ split common) w/ pause/summation (X1) Interval - W- Interval relay w/ control signal off Interval - Wt- Interval relay w/ control signal off and pause/summation
Control signal pulse width	100 milisekund med load in parallel 30 milisekund
isolationsmodstand	100 MOhm ved 500 V DC i henhold til IEC 60664-1
Recovery time	120 milisekund På afbrydelse af forsyning
imunitet over for microafbrydelser	10 milisekund
effektforbrug i VA	3 VA ved 240 V AC
effektforbrug i W	1,5 W ved 240 V DC
Koblingevne i VA	2000 VA
Mindste sluttestrøm	10 mA ved 5 V DC
Maksimal sluttestrøm	8 A
masimal spænding	250 V AC
elektrisk holdbarhed	100000 kredsløb, 8 A ved 250 V, AC-1 100000 kredsløb, 2 A ved 24 V, "DC-1"
Mekanisk holdbarhed	10000000 kredsløb
Rated impulse withstand voltage	5 kV til 1,2…50 mikrosekund i henhold til IEC 60664-1
Power on delay	100 milisekund
creepage distance	"4 kV/3" i henhold til IEC 60664-1
Overspændingskategori	III conforming to IEC 60664-1
sikkerhedsdata	B10d = 160000 MTTFd = 171.2 år
mounting position	Any position
Montagevejledning	35 mm DIN skinne i henhold til "IEC 60715"
status LED	Grøn LED backlight (fast) til dial pointer indication Gul LED (fast) til output relay energised Gul LED (fast flashing) til timing in progress and output relay de-energised Gul LED (slow flashing) til timing in progress and output relay energised

funktion tilgængelig	A- Power on-delay relay-2 C/O At- Power on-delay relay w/ pause/summation (X1)-2 C/O Aw- Power on-delay relay w/ retrigger/restart-2 C/O C- Off-delay relay w/ control signal-2 C/O Ct- Off-delay relay w/ control signal and pause/summation-2 C/O D- Symmetrical flashing relay (starting pulse-off)-2 C/O Dt- Symmetrical flashing relay (starting pulse-off) w/ pause/summation (X1)-2 C/O Dw- Symmetrical flashing relay (starting pulse-off) w/ retrigger/restart-2 C/O Di- Symmetrical flashing relay (starting pulse-on)-2 C/O Dit- Symmetrical flashing relay (starting pulse-on) w/ pause/summation (X1)-2 C/O Diw- Symmetrical flashing relay (starting pulse-on) w/ retrigger/restart-2 C/O H- Interval relay-2 C/O Ht- Interval relay w/ pause/summation (X1)-2 C/O Hw- Interval relay w/ retrigger/restart-2 C/O Qg- Star-delta relay (2 CO outputs w/ same common)-2 C/O Qgt- Star-delta relay (2 CO outputs w/ same common) w/ pause/summation-2 C/O Qt- Star-delta relay (2 CO outputs w/ split common)-2 C/O Qtt- Star-delta relay (2 CO outputs w/ split common) w/ pause/summation (X1)-2 C/O W- Interval relay w/ control signal off-2 C/O Wt- Interval relay w/ control signal off and pause/summation-2 C/O
bredde	22,5 mm
Vægt	0,105 kg
Type af betjening	With test button
Number of functions	22

Miljø

dielektrisk gennemslagsholdbarhed	2,5 kV til 1 mA/1 minut ved 50 Hz mellem relay output and power supply med basic insulation i henhold til IEC 61812-1
Standarder	UL 508 IEC 61812-1
Direktiver	2004/108/EC - elektromagnetisk kompatibilitet 2006/95/EC - lavspændingsdirektiv
Produktcertificeringer	RCM CE EAC CSA CCC UL GL
Omgivelsestemperatur under drift	-20…60 °C
Omgivelsestemperatur ved opbevaring	-40…70 °C
IP kapslingsklasse	IP40 hus: conforming to IEC 60529 IP20 terminaler: conforming to IEC 60529 IP50 front panel: conforming to IEC 60529
Forureningsgrad	3 i henhold til IEC 60664-1
Vibrationsmodstand	"20 m/s²" (f= 10…150 Hz) conforming to IEC 60068-2-6
chokmodstand	15 gn ikke aktiv til 11 milisekund i henhold til IEC 60068-2-27 5 gn aktiv til 11 milisekund i henhold til IEC 60068-2-27
Relativ fugtighed	95 % ved 25…55 °C

Elektromagnetisk kompatibilitet	Fast transients immunity test - test level: 1 kV Level 3 (capacitive connecting clip) conforming to IEC 61000-4-4 Surge immunity test - test level: 1 kV Level 3 (Differential tilstand) conforming to IEC 61000-4-5 Surge immunity test - test level: 2 kV Level 3 (Almindelig tilstand) conforming to IEC 61000-4-5 Elektrostatisk afladning - test level: 6 kV Level 3 (kontaktafledning) conforming to IEC 61000-4-2 Elektrostatisk afladning - test level: 8 kV Level 3 (luftafladning) conforming to IEC 61000-4-2 Radiated radio-frekvens electromagnetic field immunity test - test level: 10 V/m Level 3 (80 MHz...1 GHz) conforming to IEC 61000-4-3 Udledt RF forstyrelser - test level: 10 V Level 3 (0.15...80 MHz) conforming to IEC 61000-4-6 Fast transient bursts - test level: 2 kV Level 3 (direct contact) conforming to IEC 61000-4-4 Immunitet overfor små udfald og spændingsfald - test level: 30 % (500 ms) conforming to IEC 61000-4-11 Immunitet overfor små udfald og spændingsfald - test level: 100 % (20 ms) conforming to IEC 61000-4-11

Forpakningsinformation

Enhedstype af pakke 1	PCE
Antal enheder i pakke 1	1
Pakke 1 Højde	2,6 cm
Pakke 1 Længde	8,2 cm
Package 1 Length	9,5 cm
Pakke 1 Vægt	116,0 g
Enhedstype af pakke 2	S02
Antal enheder i pakke 2	40
Pakke 2 Højde	15,0 cm
Pakke 2 Bredde	30,0 cm
Pakke 2 Længde	40,0 cm
Pakke 2 Vægt	5,153 kg
Enhedstype af pakke 3	P06
Antal enheder i pakke 3	640
Pakke 3 Højde	75,0 cm
Pakke 3 Bredde	60,0 cm
Pakke 3 Længde	80,0 cm
Pakke 3 Vægt	74,24 kg

Logistik informationer

Oprindelsesland	ID

Environmental Data

Schneider Electrics mål er at opnå Net Zero-status i 2050 gennem partnerskaber med forsyningskæden, materialer med lavere påvirkning og cirkularitet via vores igangværende kampagne "Use Better, Use Longer, Use Again" for at forlænge produkternes levetid og genbrugelighed.

Forklaring af Environmental Data >

Sådan vurderer vi produktets bæredygtighed >

Miljøfodaftryk

CO2-belastning (kg CO2 eq.)	**54**

Use Better

Materialer og emballage

Pakke med genbrugspap	**Yes**
Emballage uden plast	**Yes**
EU RoHS-direktivet	**Proaktiv overensstemmelse (produkt ikke omfattet af EU RoHS)**
SCIP-nummer	**948566f8-a5c9-4da0-afbe-9524116a5ab8**
Reach-forordning	**REACh-erklæring**

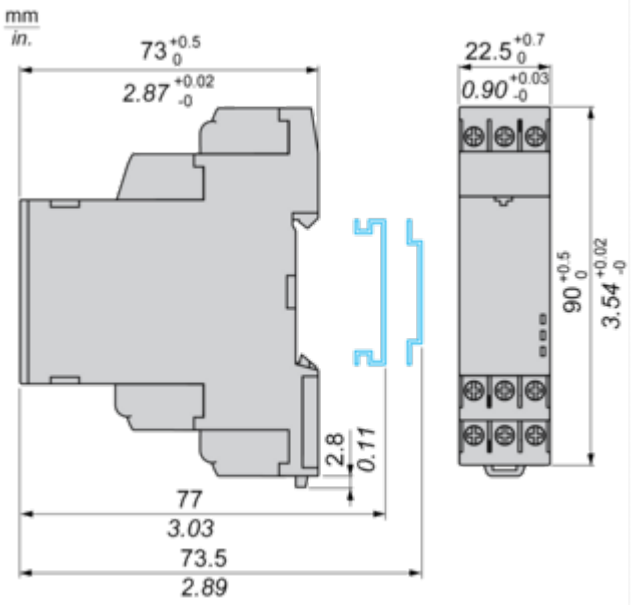
Use Again

Ompakning og genfremstilling

Returnering	**No**

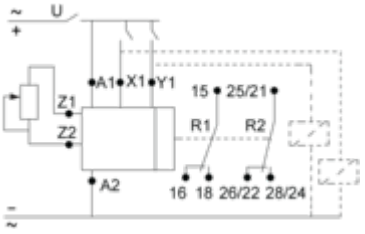
Dimensions Drawings

Dimensions



Connections and Schema

Wiring Diagram



Technical Description

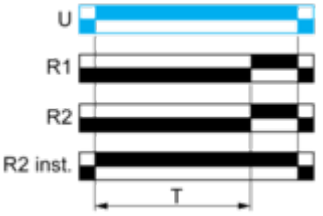
Function A: Power On-Delay

Description

On energisation of power supply, the timing period T starts. After timing, the output(s) R close(s).The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output

Function: 2 Outputs

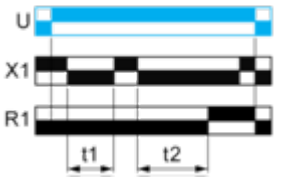


Function At: Power On-Delay with Pause / Summation Control

Description

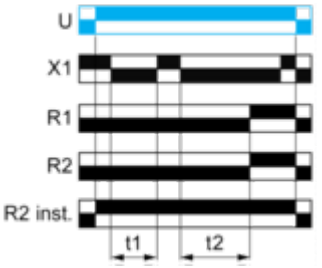
On energisation of power supply, the timing period T starts.Timing can be interrupted / paused each time X1 energizes.Except for RE17*, RE22R2AMU, RE22R2MMW, RE22R2MMU, RE22R2MJU, timing can be interrupted / paused each time Y1 energizes.When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R close(s).The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output with Pause / Summation Control



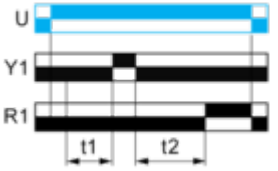
T = t1 + t2 +…

Function: 2 Outputs with Pause / Summation Control



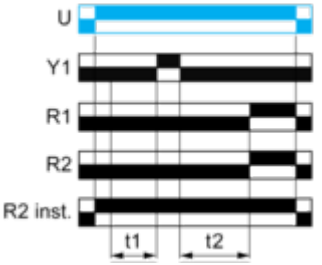
T = t1 + t2 +…

Function: 1 Output with Retrigger / Restart Control



T = t1 + t2 +…

Function: 2 Outputs with Retrigger / Restart Control



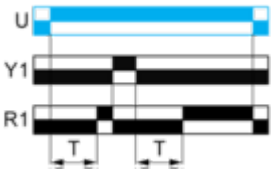
T = t1 + t2 +…

Function Aw : Power On-Delay With Retrigger / Restart Control

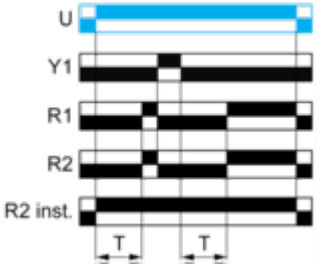
Description

On energisation of power supply, the timing period T starts.At the end of the timing period T, the output(s) R close(s).Energization of Y1 makes the output(s) R open(s).Deenergization of Y1 restarts timing period T.At the end of timing period T, the output(s) R close(s).The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST")

Function: 1 Output



Function: 2 Outputs



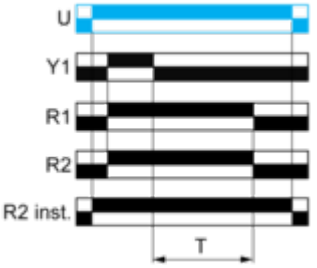
Function C: Off-Delay Relay with Control Signal

Description

After energisation of power supply and energization of Y1 causes output(s) R close(s). When Y1 deenergizes, 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

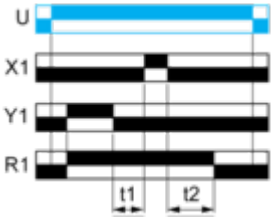


Function Ct: Off-Delay Relay with Control Signal & With Pause / Summation Control

Description

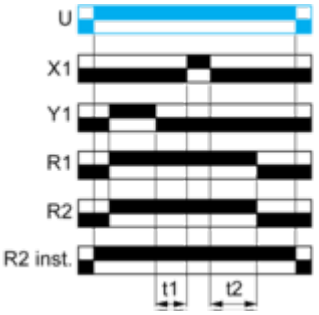
After energisation of power supply and energization of Y1 cause output(s) R close(s).When Y1 deenergizes, timing starts and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsedreaches the pre-set value T, the output(s) R revert(s) to its/their initial state.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



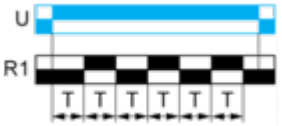
T = t1 + t2 +…

Function D: Symmetrical Flashing Relay (Starting Pulse Off)

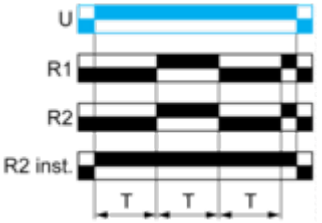
Description

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

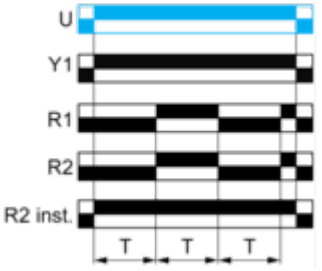


Function: 2 Outputs



Function: 1 Output with Retrigger / Restart Control

Function: 2 Output with Retrigger / Restart Control

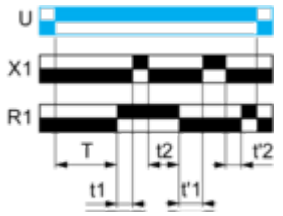


Function Dt: Symmetrical Flashing Relay (Starting Pulse Off) & With Pause / Summation Control

Description

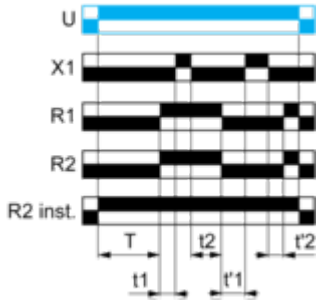
On energisation of power supply, output(s) R starts at its/their initial state for timing duration T and the timing can be interrupted / paused each time X1 energizes.When the cumulative total of time periods elapsed reaches the pre-set value T, then changes to output(s) R close(s).The output(s) R close state will remain for the same timing duration T and 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.This cycle is repeated indefintely until power supply removal.The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



T = t1 + t2 +…
T = t'1 + t'2 +…

Function: 2 Outputs



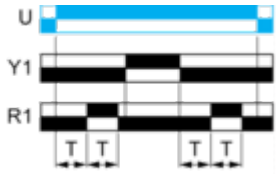
T = t1 + t2 +…
T = t'1 + t'2 +…

Function DW: Symmetrical Flashing Relay (Starting Pulse Off) & With Retrigger / Restart Control

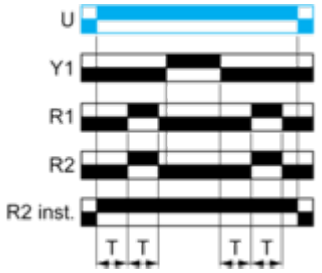
Description

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



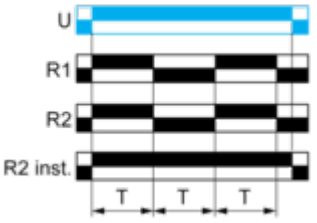
Function Di: Symmetrical Flashing Relay (Starting Pulse On)

Description

On energisation of power supply, output(s) R starts at output(s) R close(s) for timing duration T then revert(s) to its/their initial state for the same timing duration T.This cycle is repeated indefintely until power supply removal.The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output

Function: 2 Outputs

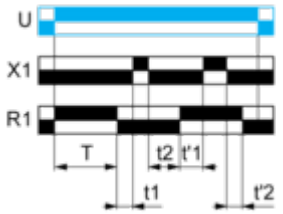


Function Dit: Symmetrical Flashing Relay (Starting Pulse On) & With Pause / Summation Control

Description

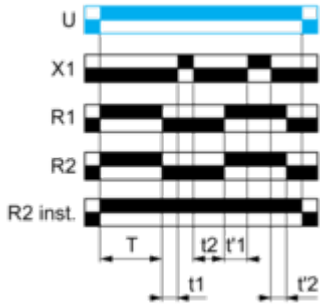
On energisation of power supply, output(s) R starts at output(s) R close(s) for timing duration T and the timing can be interrupted / paused each time X1 energizes.When the cumulative total of time periods elapsed reaches the pre-set value T, then revert(s) to its/their initial state.The output(s) R at initial state will remain for the same timing duration T and 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 change(s) to close state.This cycle is repeated indefintely until power supply removal.The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



T = t1 + t2 +…
T = t'1 + t'2 +…

Function: 2 Outputs



T = t1 + t2 +…
T = t'1 + t'2 +…

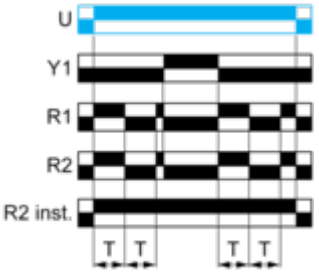
Function Diw: Symmetrical Flashing Relay (Starting Pulse On) & With Retrigger / Restart Control

Description

On energisation of power supply, output(s) R starts at output(s) R close(s) for timing duration T then revert(s) to its/their initial state for the same timing duration T.This cycle is repeated indefintely until power supply removal.At any state of the output(s) R when Y1 energizes, the output(s) R will revert to its/their initial state and followed by Y1 deenergizes then restarts the same operation as described at the beginning.The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output

Function: 2 Outputs

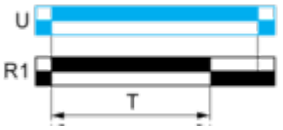


Function H: Interval Relay

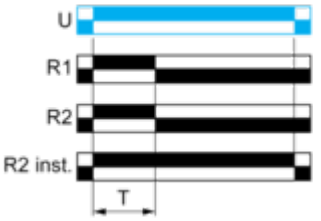
Description

On energisation of power supply, output(s) R close(s) and timing period T starts.At the end of the timing period T, the output(s) R revert(s) to its/their initial state.The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



Function: 2 Outputs

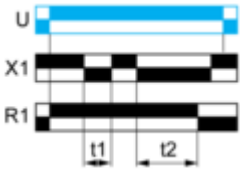


Function Ht: Interval Relay & With Pause / Summation Control

Description

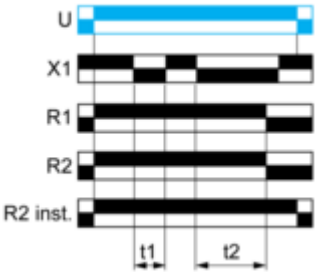
On energisation of power supply, output(s) R close(s) and timing period T starts.
The timing can be interrupted / paused each time X1 energizes.
When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R revert(s) to its/their initial state Reenergization of X1 will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



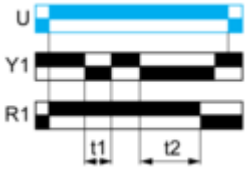
T = t1 + t2 +...

Function: 2 Outputs



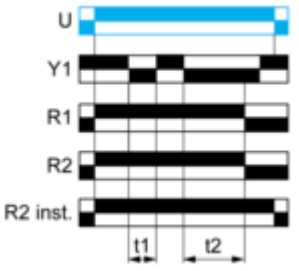
T = t1 + t2 +...

Function: 1 Output with Retrigger / Restart Control



T = t1 + t2 +...

Function: 2 Outputs with Retrigger / Restart Control



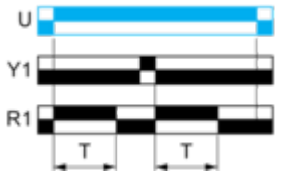
T = t1 + t2 +...

Function Hw: Interval Relay & with Retrigger / Restart Control

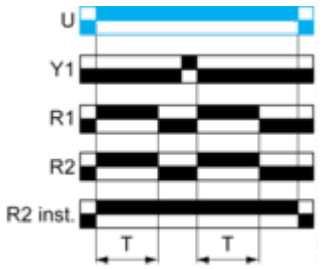
Description

On energisation of power supply, output(s) R close(s) and timing period T starts.At the end of the timing period T, the output(s) R revert(s) to its/their initial state.At any state of the output(s) R when Y1 energizes followed by deenergizes, the output(s) R close(s) then restarts the same operation as described at the beginning.The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



Function: 2 Outputs

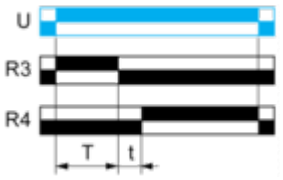


Function Qg: Star-Delta Relay (2 CO with same Common)

Description

On energisation of power supply, the output R3 closes such that energizes STAR CONTACTOR + MAIN CONTACTOR and the timing T starts (STAR connection time duration starts).At the end of the timing period T, the output R3 reverts to its initial state such that deenergizes STAR CONTACTOR and causes t transition time starts.At the end of the transition time, the output R4 closes such that energizes DELTA CONTACTOR. Diagnostic feature not available.

Function: 2 Outputs



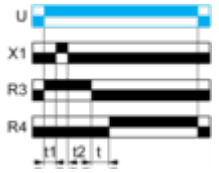
t : 20, 40, 60, 80, 100, 120, 140 ms

Function Qgt: Star-Delta Relay (2 CO with same common) with Pause / Summation Control

Description

On energisation of power supply, the output R3 closes such that energizes STAR CONTACTOR + MAIN CONTACTOR and the timing T starts (STAR connection time duration starts).During STAR connection time, the timing can be interrupted / paused each time X1 energizes.When the cumulative total of time periods elapsed reaches the pre-set value T, R3 reverts to its initial state such that deenergizes STAR CONTACTOR and causes t transition time starts.At the end of the transition time, the output R4 closes such that energizes DELTA CONTACTOR. Diagnostic feature not available.

Function: 2 Outputs



T = t1 + t2 +…

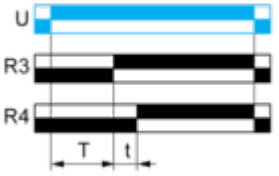
NOTE: RE22R2MYMR is with fixed transition time, t: 50ms

Function Qt: Star-Delta Relay (2 CO with Split Common)

Description

On energisation of power supply, the output R3 & R4 initializes at its initial state such that energizes STAR CONTACTOR + MAIN CONTACTOR and the timing T starts (STAR connection time duration starts).At the end of the timing period T, the output R3 closes such that deenergizes STAR CONTACTOR and causes t transition time starts.At the end of the transition time, the output R4 closes such that energizes DELTA CONTACTOR. Diagnostic feature not available.

Function: 2 Outputs



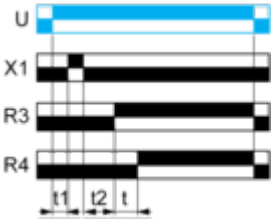
t : 20, 40, 60, 80, 100, 120, 140 ms

Function Qtt: Star-Delta Relay (2 CO with same common) with Pause / Summation Control

Description

On energisation of power supply, the output R3 & R4 initializes at its initial state such that energizes STAR CONTACTOR + MAIN CONTACTOR and the timing T starts (STAR connection time duration starts).During STAR connection time, 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 R3 closes such that deenergizes STAR CONTACTOR and causes t transition time starts.At the end of the transition time, the output R4 closes such that energizes DELTA CONTACTOR. Diagnostic feature not available.

Function: 2 Outputs



T = t1 + t2 +…

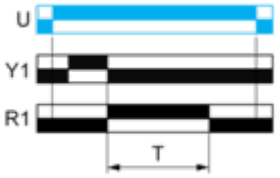
NOTE: RE22R2MYMR is with fixed transition time, t: 50ms

Function W: Interval Relay with Control Signal Off

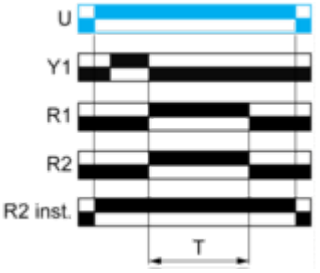
Description

After energisation of power supply and on energization of Y1 following by denergization of Y1, the output(s) R close(s) and starts the timing T.At the end of the timing period, the output(s) R revert(s) to its/their initial state.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 Wt: Interval Relay with Control Signal Off & with Pause / Summation Control

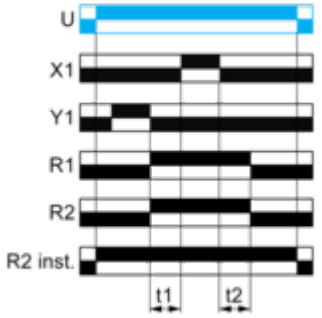
Description

After energisation of power supply and on energization of Y1 following by denergization of Y1, the output(s) R close(s) and starts the timing T.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.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 +…

Legend

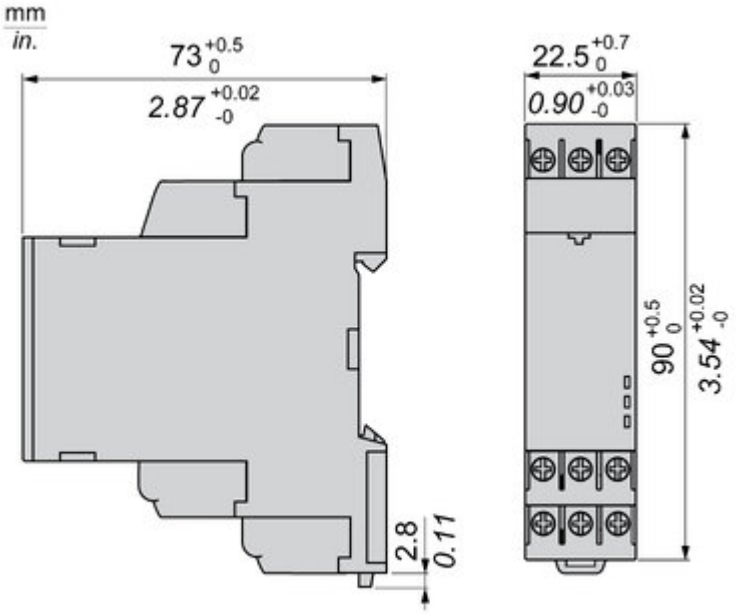
Relay de-energised
Relay energised
Output open
Output closed

U -	Supply
R1/R2 -	2 timed outputs
Ta -	Adjustable On-delay
Tr -	Adjustable Off-delay
X1 -	Pause / Summation control
Y1 -	Retrigger / Restart control
X2 -	Function Selection
R2 inst. -	The second output is instantaneous if the right position is selected
T -	Timing period

R4 -	Delta contact output
t -	Delay to switch ON Delta contact output
R3 -	Star-Delta contact output

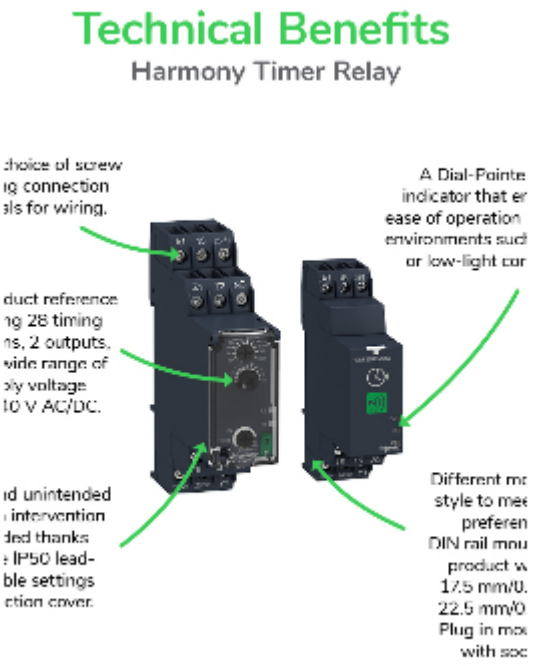
Technical Illustration

Dimensions



Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features

Image of product / Alternate images

Alternative