

Технические характеристики продукта

Спецификации



Реле времени, 8 А, 2 СО, 0.05 с...300 ч, многофункц., 24...240 V AC/DC

RE22R2MYMR

Основные характеристики

Серия	Реле времени Harmony
Тип Продукта	Модульное реле времени
Тип Дискретного Выхода	Реле
Краткое Название Устройства	RE22
Номинальных Выходной Ток	8 А

Дополнительные характеристики

Тип Контактв	1 переключающ. контакт с задержкой срабатывания или мгновенный, не содержит кадмий 2 переключающ. контакт с задержкой срабатывания, не содержит кадмий
Тип Задержки	Power on-delay Задержка отключения Symmetrical flashing Интервал Star-delta
Диапазон Задержки	3...30 мин 30...300 мин 0,3...3 с 3...30 ч 10...100 с 1...10 с 0.05...1 с 30...300 с 30...300 ч 3...30 с
Тип Управления	Поворотная ручка Кнопка диагностики Потенциометр внешний
[Us] Номинальное Напряжение Сети	24...240 В пер./пост. тока 50/60 Гц
Release Input Voltage	<= 2.4 В
Диапазон Напряжения	0,85...1,1 Us
Частота Сети Питания	50...60 Гц +/- 5 %
Соединения – Клеммы	Винтовые зажимы, 1 x 0,5...1 x 3,3 мм ² (AWG 20...AWG 12) жесткий кабель Без наконечника Винтовые зажимы, 2 x 0,5...2 x 2,5 мм ² (AWG 20...AWG 14) жесткий кабель Без наконечника Винтовые зажимы, 1 x 0,2...1 x 2,5 мм ² (AWG 24...AWG 14) гибкий С кабельным наконечником Винтовые зажимы, 2 x 0,2...2 x 1,5 мм ² (AWG 24...AWG 16) гибкий С кабельным наконечником
Момент Затяжки	0,6...1 Н·м в соответствии с IEC 60947-1
Материал Корпуса	Самозатухающий
Повторяемость Позиционирования	+/- 0,5 % в соответствии с IEC 61812-1

Отказ от ответственности: Данный документ не отменяет необходимости определения пригодности этих продуктов для конкретных задач и их надежности в этих областях применения и не может служить для такого определения.

Отклонение Ном. Характеристик В Зависимост	+/- 0,05 %/°C
Отклонение Напряжения	+/- 0,2 %/В
Погрешность Задержки Срабатывания	+/- 10 % полной шкалы в 25 °C в соответствии с IEC 61812-1
Control Signal Pulse Width	100 ms с включенной параллельно нагрузкой 30 ms
Сопrotивление Изоляции	100 МОм в 500 мV постоянный ток в соответствии с IEC 60664-1
Recovery Time	120 ms при снятии напряжения
Стойкость К Кратковременным Исчезновениям	10 ms
Потребляемая Мощность, Вa	3 VA в 240 В переменный ток
Потребляемая Мощность, Вт	1,5 W в 240 В Постоянный ток
Коммутационная Способность, В·А	2000 VA
Минимальный Коммутируемый Ток	10 мA в 5 В постоянный ток
Макс. Коммутируемый Ток	8 A
Макс. Коммутируемое Напряжение	250 мV переменный ток
Электрическая Износостойкость	100000 циклы, 8 A в 250 В, AC-1 100000 циклы, 2 A в 24 В, DC-1
Механическая Износостойкость	1000000 циклы
Rated Impulse Withstand Voltage	5 кВ для 1,2...50 μs в соответствии с IEC 60664-1
Power On Delay	100 ms
Длина Пути Тока Утечки	4 кV/3 в соответствии с IEC 60664-1
Категория Перенапряжения	III в соответствии с IEC 60664-1
Данные О Безопасности И Надежности	B10d = 160000 MTTFd = 171.2 лет
Монтажное Положение	Любое положение
Монтажная Опора	DIN-рейка 35 мм в соответствии с IEC 60715
Светодиодный Индикатор Состояния	Зеленый светодиодная подсветка (постоянный) для шкала указателя индикации Желтый светодиод (постоянный) для выходное реле под напряжением Желтый светодиод (Быстрое мигание) для расчет времени в процессе и деактивир.выходном реле Желтый светодиод (Медленное мигание) для расчет времени в процессе и активир.выходном реле

Доступные Функции	A- Power on-delay relay-2 переключающ. At- Power on-delay relay w/ pause/summation (X1)-2 переключающ. Aw- Power on-delay relay w/ retrigger/restart-2 переключающ. C- Off-delay relay w/ control signal-2 переключающ. Ct- Off-delay relay w/ control signal and pause/summation-2 переключающ. D- Symmetrical flashing relay (starting pulse-off)-2 переключающ. Dt- Symmetrical flashing relay (starting pulse-off) w/ pause/summation (X1)-2 переключающ. Dw- Symmetrical flashing relay (starting pulse-off) w/ retrigger/restart-2 переключающ. Di- Symmetrical flashing relay (starting pulse-on)-2 переключающ. Dit- Symmetrical flashing relay (starting pulse-on) w/ pause/summation (X1)-2 переключающ. Diw- Symmetrical flashing relay (starting pulse-on) w/ retrigger/restart-2 переключающ. H- Interval relay-2 переключающ. Ht- Interval relay w/ pause/summation (X1)-2 переключающ. Hw- Interval relay w/ retrigger/restart-2 переключающ. Qg- Star-delta relay (2 CO outputs w/ same common)-2 переключающ. Qgt- Star-delta relay (2 CO outputs w/ same common) w/ pause/summation-2 переключающ. Qt- Star-delta relay (2 CO outputs w/ split common)-2 переключающ. Qtt- Star-delta relay (2 CO outputs w/ split common) w/ pause/summation (X1)-2 переключающ. W- Interval relay w/ control signal off-2 переключающ. Wt- Interval relay w/ control signal off and pause/summation-2 переключающ.
Ширина	22,5 mm
Вес Нетто	0,105 kg
Тип Управления	With test button
Количество Функций	22

Условия эксплуатации

Электрическая Прочность Изоляции	2,5 кВ для 1 мА/1 минута в 50 Гц между реле выхода и источником питания с стандартная изоляция в соответствии с IEC 61812-1
Стандарты	UL 508 IEC 61812-1
Директивы	2004/108/EC - электромагнитная совместимость 2006/95/EC - директива по низкому напряжению
Сертификаты	RCM CE EAC CSA CCC UL GL
Температура Окружающей Среды	-20...60 °C
Температура Окружающей Среды При Хранении	-40...70 °C
Степень Защиты Ip	IP40 корпус: conforming to IEC 60529 IP20 зажимы: conforming to IEC 60529 IP50 передняя панель: conforming to IEC 60529
Степень Загрязнения	3 в соответствии с IEC 60664-1
Виброустойчивость	20 m/s² (частота= 10...150 дюйм) в соответствии с IEC 60068-2-6
Ударопрочность	15 гп неработающий для 11 ms в соответствии с IEC 60068-2-27 5 гп в рабочем режиме для 11 ms в соответствии с IEC 60068-2-27
Относительная Влажность	95 % в 25...55 °C

Электромагнитная Совместимость	Тест на стойкость к коммутационным помехам - test level: 1 кВ уровень 3 (емкостные клещи связи) conforming to МЭК 61000-4-4 Испытание невосприимчивости к импульсным помехам - test level: 1 кВ уровень 3 (дифференциальн. режим) conforming to МЭК 61000-4-5 Испытание невосприимчивости к импульсным помехам - test level: 2 кВ уровень 3 (общий режим) conforming to МЭК 61000-4-5 Электростатический разряд - test level: 6 кВ уровень 3 (контактный разряд) conforming to МЭК 61000-4-2 Электростатический разряд - test level: 8 кВ уровень 3 (воздушный разряд) conforming to МЭК 61000-4-2 Испытание на стойкость к радиочастотным помехам - test level: 10 В/м уровень 3 (80 МГц...1 ГГц) conforming to МЭК 61000-4-3 Наведенные РЧ помехи - test level: 10 В уровень 3 (0,15...80 МГц) conforming to МЭК 61000-4-6 Коммутационные помехи - test level: 2 кВ уровень 3 (прямое прикосновение) conforming to МЭК 61000-4-4 Стойкость к кратковременным исчезновениям и провалам - test level: 30 % (500 ms) conforming to IEC 61000-4-11 Стойкость к кратковременным исчезновениям и провалам - test level: 100 % (20 мс) conforming to IEC 61000-4-11
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Тип упаковки

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2,6 cm
Package 1 Width	8,2 cm
Package 1 Length	9,5 cm
Package 1 Weight	116,0 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	5,153 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	640
Package 3 Height	75,0 cm
Package 3 Width	60,0 cm
Package 3 Length	80,0 cm
Package 3 Weight	74,24 kg

Устойчивое развитие

Знак **Green Premium™** - это обязательство компании Schneider Electric поставлять продукцию с лучшими в своем классе характеристиками по характеристикам окружающей среды. Green Premium обещает соответствие новейшим нормативным требованиям, прозрачность воздействия на окружающую среду, а также безопасность продукции с низким уровнем выбросов CO₂.

Руководство по оценке устойчивости продукта - это информационная статья, в которой разъясняются глобальные стандарты экомаркировки и способы интерпретации экологических деклараций.

[Подробнее о Green Premium >](#)

[Руководство по оценке устойчивости продукта >](#)



Прозрачность RoHS/REACH

Показатель состояния



Не Содержит Ртут



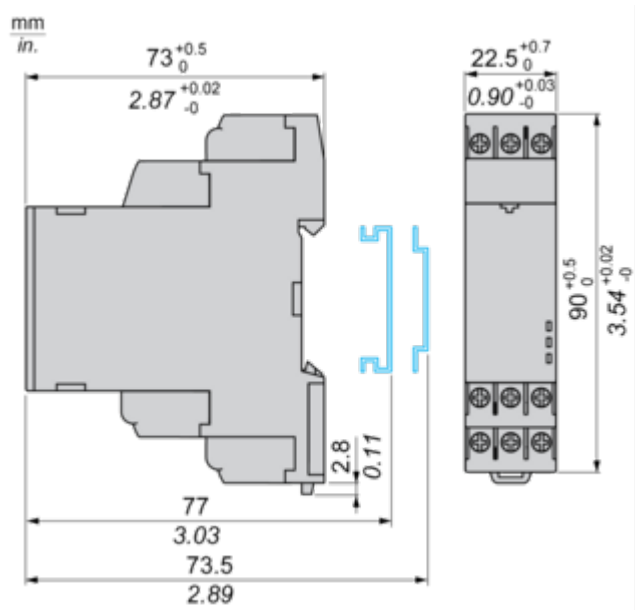
Информация Об Исключениях По Регламенту Rohs

Да

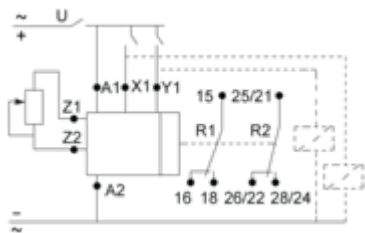
Сертификация и стандарты

Регламент Reach	Декларация REACH
Директива Ec Rohs	Соответствует по умолчанию (продукт вне сферы действия EC RoHS)
Регламент Rohs Китая	Декларация RoHS Китая
Экологическая Отчетность	Экологический профиль продукта
Профиль Кругооборота	Информация о конце срока службы

Dimensions



Wiring Diagram

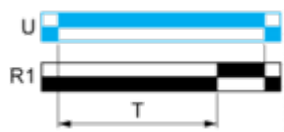


Function A: Power On-Delay

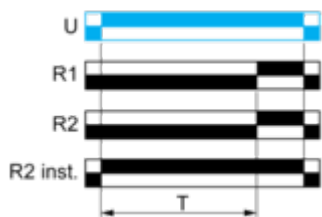
Description

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

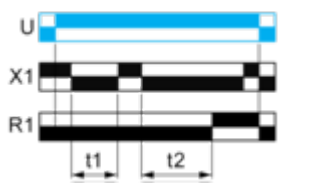


Function At: Power On-Delay with Pause / Summation Control

Description

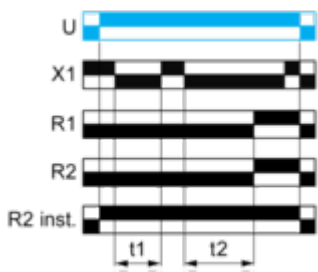
On energisation of power supply, the timing period T starts. Timing can be interrupted / paused each time X1 energizes. Except for RE17*, RE22R2AMU, RE22R2MMW, RE22R2MMU, RE22R2MJU, timing can be interrupted / paused each time Y1 energizes. When the cumulative total of time periods elapsed reaches the 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



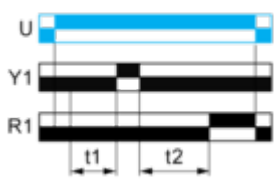
$T = t1 + t2 + \dots$

Function: 2 Outputs with Pause / Summation Control



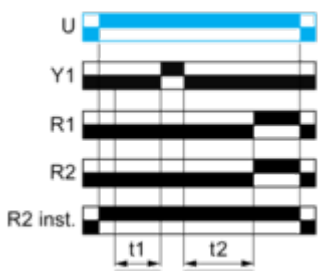
$T = t1 + t2 + \dots$

Function: 1 Output with Retrigger / Restart Control



$T = t1 + t2 + \dots$

Function: 2 Outputs with Retrigger / Restart Control



$T = t1 + t2 + \dots$

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

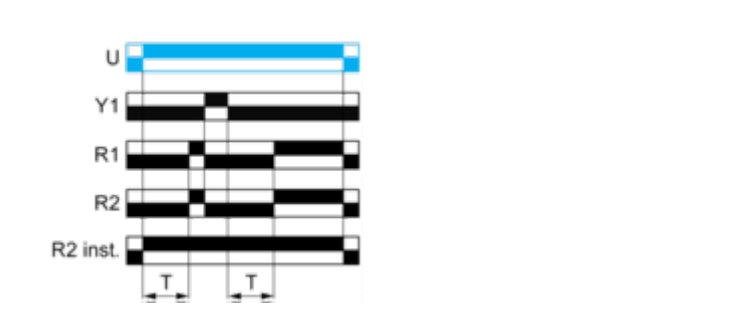
Description

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

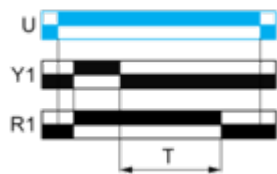


Function C: Off-Delay Relay with Control Signal

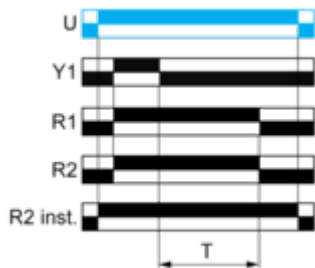
Description

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

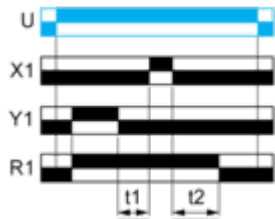


Function Ct: Off-Delay Relay with Control Signal & With Pause / Summation Control

Description

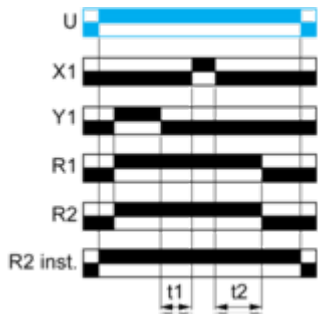
After energisation of power supply and energization of Y1 cause output(s) R close(s).When Y1 deenergizes, timing starts and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsedreaches the pre-set value T, the output(s) R revert(s) to its/their initial state.The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



$T = t1 + t2 + \dots$

Function: 2 Outputs



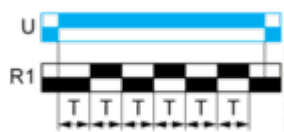
$T = t1 + t2 + \dots$

Function D: Symmetrical Flashing Relay (Starting Pulse Off)

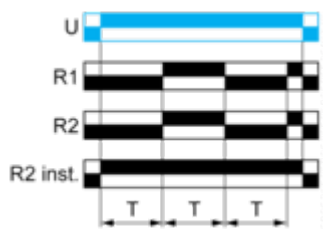
Description

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").

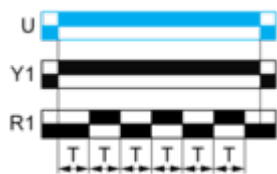
Function: 1 Output



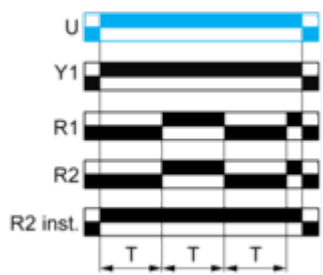
Function: 2 Outputs



Function: 1 Output with Retrigger / Restart Control



Function: 2 Output with Retrigger / Restart Control

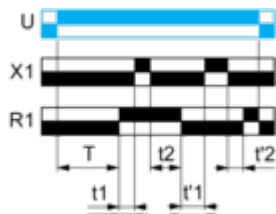


Function Dt: Symmetrical Flashing Relay (Starting Pulse Off) & With Pause / Summation Control

Description

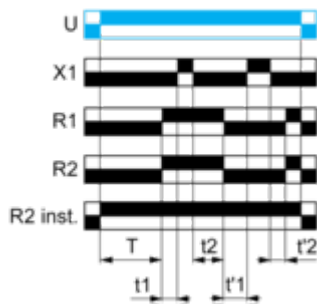
On energisation of power supply, output(s) R starts at its/their initial state for timing duration T and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value T, then changes to output(s) R close(s). The output(s) R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



$T = t1 + t2 + \dots$
 $T = t'1 + t'2 + \dots$

Function: 2 Outputs



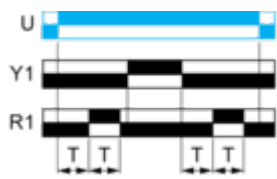
$T = t1 + t2 + \dots$
 $T = t'1 + t'2 + \dots$

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

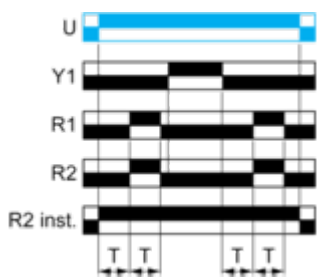
Description

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 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

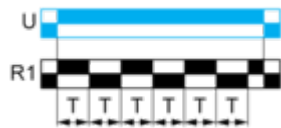


Function Di: Symmetrical Flashing Relay (Starting Pulse On)

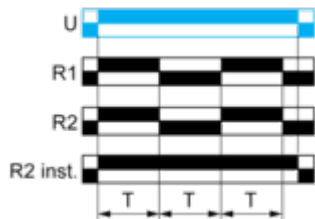
Description

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 indefinitely 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



Технические
характеристики
продукта

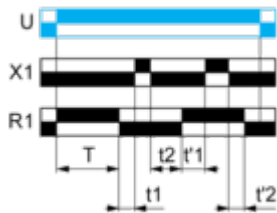
RE22R2MYMR

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

Description

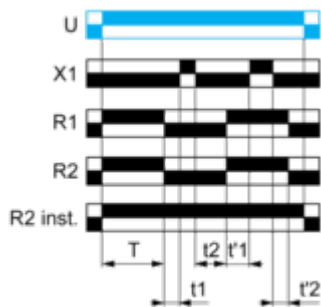
On energisation of power supply, output(s) R starts at output(s) R close(s) for timing duration T and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value T, then revert(s) to its/their initial state. The output(s)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



$T = t1 + t2 + \dots$
 $T = t'1 + t'2 + \dots$

Function: 2 Outputs



$T = t1 + t2 + \dots$
 $T = t'1 + t'2 + \dots$

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

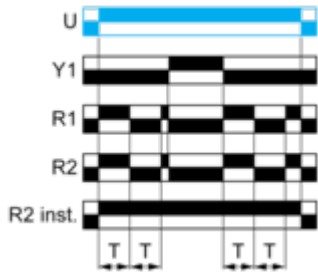
Description

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 indefinitely 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

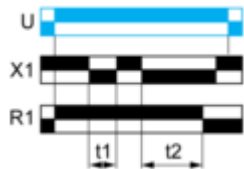


Function Ht: Interval Relay & With Pause / Summation Control

Description

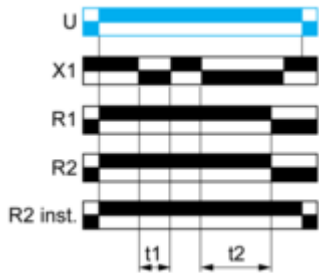
On energisation of power supply, output(s) R close(s) and timing period T starts.
The timing can be interrupted / paused each time X1 energizes.
When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R revert(s) to its/their initial state
Reenergization of X1 will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



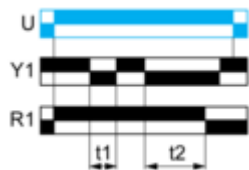
$T = t1 + t2 + \dots$

Function: 2 Outputs



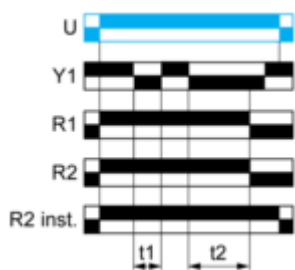
$T = t1 + t2 + \dots$

Function: 1 Output with Retrigger / Restart Control



$T = t1 + t2 + \dots$

Function: 2 Outputs with Retrigger / Restart Control



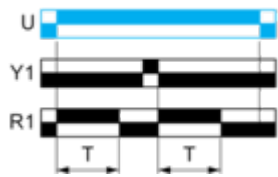
$T = t1 + t2 + \dots$

Function Hw: Interval Relay & with Retrigger / Restart Control

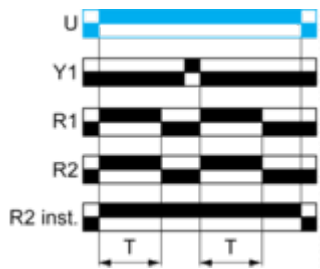
Description

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

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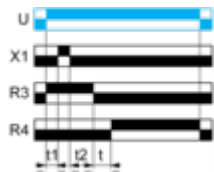
RE22R2MYMR

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



$T = t1 + t2 + \dots$

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



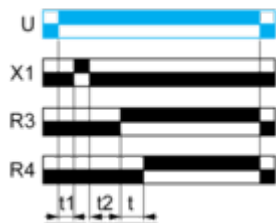
t : 20, 40, 60, 80, 100, 120, 140 ms

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



$T = t_1 + t_2 + \dots$

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

Function W: Interval Relay with Control Signal Off

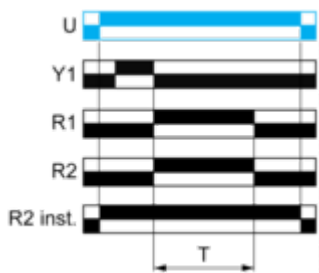
Description

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



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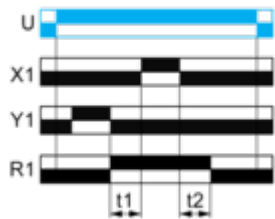
RE22R2MYMR

Function Wt: Interval Relay with Control Signal Off & with Pause / Summation Control

Description

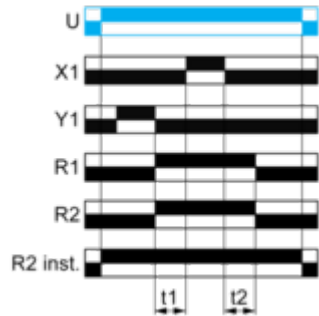
After energisation of power supply and on energization of Y1 following by denenergization of Y1, the output(s) R close(s) and starts the timing T. Timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R 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

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RE22R2MYMR

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