

# Fișă tehnică produs

Specificatii



## Releu de Temporizare Stea-Triunghi, 24Vcc/24, 240 Vca, 1 D/I

RE22R1QMU

### Principale

gama de produse	Harmony Timer Relays
tip de iesire discreta	Releu
Tip produs sau componenta	Releu de sincronizare modular
nume scurt al dispozitivului	RE23
curent nominal de iesire	8 A

### Suplimentare

tip si compozitie contacte	1 C/O contact temporizat
tip intarziere	Star-delta
intervalul de intarziere	1...10 min 6...60 s 0.1...1 s 1...10 H 1...10 s 6...60 min 10...100 H
tip de control	Maner sferic rotativ panou frontal
[Us] tensiune nominala de alimentare	24...240 V c.a. 24 V c.c.
interval de tensiune	0,85...1,1 Us
frecventa de alimentare	50...60 Hz +/- 5 %
conexiuni - borne	Borne cu surub, 2 x 1,5 mm <sup>2</sup> cu pini Borne cu surub, 2 x 2,5 mm <sup>2</sup> fara terminale de cablu
cuplu de strangere	0,6...1 N.m conformitate cu IEC 60947-1
material carcasa	Autostingere
precizie de repetare	+/- 0,5 % conformitate cu IEC 61812-1
Abatere temperatura	+/- 0,05 %/°C
abatere a tensiunii	+/- 0,2 %/V
setarea preciziei temporizarii	+/- 10 % din capatul scarii la 25 °C conformitate cu IEC 61812-1
Time delay type	Star-delta - Q-Star-delta relay (2 NO outputs with same common)
Control signal pulse width	30 ms 100 ms sub sarcină
rezistenta de izolatie	100 MΩ la 500 V c.c. conformitate cu SR EN 60664-1
Recovery time	120 ms la întreruperea alimentarii
imunitate la microintreruperi	10 ms
puterea consumata in VA	50 VA la 240 V c.a.

<b>puterea consumata in W</b>	0,7 W la 24 V c.c.
<b>capacitate de rupere</b>	2000 VA
<b>curentul minim de comutare</b>	10 mA la 5 V
<b>curent maxim comutat</b>	8 mA
<b>tensiunea maxima de comutatie</b>	250 V
<b>durabilitate electrica</b>	100000 cic pentru rezistiv sarcina, 8 A la 250 V, AC
<b>durabilitate mecanica</b>	10000000 cic
<b>Rated impulse withstand voltage</b>	5 kV pentru 1,2...50 µs conformitate cu SR EN 60664-1 5 kV conformitate cu IEC 61812-1
<b>Power on delay</b>	100 ms
<b>fiabilitate securitate date</b>	MTTFd = 182.6 ani B10d = 170000
<b>pozitia de montaj</b>	Orice pozitie în raport cu planul normal vertical de montare
<b>suport de montare</b>	Sina DIN 35 mm conformitate cu IEC 60715
<b>stare LED</b>	Verde LED (intermitent) pentru temporizare în progres Verde LED (stabil) pentru alimentat Galben LED pentru releu alimentat
<b>functie disponibila</b>	Q-Star-delta relay (2 NO outputs with same common)-1 C/O
<b>latime</b>	22,5 mm
<b>greutate produs</b>	0,086 kg
<b>tip de control</b>	With test button
<b>Number of functions</b>	1

## Mediu

<b>rigiditate dielectrica</b>	2,5 kV pentru 1 mA/1 minut la 50 Hz conformitate cu IEC 61812-1
<b>standarde</b>	IEC 61000-6-4 IEC 61000-6-2 IEC 61000-6-3 IEC 61000-6-1 IEC 61812-1
<b>directive</b>	2006/95/EC - directiva de joasă tensiune 2004/108/EC - compatibilitate electromagnetica
<b>certificari produs</b>	CSA EAC RCM UE CCC GL cULus
<b>temperatura ambientala de functionare</b>	-20...60 °C
<b>temperatura ambietala pentru depozitare</b>	-30...60 °C
<b>grad de protectie IP</b>	IP40 carcasa: conforming to SR EN 60529 IP20 bloc terminal: conforming to SR EN 60529 IP40 parte frontala: conforming to SR EN 60529
<b>rezistenta la vibratii</b>	20 m/s <sup>2</sup> (f= 10...150 Hz) conforming to IEC 60068-2-6
<b>rezistenta la socuri</b>	15 gn pentru 11 ms conformitate cu IEC 60068-2-27
<b>umiditate relativa</b>	93 %, fără condensare conformitate cu IEC 60068-2-30

<b>compatibilitate electromagnetica</b>	<p>Test de imunitate la descarcari electrostatice - test level: 6 kV nivel 3 (descarcare pe contact) conforming to IEC 61000-4-2</p> <p>Test de imunitate la descarcari electrostatice - test level: 9 kV nivel 3 (descarcare în aer) conforming to IEC 61000-4-2</p> <p>Test de imunitate la tranzienti rapizi - test level: 1 kV nivel 3 (brida de conectare capacitiva) conforming to IEC 61000-4-4</p> <p>Test de imunitate la tranzienti rapizi - test level: 2 kV nivel 3 (contact direct) conforming to IEC 61000-4-4</p> <p>Test de imunitate la supratensiuni - test level: 1 kV nivel 3 (mod diferential) conforming to IEC 61000-4-5</p> <p>Test de imunitate la supratensiuni - test level: 2 kV nivel 3 (mod comun) conforming to IEC 61000-4-5</p> <p>Test de imunitate la frecventa radio radiata - test level: 10 V nivel 3 (0.15 - 80 MHz) conforming to IEC 61000-4-6</p> <p>Test de imunitate la câmp electromagnetic - test level: 10 V/m nivel 3 (80 MHz - 1 GHz) conforming to IEC 61000-4-3</p> <p>Imunitate la microîntreruperi si caderi ale tensiunii - test level: 30 % (500 ms) conforming to IEC 61000-4-11</p> <p>Imunitate la microîntreruperi si caderi ale tensiunii - test level: 100 % (21 ms) conforming to IEC 61000-4-11</p> <p>Emisii conduse și radiate clasa B conforming to EN 55022</p>
---	--

## Unitati de ambalare

<b>Unitate de masura pentru prima forma de impachetare</b>	PCE
<b>Numar unitati in prima forma de impachetare</b>	1
<b>Inaltime prima forma de impachetare</b>	2,6 cm
<b>Latime prima forma de impachetare</b>	8,2 cm
<b>Lungime prima forma de impachetare</b>	9,6 cm
<b>Greutate prima forma de impachetare</b>	98,0 g
<b>Unitate de masura pentru a doua forma de impachetare</b>	S02
<b>Numar unitati in a doua forma de impachetare</b>	40
<b>Inaltime a doua forma de impachetare</b>	15,0 cm
<b>Latime a doua forma de impachetare</b>	30,0 cm
<b>Lungime a doua forma de impachetare</b>	40,0 cm
<b>Greutate a doua forma de impachetare</b>	4,309 kg

## Garanție contractuală

<b>Garantie</b>	18 luni
-----------------	---------

## Environmental Data

Schneider Electric isi propune sa atinga nivelul Net Zero pana in 2050 prin parteneriate la nivelul lantului de aprovizionare, materiale cu impact mai redus si circularitate, prin campania „Use Better, Use Longer, Use Again” pentru a extinde durata de viata a produselor si reciclabilitatea.

[Environmental Data explicate >](#)

[Cum evaluam sustenabilitatea produselor >](#)

### **Amprenta de mediu**

Amprenta de carbon (kg CO2 eq.)	53
---------------------------------	----

### **Use Better**

#### **Materiale si ambalare**

Pachet cu carton reciclabil	Da
-----------------------------	----

Ambalaj fara plastic	Da
----------------------	----

[Directiva RoHS UE](#)

Conformitate proactiva (Produs in afara domeniului de aplicare a EU RoHS)

Numar SCIP

7bdc2711-0ad2-427c-8ece-532c5e9f09d7

Regulamentul REACH

[Declaratia REACH](#)

### **Use Again**

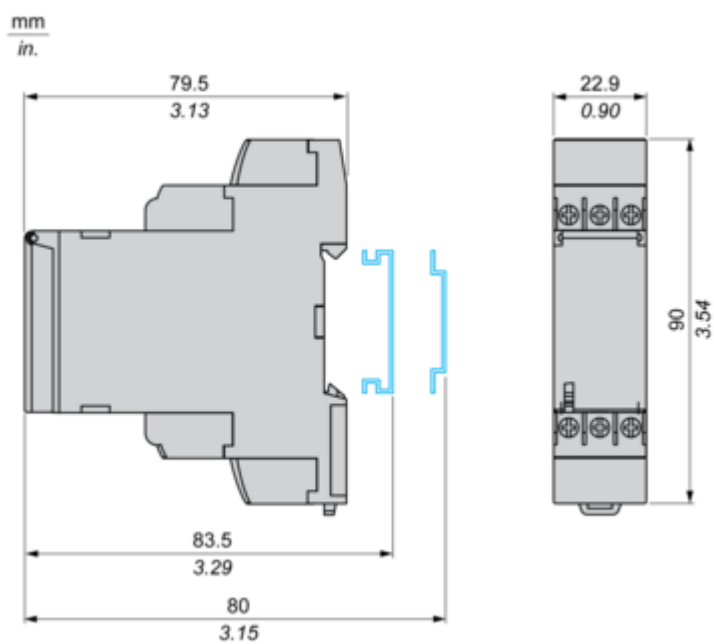
#### **Reambalare si refabricare**

Preluare la sfarsitul duratei de viata	No
--	----

Dimensions Drawings

Dimensions

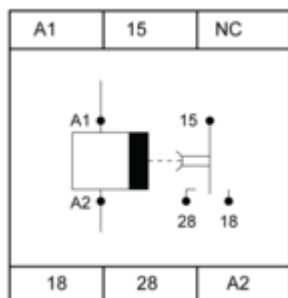
---



Connections and Schema

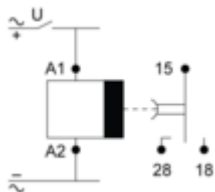
Internal Wiring Diagram

---



Wiring Diagram

---



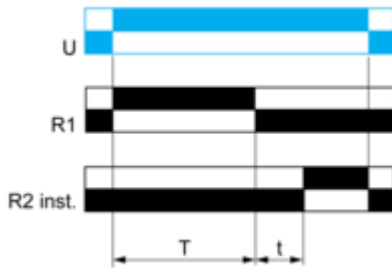
Technical Description

**Star-delta Timing Relay**

---

**Description**

After power-up, the star contact closes instantly and timing T starts, At the end of timing period, the star contact opens. After a t ms pause, the delta contact closes and remains in this position.



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

**Legend**

- Relay de-energised
- Relay energised
- Output open
- Output closed

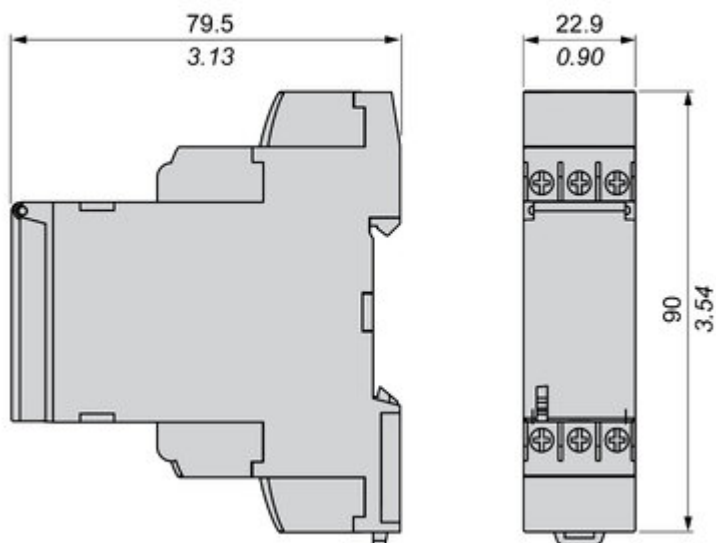
R1 :	Star contact output
R2 :	Delta contact output
T :	Timing period
t :	Delay to switch ON Delta contact output
U :	Supply

Technical Illustration

Dimensions

---

mm  
in.



Offer Marketing Illustration

Product benefits / Features

## Technical Benefits

### Harmony Timer Relay

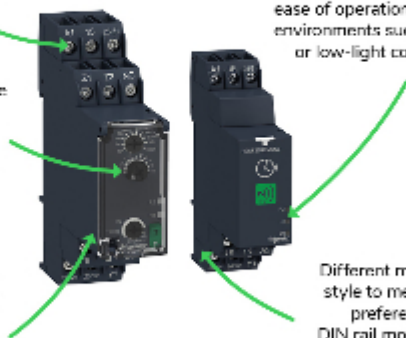
A choice of screw  
terminal connection  
options for wiring.

Compact reference  
design: 28 timing  
options, 2 outputs,  
wide range of  
supply voltage:  
10 V AC/DC.

Shielded and  
unintended  
intervention  
prevented thanks  
to IP50 lead-  
able settings  
rotation cover.

A Dial-Pointe  
indicator that  
ensures ease of operation  
in environments such  
as low-light car

Different me-  
chanical  
styles to meet  
customer preferen-  
ces:  
DIN rail mount  
product with  
17.5 mm/0.7  
inch height  
Plug-in model  
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

---

