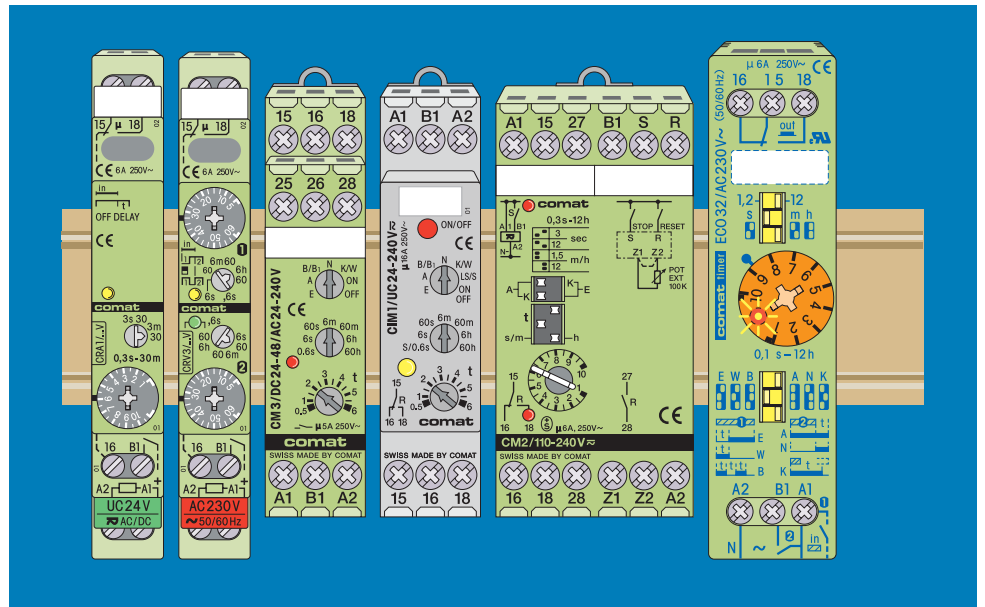


Time delay Relays

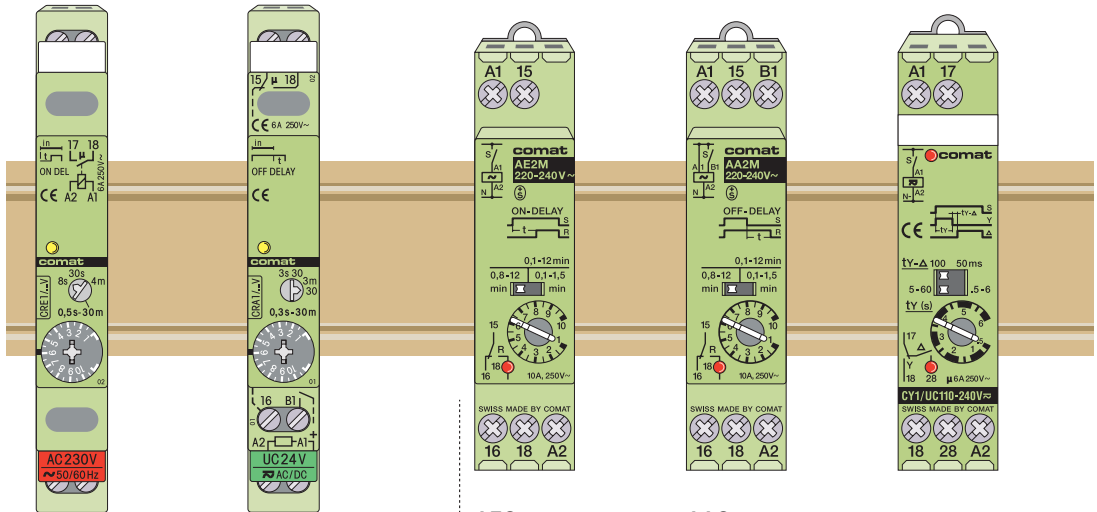
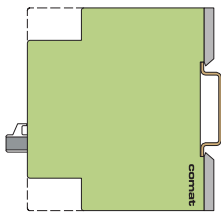
# DIN Time Delay Relays



**DIN**

- Multifunction Time Delay Relays
- Extra slim Time Delay Relays 13 mm
- DIN-A (Installation, distribution panel)
- DIN-C (Industry)
- 22,5 mm Seies

DIN Time Delay Relays (mono-function)



**Economy Time Delay Relays**  
Only 13 or 17,5mm wide.  
Ideal for applications with a fixed function E, A or Y.  
For snap-on installation in accordance with DIN 43880.

**CRE1**

**Economy time delay relay**

- on delay
- voltage controlled
- LED for R.

**CRA1**

**Economy time delay relay**

- off delay
- voltage controlled
- LED for R

**AE2  
AE2M**

**Economy time delay relay**

- on delay
- voltage controlled
- 1 changeover contact
- Output-LED

**AA2  
AA2M**

**Economy time delay relay**

- off delay
- voltage controlled
- 1 changeover contact
- Output-LED

**CY1**

**Star-delta time delay relay**

- with adjustable  $\Delta$ - $\Delta$  interval
- Safety locking of the  $\Delta$  output

**E** Triggering  
Function (page \*)

**E**

**A**

**E**

**A**

**Y**

**Time range**  
★ TF60 setting (page \*)

0,5s-30min  
s, min

0,3s-30min.  
s, min ★

AE2 0,8s-1,5min  
AE2M 0,1-12min

AA2 0,8s-1,5min  
AA2M 0,1-12min

t  $\Delta$  0,5-60s  
t  $\Delta$ - $\Delta$  50/100ms

$\mu$ ' MAX

6A 250V~

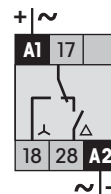
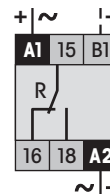
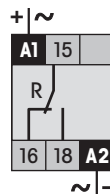
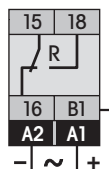
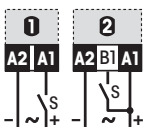
6A 250V~

10A 250V~

10A 250V~

6A 250V~

Triggering



AC 50/60Hz

UC AC/DC

AC 230V

AC 115V

UC 24V

AC 230V

AC 115V

UC 24V

AC 220-240V

AC 110-127V

UC 24V

AC 220-240V

AC 110-127V

UC 24V

UC110-240V

UC 24-60V

Ordering no.

CRE1 / ...V

CRA1 / ...V

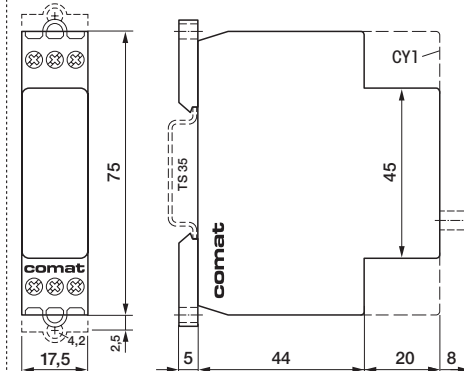
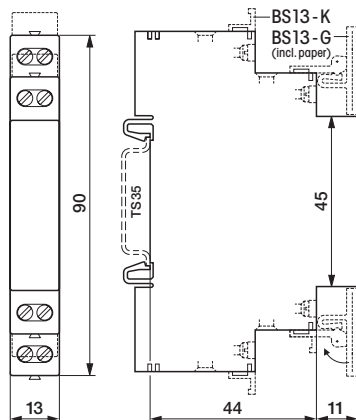
AE2 / ...V  
AE2M / ...V

AA2 / ...V  
AA2M / ...V

CY1 / ...V

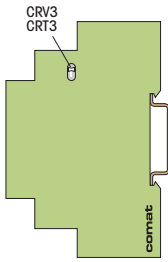
Ordering example

Timer CRE1/AC230V



Multifunctional Time Delay Relays

13mm SLIM BUT.....



CRV1

Economy Time Delay and Blinker Relay

- 3 functions
- voltage controlled
- LED for R



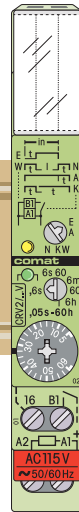
0,5s-30 min  
s, min

6A 250V~



AC 230V  
AC 115V  
UC 24V

CRV1 / ... V



CRV2

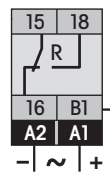
Universal Multifunctional Time Delay Relay

- 2 delay functions
- 2 shot timing modes
- pulse shaping K
- LED for B1 and R



0,05s-60 h  
s, min, h \*

6A 250V~



AC 230V  
AC 115V  
UC 24V

CRV2 / ... V



CSV2

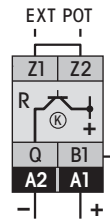
Multifunctional Time Delay Relay

like CRV2, but with solidstate output and connection for remote potentiometer.



8ms-10h  
s, min, h \*

1,5A 24V=



DC 24V

CSV2 / ... V



CRV3

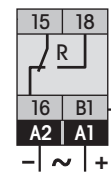
Double Time Delay Relay

- F (E and A) or Q (W and N)
- t1/t2 separately settable
- LED for B1 and R
- Function switch at the right side of the device



t1: 50ms-60h  
t2: 50ms-60h \*

6A 250V~



AC 230V  
AC 115V  
UC 24V

CRV3 / ... V



CRT3

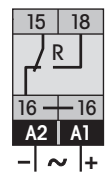
Universal Repeat Cycle Timer

- Pulse or pause start
- t1/t2 separately settable
- LED for A1 and R
- Function switch at the right side of the device



t1: 50ms-60h  
t2: 50ms-60h \*

6A 250V~



AC 230V  
AC 115V  
UC 24V

CRT3 / ... V

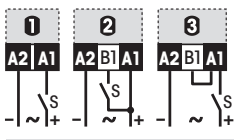
Extra slim 13mm Time Delay Relay System for all timing functions from 50ms up to 60 hours. With only 13mm fitting width especially suited for use in the industrial inter-face sector.

E 1 Triggering Function (page \*)

Time range \* TF60 setting (page \*)

μs MAX

Triggering

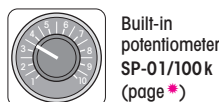
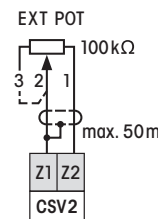
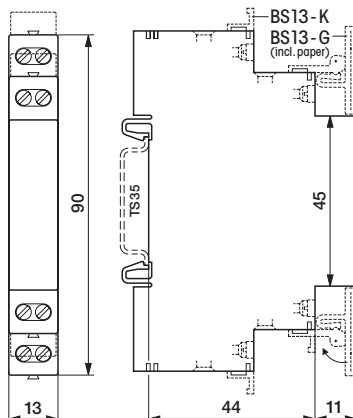


AC 50/60Hz  
UC AC/DC  
DC 10%

Ordering no.

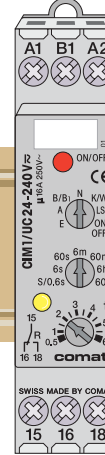
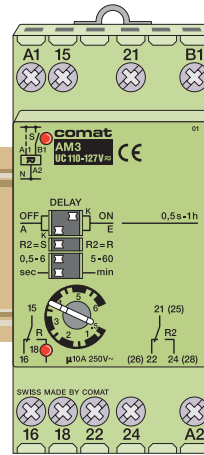
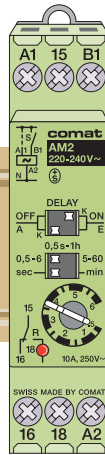
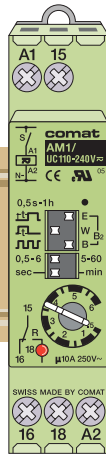
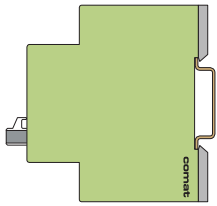
Ordering example

Timer CRV1/AC230V



# Multifunctional Time Delay Relays Universal Function Relay

**NEW**



17,5 mm  
time delay relay system  
in compact design.

Suited for snap-on installation in accordance with DIN 43 880. CIM1 mit Treppenhauseautomat und Schrittschalter.

## AM1

### Economy Time Delay and Blinker Relay

- on delay
- one shot leading edge
- 2 blinker functions
- Output-LED

## AM2

### Universal Time Delay Relay

- on delay
- off delay
- one shot leading edge
- pulse shaping K
- voltage controlled
- Output-LED

## AM3

### Universal Time Delay Relay with instantaneous contact or both contacts delayed (programmable).

Functions like type AM2. Display of control input B1 (S) in addition to the output-LED.

## CIM1

### Universal Function Relay

- 9 functions
- stepping switch (S)
- staircase lighting timer (LS)
- 1 change-over contact
- hand function switch for maintenance functions (ON/OFF)

**E** ① Triggering  
Function (page \*)

**E W B B2** ①

**E** ②③  
**A K** ② **W** ③

**E** ②③  
**A K** ② **W** ③

**E** ① **B W** ③  
**A K N B1 S LS** ②

Time range  
Partial ranges

0,5 s - 60 min  
0,5 - 6 s... 5 - 60 min

0,5 s - 60 min  
0,5 - 6 s... 5 - 60 min

0,5 s - 60 min  
0,5 - 6 s... 5 - 60 min

0,6 s - 60 h  
sec, min, h

μ MAX

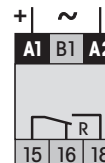
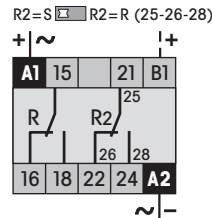
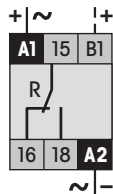
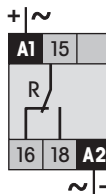
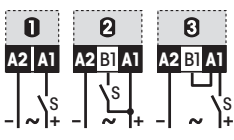
10 A 250 V ~

10 A 250 V ~

10 A 250 V ~

16 A 250 V ~

Triggering



~ AC 50/60 Hz

~ UC AC/DC

UC110-240 V

UC24-60 V

AC220-240 V

AC110-127 V

UC24-60 V

AC220-240 V

UC110-127 V

UC24-60 V,

UC24-240 V

Ordering no. →

AM1 / ... V

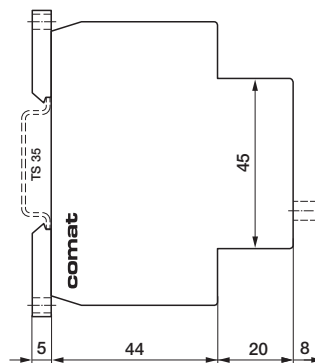
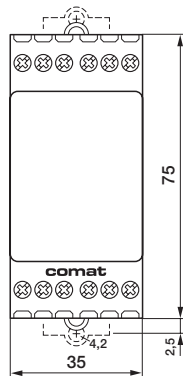
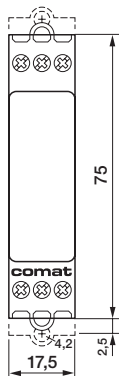
AM2 / ... V

AM3 / ... V

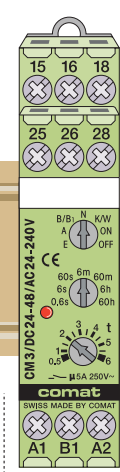
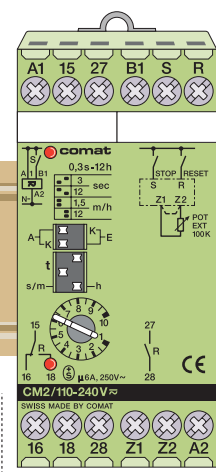
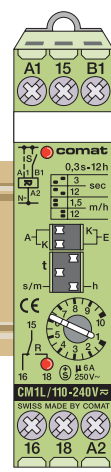
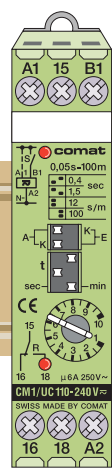
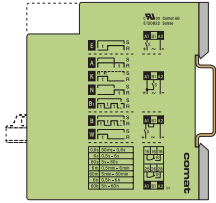
CIM1 / ... V

Ordering example

Universal function relay  
CIM1/UC24-240 V



Multifunctional Time Delay Relays



17,5 mm  
Time Delay Relay System  
in compact design.  
(For snap-on installation in  
accordance with DIN 43 880,  
see series DINA and C13.)

CM1

**Universal Time Delay Relay**

- on delay
- off delay
- one shot leading edge
- pulse shaping K
- voltage controlled
- LED for B1 and R

CM1L

**Universal Time Delay Relay**  
like type CM1, but with extended  
time range.

CM2

**Universal Time Delay Relay**  
like type CM1, but with time  
stop and reset input  
as well as  
connection for remote  
potentiometer 100k.

CM3

**Universal Time Delay Relay**

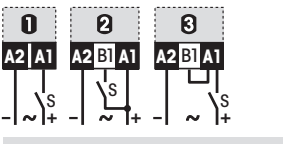
- 7 functions
- Maintenance switch ON/OFF
- 2 separate change-over contacts
- supply voltages:  
DC12-24V or  
DC24-48V/AC24-240V

**E** 1 Triggering  
Function (page 7)

Time range  
Partial ranges



Triggering



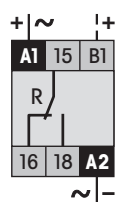
UC AC/DC  
DC 10%

Ordering no. →

**E** 23  
**A** **K** 2 **W** 3

50 ms-100 min  
ms, s, min

6 A 250V~



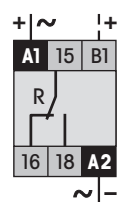
UC110-240V 16<sup>2</sup>/s...60Hz  
UC24-60V

CM1/...V

**E** 23  
**A** **K** 2 **W** 3

0,3s-12h  
s, min, h

6 A 250V~



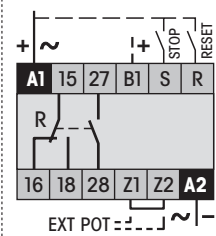
UC110-240V 16<sup>2</sup>/s...60Hz  
UC24-60V

CM1L/...V

**E** 23  
**A** **K** 2 **W** 3

0,3s-12h  
0,3-3s...1,2-12h

6 A 250V~



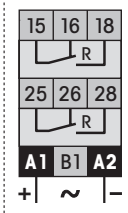
UC110-240V  
UC24-60V

CM2/...V

**E** 1  
**A** **K** **N** **B1** 2 **B** **W** 3

50 ms-60h  
ms, s, min, h

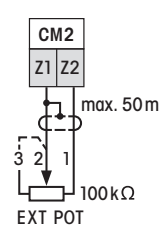
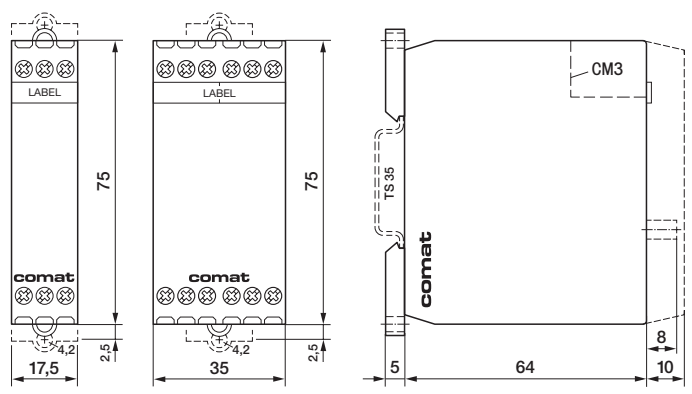
5 A 250V~



DC24-48V/AC24-240V  
DC12-24V

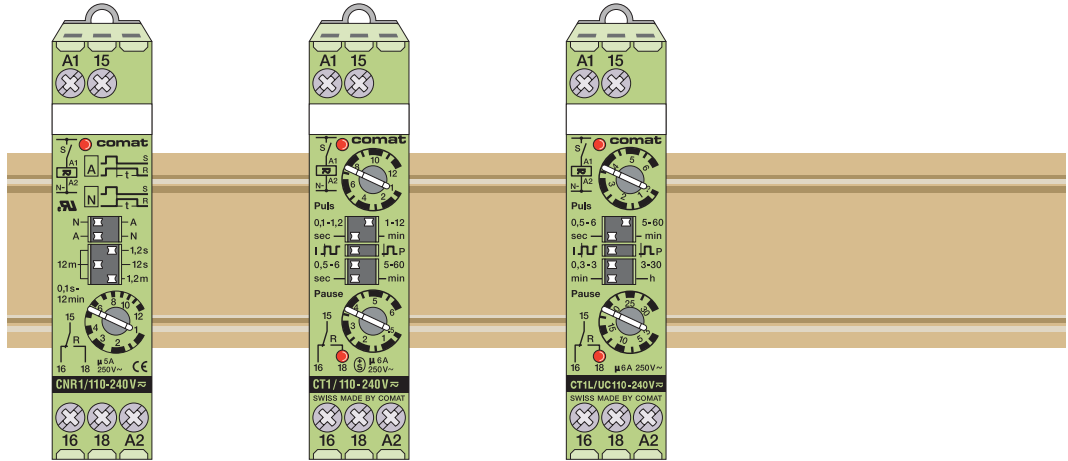
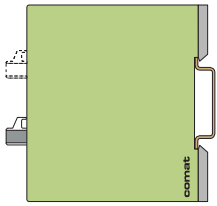
CM3/...V

Ordering example  
Timer CM1/UC110-240V



Built-in  
potentiometer  
SP-01/100k  
(page 7)

# Multifunctional Time Delay Relays



17,5mm  
Time Delay Relay System  
in compact design.  
(For snap-on installation in  
accordance with DIN 43 880.)

## CNR1

**Time Delay Relay,  
no auxiliary voltage**

- Function runs after cut off power supply
- Minimum triggering time 150 ms only

## CT1

**Universal Repeat Cycle  
Timer**

- pulse or pause start
- t1/t2 separately settable
- LED for A1 and R

## CT1L

**Universal Repeat Cycle  
Timer**

Like CT1 but with extended  
time range.

**E** **0** Triggering  
Function (page \*)

**A N** **0**  
no auxiliary voltage

**I P** **0**

**I P** **0**

**Time range**  
Partial ranges

t1: 0,1s-12 min  
sec, min

t1: 0,1s-12 min  
t2: 0,5s-60 min

t1: 0,5s-60 min  
t2: 0,3 min-30 h

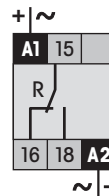
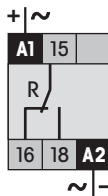
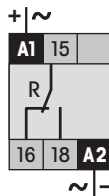
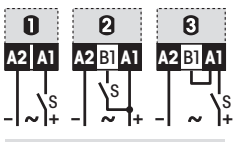
μ<sup>1</sup> MAX

5A 250V~

6A 250V~

6A 250V~

Triggering



UC AC/DC

UC110-240V  
UC24-60V

UC110-240V  
UC24-60V

UC110-240V  
UC24-60V

Ordering no. →

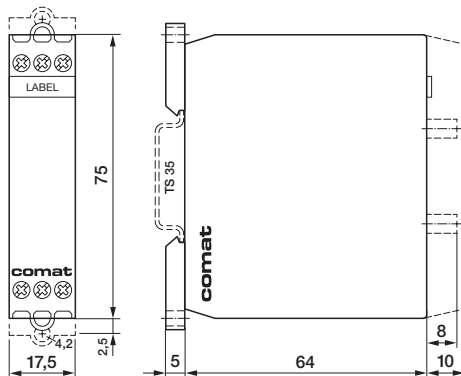
CNR1 / ... V

CT1 / ... V

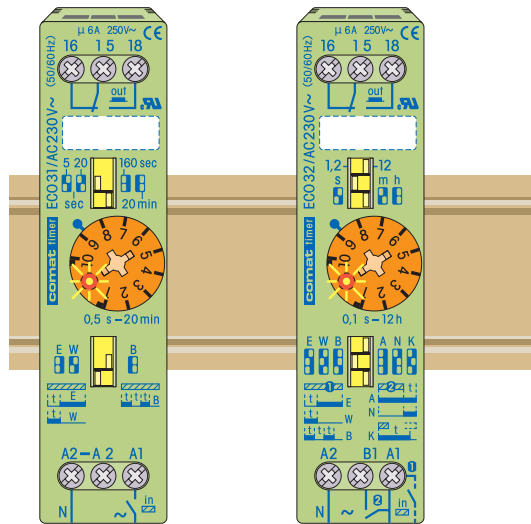
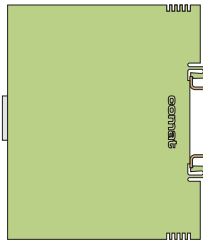
CT1L / ... V

Ordering example

Timer CIM1/UC24-240V



# Multifunctional Time Delay Relays



Multifunctional Time Delay Relays 22,5mm for timing functions from 0,1s up to 12 hours.

## ECO31

### Economy Time Delay and Blinker Relay

- 3 functions
- voltage controlled
- LED for R

## ECO32

### Multifunctional Time Delay Relay

- 2 delay functions
- 2 shot timing modes
- blinker pulse shaping K
- LED for R

**E** **0** Triggering  
Function (page \*)

**E W B** **0**

**E W B** **0**  
**A K N** **2**

Time range  
★ TF60 setting (page \*)

0,5s - 20min  
sec, min

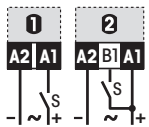
0,1s - 12h ★  
sec, h

μ MAX

6A 250V ~

6A 250V ~

Triggering



~ AC 50/60Hz

AC 230V

AC 230V

~ UC AC/DC

AC 115V

AC 115V

UC 24V

UC 24V

Ordering no. →

ECO31 / ... V

ECO32 / ... V

Ordering example

Timer ECO31/AC 230 V

