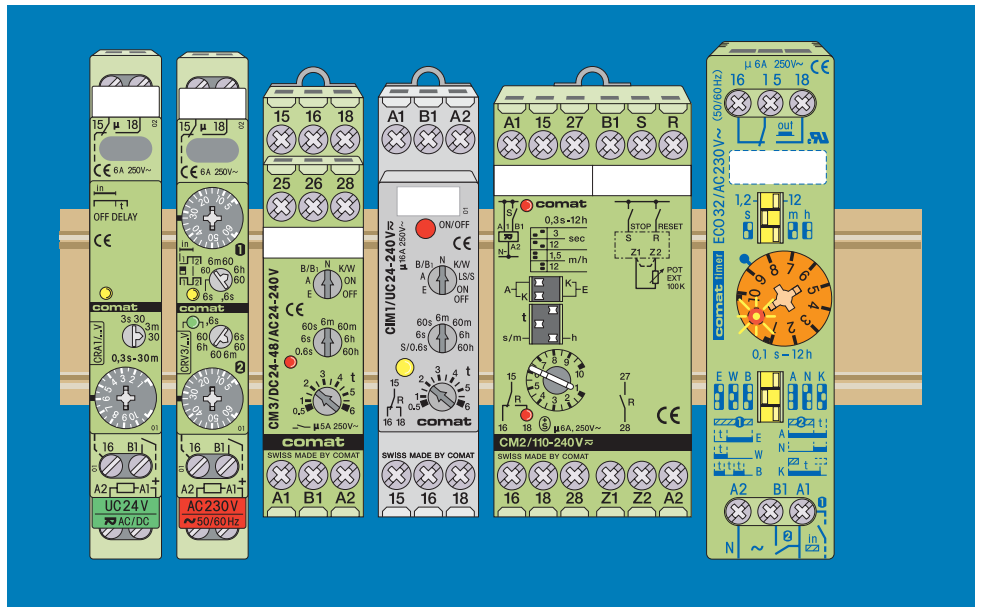


Time delay Relays

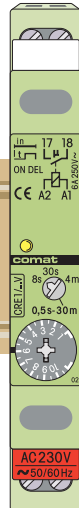
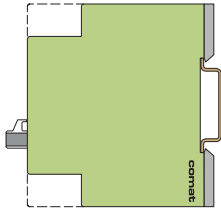
DIN Time Delay Relays



DIN

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

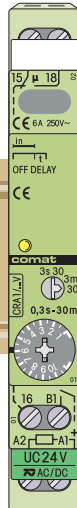
DIN Time Delay Relays (mono-function)



CRE1

Economy time delay relay

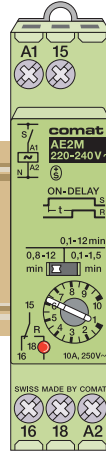
- on delay
- voltage controlled
- LED for R.



CRA1

Economy time delay relay

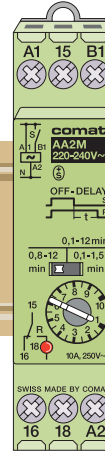
- off delay
- voltage controlled
- LED for R



**AE2
AE2M**

Economy time delay relay

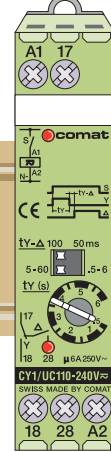
- on delay
- voltage controlled
- 1 changeover contact
- Output-LED



**AA2
AA2M**

Economy time delay relay

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



CY1

Star-delta time delay relay

- with adjustable Δ - Δ interval
- Safety locking of the Δ output

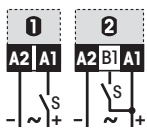
Economy Time Delay Relays
 Only 13 or 17,5mm wide.
 Ideal for applications with a fixed function E, A or Y.
 For snap-on installation in accordance with DIN 43880.

E-0 Triggering
 Function (page *)

Time range
 ★ TF60 setting (page *)

μ' MAX

Triggering



E-0

0,5s-30min
s, min

6A 250V~

A-0

0,3s-30min.
s, min ★

6A 250V~

E-0

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

10A 250V~

A-0

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

10A 250V~

Y-0

t Δ 0,5-60s
t Δ - Δ 50/100ms

6A 250V~

~ 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

UC 110-240V

UC 24-60V

Ordering no. →

CRE1 / ...V

CRA1 / ...V

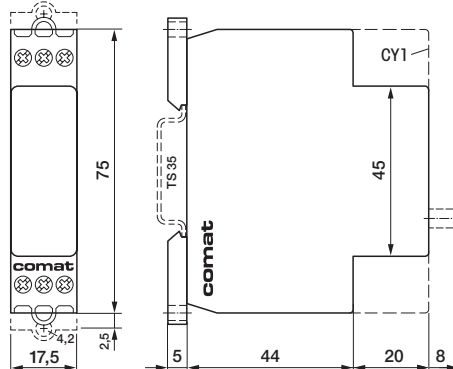
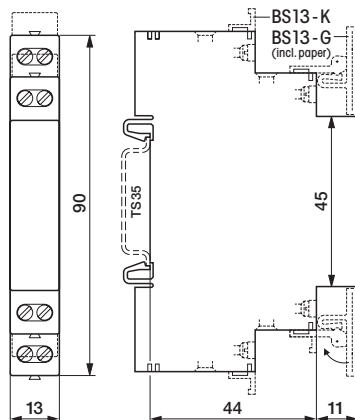
AE2 / ...V
AE2M / ...V

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

CY1 / ...V

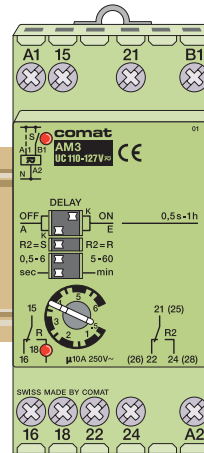
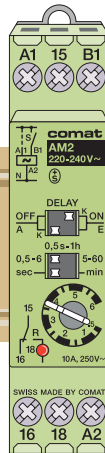
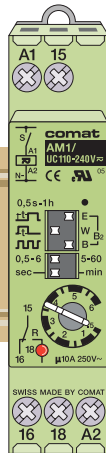
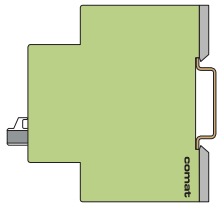
Ordering example

Timer CRE1/AC230V



Multifunctional Time Delay Relays Universal Function Relay

NEW



17,5mm
time delay relay system
in compact design.
Suited for snap-on installation in
accordance with DIN 43 880.
CIM1 mit Treppenhauseinsatz und
Schriftschalter.

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 3)

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

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

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

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

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

μ' MAX

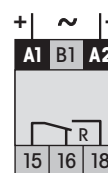
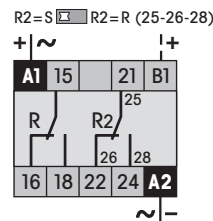
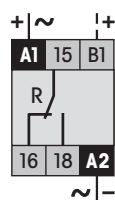
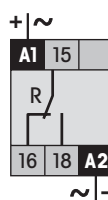
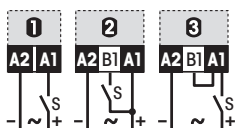
10A 250V~

10A 250V~

10A 250V~

16A 250V~

Triggering



~ AC 50/60Hz

~ UC AC/DC

UC110-240V

UC24-60V

AC220-240V

AC110-127V

UC24-60V

AC220-240V

UC110-127V

UC24-60V,

UC24-240V

Ordering no. →

AM1 / ...V

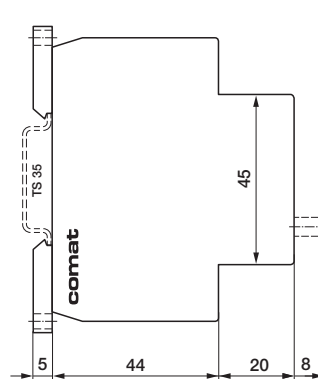
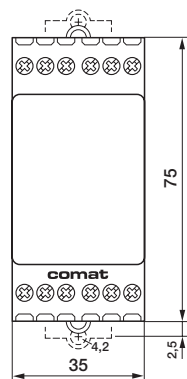
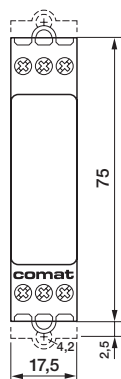
AM2 / ...V

AM3 / ...V

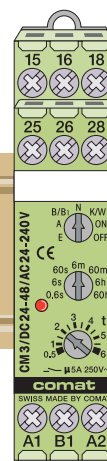
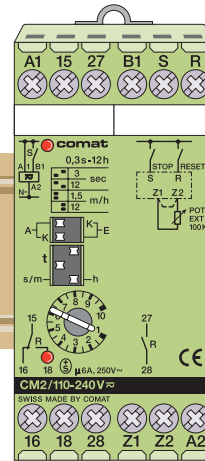
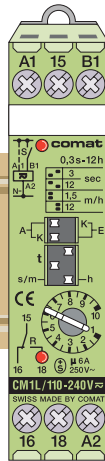
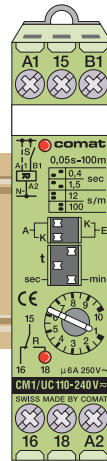
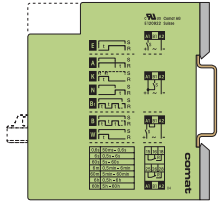
CIM1 / ...V

Ordering example

**Universal function relay
CIM1/UC24-240V**



Multifunctional Time Delay Relays



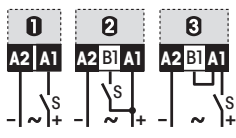
17,5 mm
Time Delay Relay System
in compact design.
(For snap-on installation in
accordance with DIN 43 880,
see series DINA and C13.)

E-0 Triggering
Function (page 7)

Time range
Partial ranges

μs MAX

Triggering



UC AC/DC
DC 10%

Ordering no. →

CM1

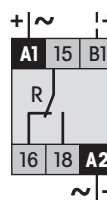
Universal Time Delay Relay

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

E-23
A K-2 W-3

50 ms-100 min
ms, s, min

6 A 250V~



UC110-240V 16²/s...60Hz
UC24-60V

CM1/...V

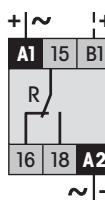
CM1L

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

E-23
A K-2 W-3

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

6 A 250V~



UC110-240V 16²/s...60Hz
UC24-60V

CM1L/...V

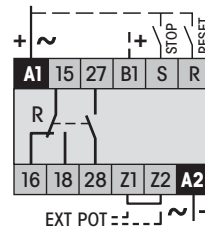
CM2

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

E-23
A K-2 W-3

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

6 A 250V~



UC110-240V
UC24-60V

CM2/...V

CM3

Universal Time Delay Relay

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

E-0
A K N B1-2 B W-3

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

5 A 250V~

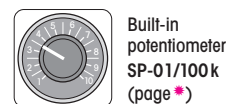
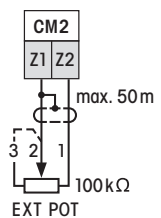
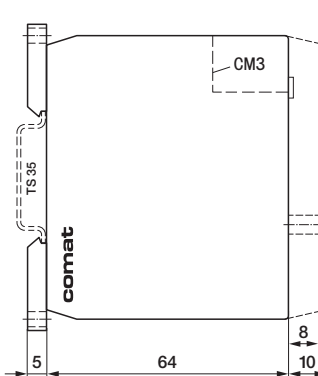
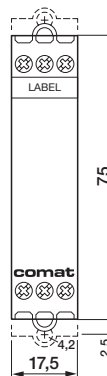


DC24-48V/AC24-240V
DC12-24V

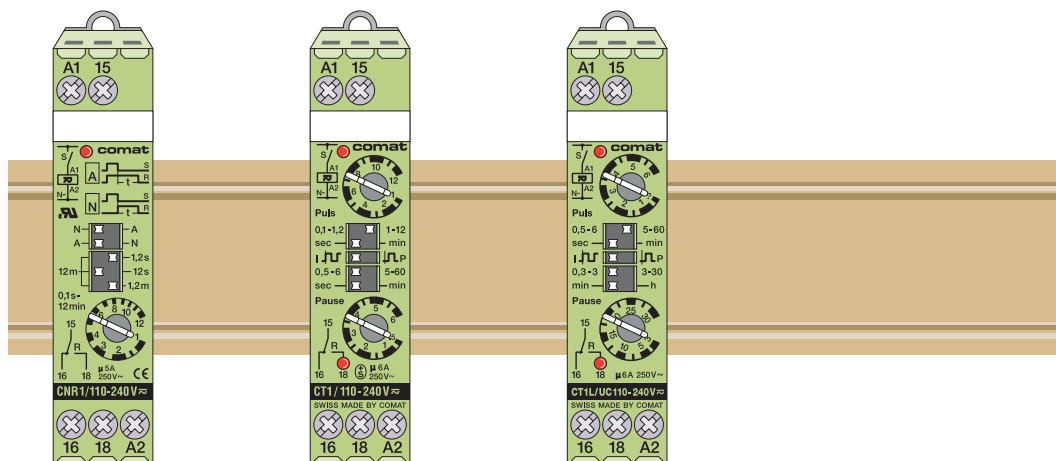
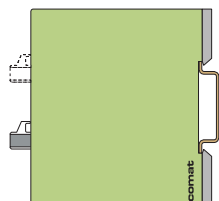
CM3/...V

Ordering example

Timer CM1/UC110-240V



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 buth with extended
time range.

E-0 Triggering
Function (page 13)

A N-0
no auxiliary voltage

I P-0

I P-0

Time range
Partial ranges

0,1s-12 min
sec, min

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

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

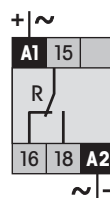
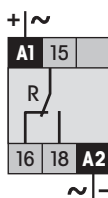
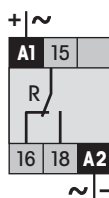
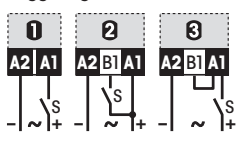
μ MAX

5A 250V~

6A 250V~

6A 250V~

Triggering



UC AC/DC

UC110-240V
UC24-60V

UC110-240V
UC24-60V

UC110-240V
UC24-60V

Ordering no. →

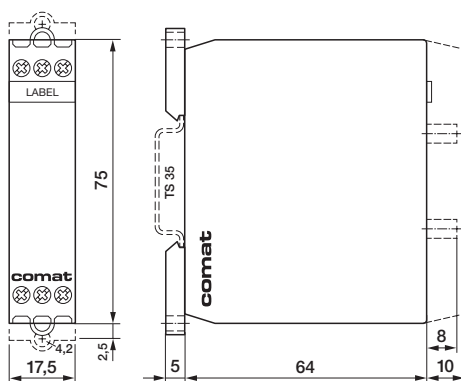
CNR1 / ... V

CT1 / ... V

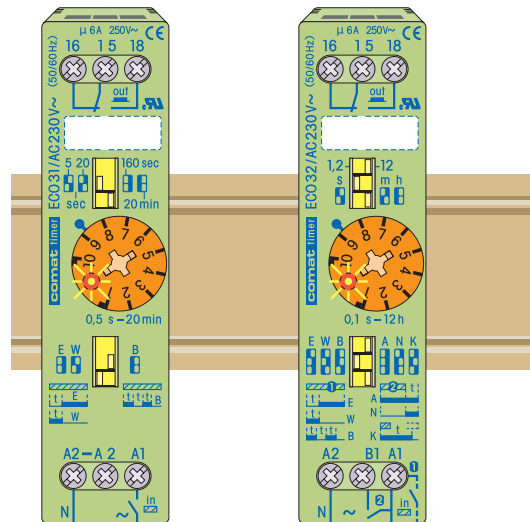
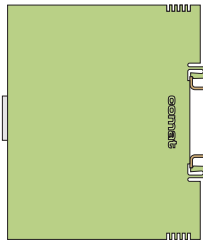
CT1L / ... V

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 ❸)

Time range
★ TF60 setting (page ❸)

E W B **0**

0,5s-20min
sec, min

E W B **0**

A K N **2**

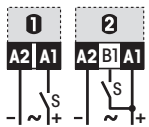
0,1s-12h ★
sec, h

μ MAX

6A 250V~

6A 250V~

Triggering



~ AC 50/60Hz

~ UC AC/DC

AC 230V

AC 115V

UC 24V

AC 230V

AC 115V

UC 24V

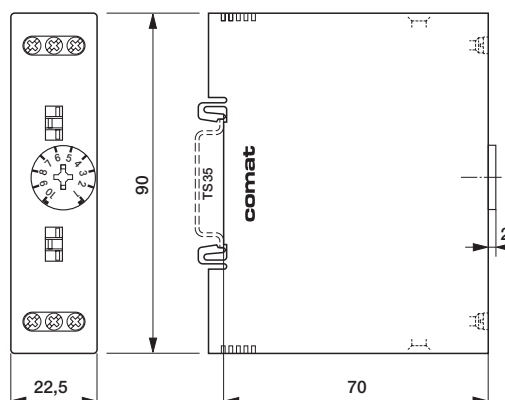
Ordering no. ➔

ECO31 / ... V

ECO32 / ... V

Ordering example

Timer ECO31/AC 230V





Kühn Controls AG

Notes:

You want more information about this product, please call us: tel: +49 (0)7082-940000
or send us a fax: +49 (0)7082-940001, or email: sales@kuehn-controls.de or visit our
Website: www.kuehn-controls.de