

2.5 Time Modules



The modular timer system consists of individual plug-in timer modules with front cover, an 11-pole plug-in relay and a system socket with retaining spring.

The individual combination allows an optimal device selection for the foreseen application.

Later modifications as for example an exchange of relay from mechanical contacts to a relay with solid-state outputs are possible at any time. The user profits of a universal system of worldwide unique flexibility.





The modular Comat timer CT System

The time delay relays and monitoring relays consist of plug-in CT electronic modules and 11-pole output relays. Both system components can be combined in a variety of combinations. This allows adapting the system for the specific application.

Subsequent modifications, for example a change from mechanical contacts to solid-state outputs, are possible at any time just by replacing the relay.

This system provides the user a complete universal system with worldwide unmatched flexibility.



The system sockets C12B0 or C-155 serve as a basis for the secure reception of the electronic modules. The sockets have a 4-pole module slot in which the CT modules lock firmly and vibration proof also without the output relay. Contact is made with reliable twin knife contacts.

With the A2 connector bridge "C-A2", the neutral conductor (N/-) can be connected from socket to socket. It reduces wiring work considerably.

Robust terminals for wires up to 4 mm² and spacious labeling are other advantages of this practical Comat modular system.

Clear markings close to the terminal connections on the sockets make it easy to identify the connections for wiring and servicing.

The CT modules are proof of the practical oriented experiences of Comat in the field of industrial electronics. All control and display elements are arranged easy accessible at all times on the front side of the modules. The functions and settings are self-explanatory schematically illustrated on the front and allow to review the set values also during operation.

A transparent cover over the module setting components provides protection from unintentional settings and additionally links the module to the output relay.

Triggering is performed with the operating voltage. (L1 or +). No potentialfree contacts are therefore required. The triggering complies to machine standards. Parallel connection to B1 is admissible.

The wide UC voltage range (AC/DC) of the modules give a wide flexibility. It permits the connection to AC or DC supplies and provides a high level of reliability in triggering.

Note: In case of even wider voltage ranges, for example UC 24-240V, triggering currents on B1 are often in the range of 100µA with simultaneous low threshold voltages of less than 20V. Due to capacitive or inductive pickups this may lead to unintentional triggering or switching errors caused by insufficient load on the control contacts (It is not seldom that 50V or more can be measured in open lines).

The output relays show the connection diagram and the technical values on the front side, (exception C3 and C5 relays). A color code indicates an AC coil with red and a DC coil with blue color. Most of the relays have a lockable test button for manual operation .

The standard contacts have proven its reliability for high switching current applications over many years. The contact material AgNi permits a wide switching range and due to the large dimensioning they are designed for a high number of switching cycles. The high breaking capacity of up to 10A/400V and a low load switching capability of 12V/10mA makes the contact suitable for the use in main circuits as well as for low voltage applications.

The twin contacts are switching the load circuit with 2 independent contact tongues. The switching safety for low currents is therefore 100 times higher compared to a single contact relay. Despite the high switching capacity of up to 6A/250V, these contacts are very suitable to switch low currents and voltages up to 1mA/6V.

The solid-state relays are an alternative to mechanical relays. In the standard version, the relay has a potential-free universal semiconductor output for AC or DC loads. The advantage is a bouncing- and wear-free, overload resistant, short circuit protected output with a practical unlimited life cycle.

Solid-state relays are specially recommended for applications of high switching cycles, for example for repeat cycle timers, flushing lights, but also for high inductive switching loads of solenoid valves, couplings, motors, etc. The solid state relays are also suitable for capacitive loads, for example long power lines, or compensated lighting circuits.

Additional protection circuits of the output or of the load are not necessary in any application for this type of Comat relays.

The solid-state relays are insensitive in any aggressive environment such as chemical plants, sewage plants etc. and are therefore an excellent choice for the employment in such environments.



The train symbol indicates products available in a special railway execution according EN 50155. Please refer to our special railway brochure for details.

CT30, CT32, CT33, CT36 Plug-in time modules (combined with industrial relays)



Туре СТЗО

CT30, CT32, CT33, CT36, /...V R

Plug-in time modules for sockets with module slot in combination with plug-in relays. Power supply and control voltages 24 \dots 240 V. Time ranges 30 ms up to 60 h. LED output state indicator.

Time functions and related connection diagrams (Function diagrams: refer to page 152)



Time Relays 2.5

2

Economy E W B 0 CT 30 3, 30 /s /min 0.25 s 2.5 30 -25 0 % 0 35 % \pm 0.2 % or 20 ms 0.25 % / K - \leq 200 ms \geq 20 ms UC 24 - 48 V Solid state 150 mA \leq 25 Ω \leq 150 µA	Universal E-2-3 A N K B-2 W B-3 CT 32 1.5, 6, 15, 60 /s /min 0.15 s 1 1 0 -25 0 % 0 25 % \pm 0.2 % or 20 ms 0.1 % / K \ge 30 ms \le 150 ms \ge 20 ms 110 - 240, 115, 230 V Solid state 50 mA \le 100 Ω \le 150 μ A	Universal E 2 8 A N L F K G B Q W H B 3 2 CT33 150, 600 ms 1.5, 6, 15, 60 /s /min /h 30 ms 0.2 1 -25 0 % 0 25 % ± 0.2 % or 20 ms 0.1 % / K ≥ 30 ms ≤ 150 ms ≥ 20 ms	Repeat cycle timer I P -0 CT36 2 × 600 ms 2 × 6, 60 /s /min /h 2 × 50 ms 2 × 5 60 -25 0 % 0 25 % ± 0.2 % or 20 ms 0.1 % / K - ≤ 150 ms ≥ 20 ms				
CT 30 3, 30 /s /min 0.25 s 2.5 30 -25 0 % 0 35 % ± 0.2 % or 20 ms 0.25 % / K - ≤ 200 ms ≥ 20 ms UC 24 - 48 V Solid state 150 mA ≤ 25 Ω ≤ 150 µA	A N K B + 2 W B - 3 CT 32 1.5, 6, 15, 60 /s /min 0.15 s 1 1 0 -25 0 % 0 25 % ± 0.2 % or 20 ms 0.1 % / K ≥ 30 ms ≤ 150 ms ≥ 20 ms 110 - 240, 115, 230 V Solid state 50 mA ≤ 100 Ω	A N L F K G B1 Q W H B G Q Q CT33 150, 600 ms 1.5, 6, 15, 60 /s /min /h 30 ms 0.2 1 -25 0 % 0 25 % ± 0.2 % or 20 ms 0.1 % / K ≥ 30 ms ≤ 150 ms ≤	CT36 2 × 600 ms 2 × 6, 60 /s /min /h 2 × 50 ms 2 × 5 60 -25 0 % 0 25 % ± 0.2 % or 20 ms 0.1 % / K - ≤ 150 ms				
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Solid state 150 mA ≤ 25 Ω ≤ 150 μA	Solid state 50 mA ≤ 100 Ω						
150 mA ≤ 25 Ω ≤ 150 μA	50 mA ≤ 100 Ω						
≤ 25 Ω ≤ 150 μA	$\leq 100 \ \Omega$						
≤ 150 μA							
	≤ 150 µA						
C = AC / DC							
CT 30	CT 30	СТ36	CT36				
UC 24 – 48 V	UC 110 – 240 V	UC 24 – 48 V	UC 110 – 240 V				
19 75 V	90 265 V	1960 V	82 265 V				
3 5 mA	2 4 mA	6 12 mA	4 8 mA				
СТ32, СТ33	CT32, CT33	СТ32, СТ33					
UC 24 – 48 V	UC 115 V	UC 230 V					
19 60 V	90 150 V	180 265 V					
$\leq 9 V$	≤ 60 V	≤ 100 V					
5 11 mA	4 7 mA	1 4 mA					
		Dimensions [mm]					
n	-40 85 °C / -40 60 °	C addedd					
	IP 40 when plugged in	×					
	Lexan						
	25 g						
CT3x/UC24-48V R		<u></u>					
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CT3x/UC110-240V R		Toobrical approve	le conformitico				
CT3x/UC110-240V R CT3x/UC115V R		recnnical approva	is, conformities				
	CT3x/UC110-240V R	IP 40 when plugged in Lexan 25 g CT3x/UC24-48V R CT3x/UC110-240V R CT3x/UC115V R	CT3x/UC24-48V R CT3x/UC110-240V R				



Time Delay Relay-Set Relay, Module and Socket



Relay data's see: Section industrial Relays I MAX μ) MIN

Timer-Modul (Function diagrams: refer to page 152)

E Triggering 0 Function see page 152 A2 A1 □ R2(R3) = Time function as R1

A2 B1 A1 A2 B1 A1 R2(R3) = Instantaneous contact

Time range

0.25-3s...

2,5-30min

Time range

0.15s-60min

0,15-1,5s...

6-60 min

Time range

12-60h

Time range

5-60h

2x50ms-60h

2x 50-600ms...

30ms-60h

30-150 ms...

0,25s-30min

0

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CT30 Economy timer

CE

3 functions, voltage controlled, output LED. Seismic approved.

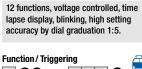
Function / Triggering EWB

CT32 Universal timer

7 functions, voltage controlled, time lapse display, blinking. Seismic approved.

Function / Triggering E - 2-8 A N K B1 2 W B 🔂

CT33 Universal timer



E 00 W H B 🔂 A N L F K G B1 Q 🕑 FQ t2=t1 GH t2=0,5s

CT36 Repeat cycle timer

Pulse or pause start. t1/t2 separately settable. Time lapse display t1/t2.

Function / Triggering I P-O

Power Relay ┢┦┾╎┾╎┶



C3-A30X

Universal

Power Relay 10A. With 3 power changeover-contacts this is the robust relay for AC and DC circuits ranging from 10 mA 10 V.

10A~ 10 mA 10 V

9 38 18 16 μ R +

Set Order-Nr.: CT30.3-A30/...V R AC 24, 48, 115, 230V

DC 24, 48, 110, 220V

Delivery includes:

- Relay C3-A30X/...V R Module CT30/...V R
- Front cover FS-R
- Socket C12B0 R · Retaining clip S3-C

Set Order-Nr.:

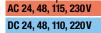
CT32.3-A30/...VR AC 24, 48, 115, 230V DC 24, 48, 110, 220V

Delivery includes:

- Relay C3-A30X/...V R
- Module CT32/...V R · Front cover FS-R
- Socket C12B0 R
- Retaining clip S3-C

Set Order-Nr.:

CT33.3-A30/...VR



Delivery includes:

- Relay C3-A30X/...V R • Module CT33/...V R
- Front cover FS-R
- Socket C12B0 R
- Retaining clip S3-C

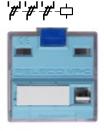
Set Order-Nr.:

CT36.3-A30/V R
•
AC 24, 48, 115, 230 V
DC 24, 48, 110, 220 V
Delivery includes: • Relay C3-A30Y/ V R

3-A30X/...V R

- Module CT36/...V R • Front cover FS-R
- Socket C12B0 R
- · Retaining clip S3-C

Control Relay



C3-T31X

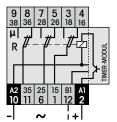
Relav with 3 twin contacts 6A The control relay with highest

switching reliablility for control

and signal circuits ranging from 5mA 5V. 6A 250V~

5 mA 5V

Set Order-Nr.:



CT30.3-T31/...V R AC 24, 48, 115, 230V DC24, 48, 110, 220V **Delivery includes:** • Relay C3-T31X/...V R Module CT30/...V R • Front cover FS-R Socket C12B0 R · Retaining clip S3-C Set Order-Nr.: CT32.3-T31/...V R

AC 24, 48, 115, 230V DC 24, 48, 110, 220V

Delivery includes:

- Relay C3-T31X/...V R
 Module CT32/...V R
- · Front cover FS-R
- Socket C12B0 R
- Retaining clip S3-C

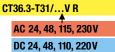
Set Order-Nr.:

- CT33.3-T31/...V R AC 24, 48, 115, 230V
- DC 24, 48, 110, 220V

Delivery includes:

- Relay C3-T31X/...V R
- Module CT33/...V R Front cover FS-R
- Socket C12B0 R
- Retaining clip S3-C

Set Order-Nr.:



Delivery includes:

- Relay C3-T31X/...V R
 Module CT36/...V R
- · Front cover FS-R
- Socket C12B0 R · Retaining clip S3-C

Signal Relay '**#[|] '#[|] #|-⇔ 10µAu**

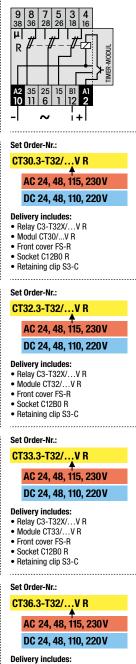


C3-T32X

Relay with 3 twin contacts, 10µ gold flush

The twin contact relay with highest switching reliability for signal circuits ranging from 1mA 5V. Recommend. upto 0,2A 30V.

6A 250V~ 1mA 5V





- Module CT36/...V R
- Front cover FS-R
- Socket C12B0 R · Retaining clip S3-C

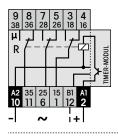
Power Relay '/-'/-/-/-

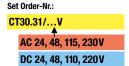


C31L

Universal Power Relay 10A with 3 power changeover-contacts this is the robust relay for AC and DC circuits ranging from 50 mA 10 V.

10 A 250V~ 50 mA 10 V





Delivery includes:

- Relay C31L/...V
 Module CT30/...V
- Front cover FS-C
 Socket C12B0

Retaining clip HF-32

Set Order-Nr.: CT32.31/...V AC 24, 48, 115, 230V DC 24, 48, 110, 220 V

Delivery includes:

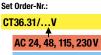
- Relay C31L/...V
 Module CT32/...V
 Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

СТ	33.31/ <mark>.</mark> V
	••••••
	AC 24, 48, 115, 230V
	DC 24, 48, 110, 220 V
-	in a luda a

• Relay C31L/...V

- Module CT33/...V
- Front cover FS-C Socket C12B0
- Retaining clip HF-32



DC 24, 48, 110, 220V

Delivery includes: Relay C31L/...V
 Modul CT36/...V • Front cover FS-C Socket C12B0

• Retaining clip HF-32

Control Relay '#'#'#-⇔

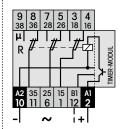


C32L

Relay with

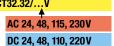
3 twin contacts 6A The control relay with highest switching reliablility for control and signal circuits ranging from 10 mA 5V.

6A 250V~ 10 mA 5V



Set Order-Nr.:
CT30.32/V
•
AC 24, 48, 115, 230V
DC 24, 48, 110, 220 V
Delivery includes:
 Relay C32L/V
Module CT30/V
 Front cover FS-C
 Socket C12B0

 Retaining clip HF-32
Set Order-Nr.:
CT32.32/V



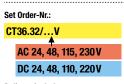
Delivery includes:

- Relay C32L/...V
 Module CT32/...V
 Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

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Set Order-Nr.:
CT33.32/V
A
AC 24, 48, 115, 230V
DC 24, 48, 110, 220V
Ballinen haladaa

- Relay C32L/...V
- Module CT33/...V
- · Front cover FS-C Socket C12B0
- Retaining clip HF-32



- Delivery includes: Relay C32L/...V
 Module CT36/...V
- Front cover FS-C
- Socket C12B0 • Retaining clip HF-32

Time Relays 2.5

2

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Time Delay Relay-Set Relay, Module and Socket



µ) MIN

Time range

0.25-3s...

2.5-30min

Time range

0,15-1,5s...

6-60 min

Time range

12-60h

Time range

5-60h

2x50ms-60h

2x 50-600 ms...

30 ms-60 h

30-150ms...

0.15s-60min

0,25s-30min

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CE

Timer-Modul (Function diagrams: refer to page 152)

E Triggering	0000
Function see page 152	A2 A1 A2 B1 A1 A2 B1
□ R2(R3) = Time function as R1 □ R2(R3) = Instantaneous contact	

CT30 Economy timer

3 functions, voltage controlled, output LED. Seismic approved.



CT32 Universal timer

7 functions, voltage controlled, time lapse display, blinking. Seismic approved.

Function / Triggering E-2-3 A N K B1-2 W B-3

CT33 Universal timer



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CT36 Repeat cycle timer

Pulse or pause start. t1/t2 separately settable. Time lapse display t1/t2.

Function / Triggering

High Power Relay DC

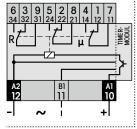
ピーチャーク 16A 400V~

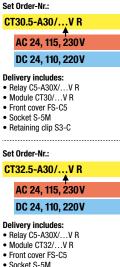


C5-A30X

Universal Power Relay 16 A With 3 power changeover-contacts this is the robust relay for AC and DC circuits ranging from 10 mA 10V.







Socket S-5MRetaining clip S3-C

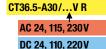
Set Order-Nr.:

CT33.5-A30/V R
AC 24, 115, 230V
DC 24, 110, 220V

Delivery includes: • Relay C5-A30X/...V R

- neray C5-A30X/...V R
 Module CT33/...V R
- Front cover FS-C5
 Socket S-5M
- Socket S-5M
 Retaining clip S3-C
-

Set Order-Nr.:



Delivery includes:

Relay C5-A30X/...V R
Module CT36/...V R

- Front cover FS-C5
- Socket S-5M
 Retaining clip S3-C

High Power Relay DC

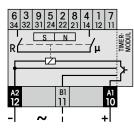
]-ф 10A @220V--



C5-M10X

Highpower Relay, in particular for DC loads upto 10A 220V---- (DC1) With 2 NO contacts in series and a blow magnet for safe arc extinguishing.

16 A 400 V ~ 10 mA 10 V



Set Order-Nr.: CT30.5-M10/...V R

AC 24, 230V

DC 24, 48, 110, 220 V

Delivery includes:

- Relay C5-M10X/...V R
 Module CT30/...V R
- Front cover FS-C5
- Socket S-5MRetaining clip S3-C

Set Order-Nr.:

CT32.5-M10/...V R AC 24, 230V

DC 24, 48, 110, 220V

Delivery includes:

- Relay C5-M10X/...V R
 Module CT32/...V R
- Front cover FS-C5
- Socket S-5MRetaining clip S3-C

Set Order-Nr.: CT33.5-M10/...V R AC 24, 230V

DC 24, 48, 110, 220V

Delivery includes:

- Relay C5-M10X/...V R
- Module CT33/...V R
 Front cover FS-C5
- Socket S-5M
- Retaining clip S3-C

Set Order-Nr.:

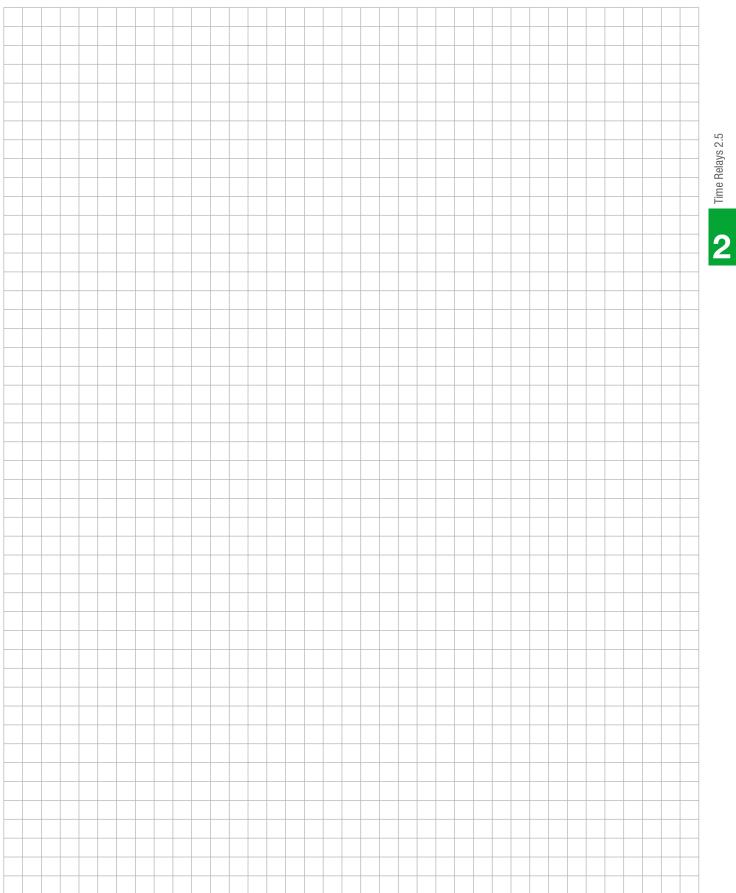
CT36.5-M10/...V R AC 24, 230V DC 24, 48, 110, 220V Delivery includes: • Relay C5-M10X/...V R • Module CT36/...V R

Retaining clip S3-C

This issue replaces all previous issues. Availability, errors and specifications subject to change without notice.



Notes





Notes

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