

2.1 Time Cubes

Timecube







Notes

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Timecube®

CT2, CT3

8-pin and 11-pin Timecube®

Type: CT2: 8 pole, CT3: 11 pole

The CT2 or CT3 Timecube[®] is an electronic timer that is inserted between the plug-in industrial relay and the socket. This combination is a modular complete time relay without additional space requirement. It offers up to three changeover contacts with a variety of signal contacts and power contacts.

The Timecubes® are suitable for all 8 pin and 11 pin standard industrial relays of the C2 and C3 series according to IEC 67 and also for relays of other manufacturers.

3 sec

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≤ 200 ms

≤ 80 ms

t_{min} ... t_{max}, 2 ... 30

± 0.5 % or ± 20 ms

5 ms (except the relay)

t_{min}: 0 ... + 35 %

Time functions (Function diagrams: refer to page 130)

Operating voltage controlled types CT2- / CT3-E30: Function E, on delay CT2- / CT3-W30: Function W. one shot CT2- / CT3-B30: Function B, blinker

Trigger input controlled types CT2- / CT3-A30, off delay CT2- / CT3-K30, pulse shaping

30 sec

3 min

30 min





CT3 (11-pin)

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Socke

Only A, K

RELAY

Time data

4 partial time ranges (DIP switch)

Fine adjustment time range (rotary knob) Time range tolerance Repetition accuracy Reset time Reset time B1 (trigg. inp.) A, K Voltage failure buffering

Power supply- and control input (UC = AC or DC) CT2-/CT3-.../S

CT2-/CT3-.../L CT2- / CT3- ... / M CT2-/CT3-.../U CT2-/CT3-.../H Residual current E, W, B Residual current B1 (trigg. inp.) A, K

DC 9.5 ... 18 V UC 20 ... 65 V UC 90 ... 150 V UC 180 ... 265 V UC 90 ... 265 V $\leq 0.3 \text{ mA}$ $\leq 0.2 \text{ mA}$

12 mA 6 mA 2 mA 2 mA

2 mA

General specifications

Ambient temperature storage / operation Ingress protection degree Housing material Weight

-40 ... +70 °C / -25 ... +60 °C IP40 Lexan 35 g

Standard types

UC 50 Hz / 60 Hz: 20 ... 265 V DC 12 V

8 pole	11 pole	Voltage
CT2-E30/S CT2-W30/S CT2-B30/S CT2-A30/S CT2-K30/S	CT3-E30/S CT3-W30/S CT3-B30/S CT3-A30/S CT3-K30/S	DC 9.518 V
CT2-E30/L CT2-W30/L CT2-B30/L CT2-A30/L CT2-K30/L	CT3-E30/L CT3-W30/L CT3-B30/L CT3-A30/L CT3-K30/L	UC 2065 V
CT2-A30/M CT2-K30/M	CT3-A30/M CT3-K30/M	UC 90150 V
CT2-A30/U CT2-K30/U	CT3-A30/U CT3-K30/U	UC 180265 V
CT2-E30/H CT2-W30/H CT2-B30/H	CT3-E30/H CT3-W30/H CT3-B30/H	UC 90265 V

Dimensions [mm]

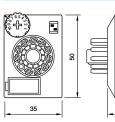
Wiring diagram

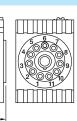
RELAY

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CT2 (8-pin)

<u>[h†fi]</u>





Only 11-pin version shown. The dimension of the 8-pin version are identical

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Technical approvals, conformities

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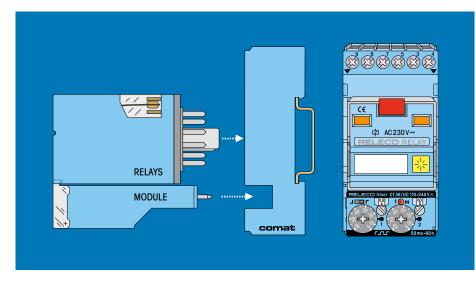
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2.2 Time Modules

Modular plug-in Time Relays (CT-System)





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.

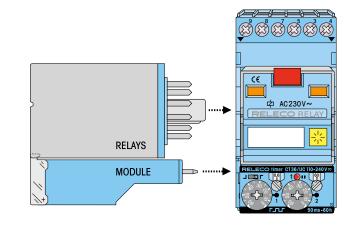
A transparent cover over the module setting components provides protection from unintentional settings and additionally links the module to the output relay.

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

Blue: CT30, CT32, CT33, CT36, /...V R Green: CT30, CT32, CT33, CT36, /...V

Plug-in time modules for sockets with module slot in combination with plug-in relays. Power supply and control voltages 24 ... 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 130)



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ype CT 30 CT 32 CT 33 CT 36 Partial ime ranges, t _{max} 3, 0 /s /min 1.5, 6, 15, 60 /s /min 150, 600 ms 2 × 600 ms<	- ~) [*] - ~ + - ,	~) <u></u> +		W B S	W H B 8 0	
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tmax 035 % 025 % 025 % 025 % ± 0.2 % or 20 ms	Fine adj. range t _{min}	. t _{max}	2.5 30		0.2 1	2 x 5 60
Repetition accuracy ± 0.2 % or 20 ms ± 0.1 % or 20 ms ± 0.2 % or 20 ms ± 0.1 % or 20 ms ± 0.2 % or 20 ms ± 0.2 % or 20 ms ± 0.2 % or 20 ms ± 0.0 % or 20 ms ± 0.1 % or 20 ms	Time range tolerance	e t _{min}	-25 0 %	-25 0 %	-25 0 %	-25 0 %
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Aeset time pow. supply ≤ 200 ms ≤ 150 ms ≤ 150 ms ≤ 150 ms ≤ 20 ms ≥ 20 ms	Min. trigger pulse wic	lth B1	-	≥ 30 ms	≥ 30 ms	-
totage failure buffering ≥ 20 ms Dubut data Mominal voltage UC 24 - 48 V 110 - 240, 115, 230 V Solid state			≤ 200 ms	≤ 150 ms	≤ 150 ms	≤ 150 ms
Nominal voltage UC 24 - 48 V 110 - 240, 115, 230 V Spec Solid state Solid state Solid state Solid state State operational current 150 mA In-state resistance ≤ 25 Ω state operational current ≤ 150 µA Power supply and control input (UC = AC / DC) ype CT 30 CT 30 CT 36 UC 24 - 48 V UC 110 - 240 V Operating voltage range 19 75 V Stapply current 3 5 mA 3 5 mA 2 4 mA 6 12 mA 4 8 mA Vipe CT32, CT33 UC 230 V Stapply current 5 11 mA 4 7 mA 10 265 °C / -40 60 °C 190 265 °C / -40 60 °C Standard types CT33, UC24-48 V UC 115 V Standard types CT33, UC24-48 V UC 110 76 °C / -40 60 °C IP 40 when plugged in Lexan 25 g Standard types CT33, UC24-48 V R CT3x/UC116-240 V CT30, CT36, UC110-240 CT3x/UC116 V R CT3x	Voltage failure bufferin	ng	≥ 20 ms	≥ 20 ms	≥ 20 ms	≥ 20 ms
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Dn-state resistance .eakage current ≤ 25 Ω ≤ 150 μA ≤ 100 Ω ≤ 150 μA Oower supply and control input (UC = AC / DC) Vpe CT 30 UC 24 - 48 V UC 110 - 240 V CT36 UC 24 - 48 V UC 110 - 240 V CT36 UC 24 - 48 V UC 24 - 48 V CT36 UC 110 - 240 V Operating voltage range 19 75 V 90 265 V 1960 V 82 265 V Supply current 3 5 mA 2 4 mA 6 12 mA 4 8 mA Ype CT32, CT33 Wominal voltage range UC 24 - 48 V UC 115 V UC 230 V 82 265 V Supply current 5 11 mA 4 7 mA 1 4 mA 5 10 V 80 265 V Supply current 5 11 mA 4 7 mA 1 4 mA 1 4 mA Seneral Specification wholent temperature storage /operation ousing material -40 85 °C / -40 60 °C IP 40 when plugged in Lexan Dimensions [mm] Standard types CT30, CT32, CT33, UC13- CT32, UC130, UC24-48 V CT32, UC110-240 V CT32, UC130, UC110-240 V CT32, UC130, UC110-240 V CT32, UC130, UC110-240 V CT32, UC130, V CT32, UC150 V CT32, UC150, V Technical approvals, conformities Standard types CT32, CT33, UC155 This module is part of several ready for connection units consisting of CT32, UC130 V Remark: This module is part of several ready for connection units consisting o	Туре		Solid state	Solid state		
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Operating voltage range 1975 ∨ 90265 ∨ 1960 ∨ 82265 ∨ Supply current 35 mA 24 mA 612 mA 48 mA Vpe CT32, CT33 UC 24 - 48 ∨ UC 115 ∨ UC 230 ∨ Supply current 501 0 × 5.0.01 15 ∨ 180265 ∨ 5.00 ∨ Supply current 511 mA 47 mA 14 mA Seneral Specification -4085 °C / -4060 °C 1960 °C 104 mA Seneral Specification -4085 °C / -4060 °C 1960 °C 104 mA Seneral Specification -4085 °C / -4060 °C 1960 °C 1960 °C Numbient temperature storage /operation Lexan 25 g 1025 °C 1026 °C Standard types Blue Green CT3x/UC24-48V R CT3x/UC24-48V C CT3x/UC110-240V C CT30, CT36, UC110-240 CT3x/UC110-240V R CT3x/UC110-240V R CT3x/UC110-240V C T3x/UC110-240V C CT32, CT33, UC135 Discould to several ready for connection units consisting of Technical approvals, conformities Remark: This module is part of several ready for connection units consisting of <td< td=""><td>Туре</td><td></td><td>CT 30</td><td>CT 30</td><td>СТ36</td><td>CT36</td></td<>	Туре		CT 30	CT 30	СТ36	CT36
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Nominal voltageUC 24 - 48 VUC 115 VUC 230 VDeperating voltage range19 60 V90 150 V180 265 VInput B1 inactive≤ 9 V≤ 60 V≤ 100 VSupply current5 11 mA4 7 mA1 4 mAGeneral Specification moress Protection degree tousing material Weight-40 85 °C / -40 60 °C IP 40 when plugged in Lexan 25 gDimensions [mm]Standard types CT30, CT32, CT33, CT36, UC24-48 CT32, CT33, UC115 CT32, CT33, UC115 CT32, CT33, UC115 CT32, CT33, UC230Blue CT3x/UC24-48V R CT3x/UC24-48V R CT3x/UC110-240V R CT3x/UC110-240V CT3x/UC115V R CT3x/UC230VUC 230 V 180 265 V ≤ 100 VRemark:This module is part of several ready for connection units consisting ofUC 230 V 180 265 V ≤ 100 VUC 230 V 180 265 V ≤ 100 V	Supply current		3 5 mA	2 4 mA	6 12 mA	4 8 mA
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Supply current5 11 mA4 7 mA1 4 mAGeneral Specification Mubient temperature storage /operation ngress Protection degree Housing material Weight-40 85 °C / -40 60 °C IP 40 when plugged in Lexan 25 gDimensions [mm]Standard types CT30, CT32, CT33, CT36, UC24-48 CT33, UC110-240V CT32, CT33, UC115 CT32, CT33, UC230Blue CT3x/UC24-48V R CT3x/UC110-240V R CT3x/UC110-240V R CT3x/UC110-240V R CT3x/UC115V R CT3x/UC230V RGreen CT3x/UC115V CT3x/UC115V CT3x/UC115V CT3x/UC230VTechnical approvals, conformitiesRemark:This module is part of several ready for connection units consisting ofCC SN /CC SN /	Operating voltage rar	nge	19 60 V	90 150 V	180 265 V	
General Specification Ambient temperature storage /operation Ingress Protection degree Housing material Weight Standard types CT30, CT32, CT33, CT36, UC24-48 CT30, CT32, CT33, CT36, UC24-48 CT31, UC110-2400 CT32, CT33, UC115 CT32, CT33, UC115 CT32, CT33, UC230 Blue CT31, UC110-2400 R CT31, UC115 V R CT31, UC230V R <td>Input B1 inactive</td> <td></td> <td>$\leq 9 V$</td> <td>≤ 60 V</td> <td>≤ 100 V</td> <td></td>	Input B1 inactive		$\leq 9 V$	≤ 60 V	≤ 100 V	
Ambient temperature storage /operation horess Protection degree Housing material Weight	Supply current		5 11 mA	4 7 mA	1 4 mA	
IP 40 when plugged in Lexan 25 g Standard types Standard types CT30, CT32, CT33, CT36, UC24-48 CT3x/UC24-48V R CT3x/UC24-48V R CT3x/UC24-48V R CT3x/UC110-240V CT3x/UC110-240V CT3x/UC110-240V CT3x/UC110-240V CT3x/UC115V R CT3x/UC115V CT3x/UC230V R CT3x/UC230V CT3x/UC230V CT3x/UC230V CT3x/UC230V CT3x/UC230V CT3x/UC230V CT3x/UC230V						
Here's Protection degree HP40 when plugged in Lexan Veight 25 g Standard types Blue Green CT30, CT32, CT33, CT36, UC24-48 CT30, CT32, CT33, UC110-2400 CT32, CT33, UC115 CT32, UC110-240V R CT32, CT33, UC115 CT32, UC115V R CT32, CT33, UC230 CT32, CT33, UC230V R CT32, CT33, UC230 R Remark: This module is part of several ready for connection units consisting of	•	0 1	า	-40 85 °C / -40 60 °C		
Housing material Lexan Veight 25 g Standard types Blue Green CT30, CT32, CT33, CT36, UC24-48 CT3x/UC24-48V R CT3x/UC24-48V CT30, CT36, UC110-240 CT3x/UC110-240V R CT3x/UC110-240V CT32, CT33, UC115 CT3x/UC115V R CT3x/UC115V CT32, CT33, UC230 CT3x/UC230V R CT3x/UC230V Remark: This module is part of several ready for connection units consisting of CC SN / C	0	egree		IP 40 when plugged in		
Weight 25 g Standard types Blue Green CT30, CT32, CT33, CT36, UC24-48 CT3x/UC24-48V R CT3x/UC24-48V CT30, CT36, UC110-240 CT3x/UC110-240V R CT3x/UC110-240V CT32, CT33, UC115 CT3x/UC115V R CT3x/UC115V CT32, CT33, UC230 CT3x/UC230V R CT3x/UC230V Remark: This module is part of several ready for connection units consisting of CC SN	Housing material					
Standard types Blue Green CT30, CT32, CT33, CT36, UC24-48 CT3x/UC24-48V R CT3x/UC24-48V CT30, CT36, UC110-240 CT3x/UC110-240V R CT3x/UC110-240V CT32, CT33, UC115 CT3x/UC115V R CT3x/UC115V CT32, CT33, UC230 CT3x/UC230V R CT3x/UC230V Remark: This module is part of several ready for connection units consisting of CC SN/V	Weight			25 g		
CT30, CT36, UC110-240 CT3x/UC110-240V R CT3x/UC110-240V CT32, CT33, UC115 CT3x/UC115V R CT3x/UC115V CT32, CT33, UC230 CT3x/UC230V R CT3x/UC1230V Remark: This module is part of several ready for connection units consisting of CC SN	Standard types					
CT32, CT33, UC115 CT3x/UC115V R CT3x/UC115V CT3x/UC115V CT32, CT33, UC230 CT3x/UC230V R CT3x/UC230V Technical approvals, conformities Remark: This module is part of several ready for connection units consisting of CE SILe CE SILe		•			<u> </u>	
CT32, CT33, UC230 CT3x/UC230V R CT3x/UC230V Remark: This module is part of several ready for connection units consisting of			CT3x/UC110-240V R	CT3x/UC110-240V	38	4 20 54
CT32, CT33, UC230 CT3x/UC230V R CT3x/UC230V Remark: This module is part of several ready for connection units consisting of	CT32, CT33, UC115	5	CT3x/UC115V R	CT3x/UC115V	Technical approva	ls. conformities
Remark: This module is part of several ready for connection units consisting of socket, relay and module. A wide range of suitable relays are available.	CT32, CT33, UC230)	CT3x/UC230V R	CT3x/UC230V		, oomonnitteo
	Remark:			6	(E 🔊 🔊)	

Time Relays 2.2