

2.7 Time Modules CT33R

Multifunction | 24 ... 48 V UC | 115 V UC | 230 V UC



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Time data

Timing functions	fig. 1 2: E, A, K, N, B1, F, G, Q, L 3: E, W, B, H
Timing range	150 ms / 600 ms / 1.5 s / 6 s / 15 s / 60 s / 1.5 min / 6 min / 60 min / 1.5 h / 6 h / 15 h / 60 h
Timing scale	30 ms ... 60 h

Control circuit

Nominal voltage	24 ... 48 V UC	115 V UC	230 V UC
Operating voltage range	19 ... 60 V	90 ... 150 V	180 ... 265 V
Power consumption AC / DC	0.3 VA / 0.3 W	0.5 VA / 0.5 W	1 VA / 1 W
Typ. threshold voltage on command input AC / DC	9 V	60 V	100 V

General data

Ambient temperature storage	-40 ... 85 °C
Ambient temperature operation railway version	-40 ... 70 °C
Module width	fig. 2
Weight	25 g
Protection degree	IP 20
Housing material	PC

Product references

Types	Product reference	24-48	115	230
UC supply	CT33R/UC...V	✓	✓	✓

"..." list control circuit voltage to complete product references.

Other voltages on request. Please contact support@comatreleco.com.

Accessories

Sockets	S3-M0, S5-M
Transparent front cover	FS-C



fig. 1. Wiring diagram

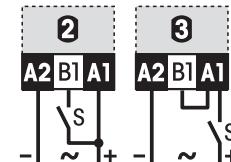
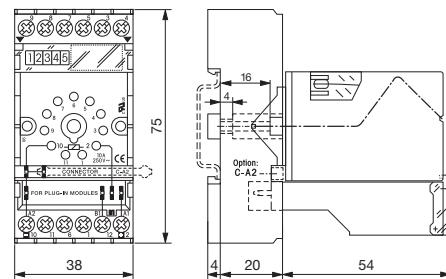


fig. 2. Dimensions (mm)

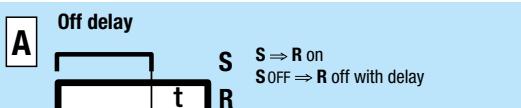


Standards and approvals

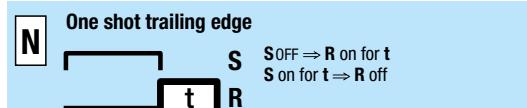
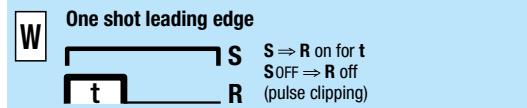
Standards	IEC/EN 50155
Approvals	CE EAC cULus

Time functions

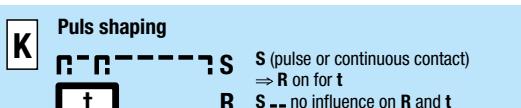
Delay functions



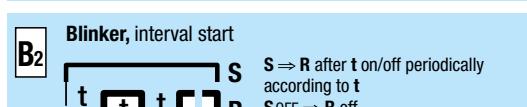
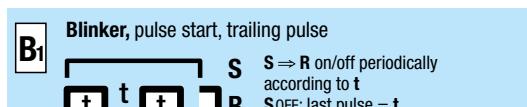
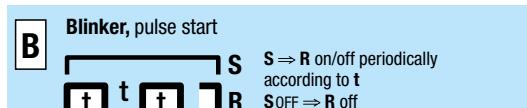
Shot timing modes



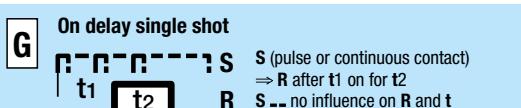
Puls shaping



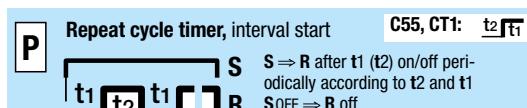
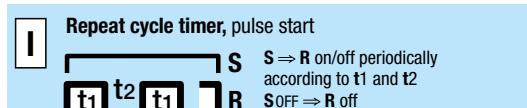
Blinker functions



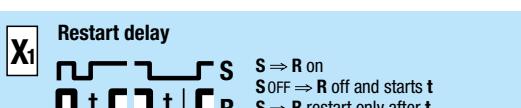
Delayed pulse



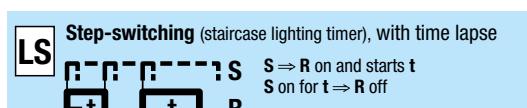
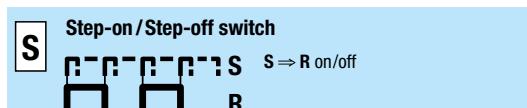
Repeat cycle timer



Special functions



Special functions



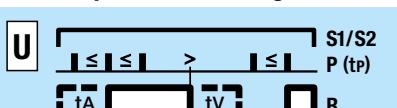
Stop/Reset



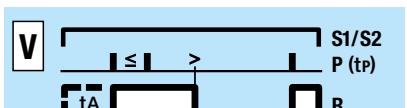
S = Triggering
R = Output circuit
 \Rightarrow = switches...

ON OFF

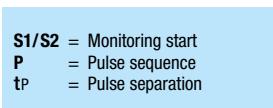
Pulse sequence monitoring



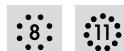
\leq : Pulse separation is smaller than the time tp
 $>$: Pulse separation is larger than the time tp



Start with S1 = without start-up short-out tA
Start with S2 = start-up short-out tA



tv = settable alarm delay
delay (tA - tv)

Time Cubes


Type	Function																		1-Stop	1-Reset	Ext. Poti	t max.					
	E	A	F	W	N	Q	K	L	M	B	B ₁	B ₂	G	H	I	P	S	LS	X ₁	U	V	sec	min	h	d		
CT..-E 30	●																							30			
CT..-A 30		●																						30			
CT..-K 30				●			●																30				
CT..-B 30										●													30				

**Modular plug-in Time Relays
(CT-System)**


Type	Function																		1-Stop	1-Reset	Ext. Poti	t max.				
	E	A	F	W	N	Q	K	L	M	B	B ₁	B ₂	G	H	I	P	S	LS	X ₁	U	V	sec	min	h	d	
CT32...	●	●		●	●		●			●	●												60*			
CT33...	●	●	△	●	●	△	●	●		●	●		▲	▲									60*			
CT36...													●	●									60*			

Plug-in Time Relays


Type	Function																		1-Stop	1-Reset	Ext. Poti	t max.				
	E	A	F	W	N	Q	K	L	M	B	B ₁	B ₂	G	H	I	P	S	LS	X ₁	U	V	sec	min	h	d	
C55	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				60	
C55.3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				60	
C55.4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				60	
C56	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				60	
C64	■			■																			20			
CS2	●	●		●	●		●			●	●											●			60*	
CS3	●	●		●	●		●			●	●														60*	

Plug-in Time Relays


Type	Function																		1-Stop	1-Reset	Ext. Poti	t max.					
	E	A	F	W	N	Q	K	L	M	B	B ₁	B ₂	G	H	I	P	S	LS	X ₁	U	V	sec	min	h	d		
C83	●	●	△	●	●	△	●	●		●	●		▲	▲									60*				
C85		●		●	●		●			●	●		●	●	●	●	●							60*			

DIN Time Relays


Type	Function																		1-Stop	1-Reset	Ext. Poti	t max.					
	E	A	F	W	N	Q	K	L	M	B	B ₁	B ₂	G	H	I	P	S	LS	Y	U	V	sec	min	h	d		
AA2 - AA2M	●																						1,5/12				
AE2 - AE2M	●																						1,5/12				
AL1							●																				
AL3							●										●	●					60				
AL4							●										●	●					60				
AL5													●														
AM1	●		●							●	●												60				
AM2	●	●	●				●																60				
AM3 ¹⁾	●	●	●				●																60				
CM2	●	●	●				●																12				
CM3	●	●	●				●			●	●												60*				
CMD11 A	●																										
CMD11 E	●																										
CIM1	●	●	●	●	●	●	●	●	●	●	●	●					●	●					60*				
CIM12	●	●	●	●	●	●	●	●	●	●	●	●					●	●					60*				
CIM13	●	●	●	●	●	●	●	●	●	●	●	●					●	●					60*				
CIM14	●	●	●	●	●	●	●	●	●	●	●	●					●	●					60*				
CIM2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		60*				
CIM22	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		60*				
CIM23	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		60*				
CIM3		●		●						●	●			●	●	●	●	●					60*				
CIM32		●		●						●	●			●	●	●	●	●					60*				
CIM33		●		●						●	●			●	●	●	●	●					60*				
CRV4	●	●	△	●	●	△	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	60*			
CSV4	●	●	△	●	●	△	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	10*			
CPF11		●								●	●												0.6				
CY1																	●										

¹⁾ alternatively with instantaneous contact

■ without auxiliary voltage (relay bistable)

□ without auxiliary voltage (relay monostable)

△ $t_2 = t_1$

▲ $t_2 = 0.5s$