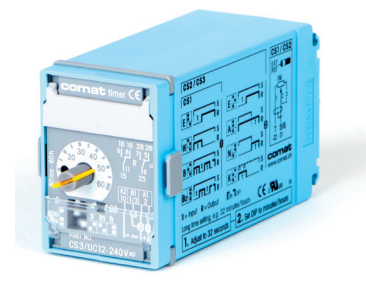


CS3

Multifunction | 12 ... 240 V UC | 2 CO



Time data

Timing functions	fig. 1 1: E, W, B, B2 2: A, E, K, N
Timing range	50 ms ... 60 h
Timing scale	0.6 s / 6 s / 60 s / 6 min / 60 min / 6 h / 60 h

Main circuit

Number of contacts	2 CO
Contact Material	AgNi
Rated voltage	250 V
Rated current	6 A
Minimum load	10 mA, 10 V
Inrush current	10 A, 10 ms
Rated load DC	fig. 2
Rated load AC-1	1500 VA
Mechanical endurance (cycles)	3×10^7
Electrical endurance at rated load AC-1 (cycles)	fig. 3

Control circuit

Nominal voltage	12 ... 240 V UC
Operating voltage range	10.2 ... 265 V
Power consumption AC / DC	0.9 VA / 1.6 W
Typ. input current on command input AC / DC	6 / 2 mA
Typ. threshold voltage on command input AC / DC	6.5 V / 7 V
Rated frequency	45 ... 63 Hz

Insulation

Rated test voltage control / main circuit	2.5 kV rms / 1 min
Rated test voltage main / main circuit	2.5 kV rms / 1 min
Rated test voltage open contact	1 kV rms / 1 min
Pollution degree	2
Overvoltage category	III

General data

Ambient temperature storage	-40 ... 85 °C
Ambient temperature operation	-25 ... 60 °C
Module width	fig. 4
Weight	75 g
Protection degree	IP 20
Housing material	PC

Product references

Types	Product reference	12-240
UC supply	CS3/UC...V	✓

"..." list control circuit voltage to complete product references.
Other voltages on request. Please contact support@comatreleco.com.

Accessories

Sockets	S3-M
Retaining clip	HF-50
Transparent front cover	FA-50
Front panel mounting set	FZ-50L



fig. 1. Wiring diagram

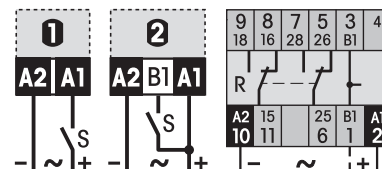


fig. 2. DC load limit curve

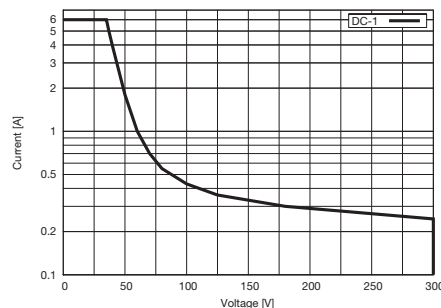


fig. 3. AC voltage endurance

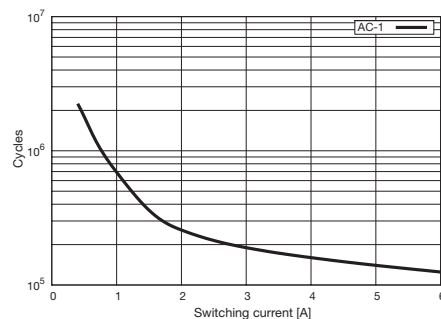
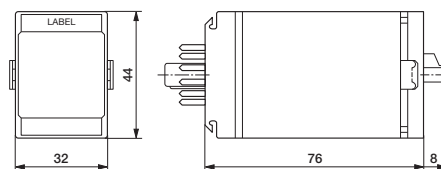


fig. 4. Dimensions (mm)

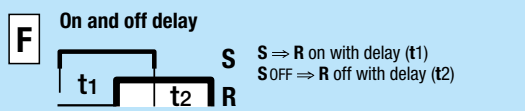
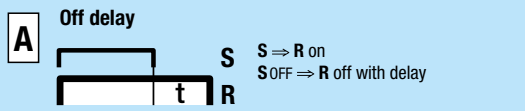
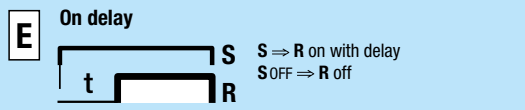


Standards and approvals

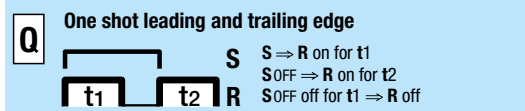
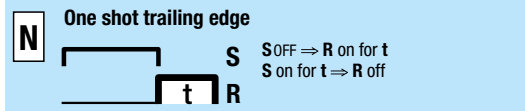
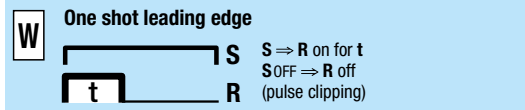
Standards IEC/EN 60947

Approvals CE cRUus

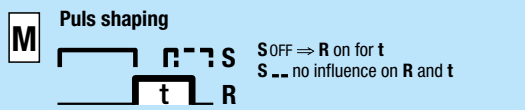
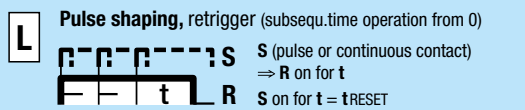
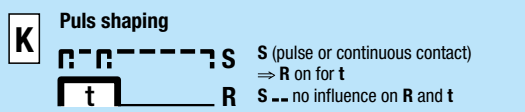
Delay functions



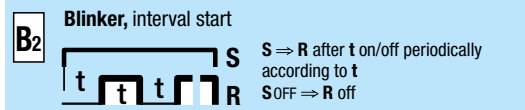
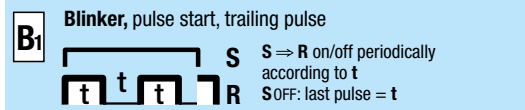
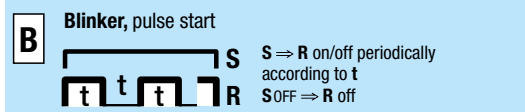
Shot timing modes



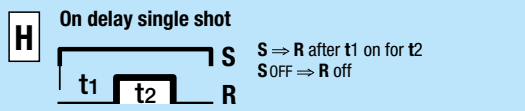
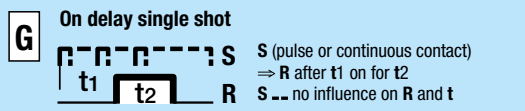
Puls shaping



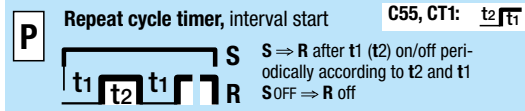
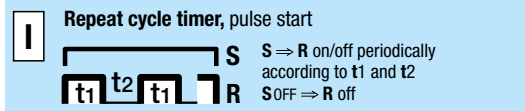
Blinker functions



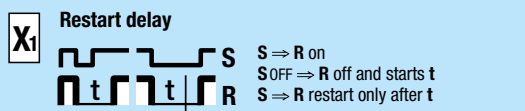
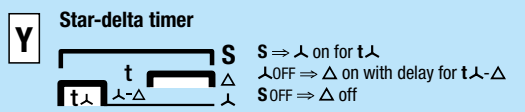
Delayed pulse



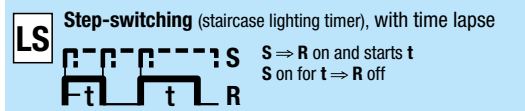
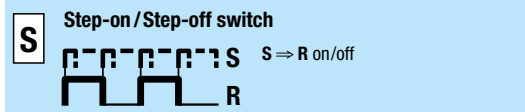
Repeat cycle timer



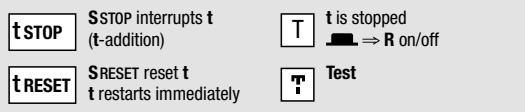
Special functions



Special functions



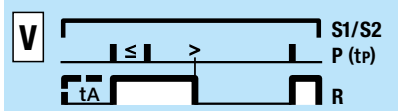
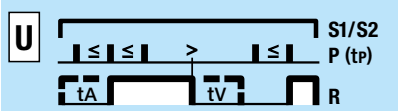
Stop / Reset



S = Triggering
R = Output circuit
⇒ = switches...



Pulse sequence monitoring



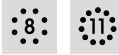
S1/S2 = Monitoring start
P = Pulse sequence
tp = Pulse separation

≤: Pulse separation is **smaller** than the time tp
>: Pulse separation is **larger** than the time tp

Start with S1 = **without** start-up short-out t_A
Start with S2 = start-up short-out t_A

t_v = settable alarm delay
delay (t_A = t_v)

Time Cubes



Type	Function																t-Stop	t-Reset	Ext. PoI	t max.									
	E	A	F	W	N	Q	K	L	M	B	B1	B2	G	H	I	P				S	LS	X1	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																t-Stop	t-Reset	Ext. PoI	t max.									
	E	A	F	W	N	Q	K	L	M	B	B1	B2	G	H	I	P				S	LS	X1	U	V	sec	min	h	d	
CT32...	●	●			●	●				●	●															60*			
CT33...	●	●	△			△				●	●			▲	▲													60*	
CT36...															●	●											60*		

Plug-in Time Relays



Type	Function																t-Stop	t-Reset	Ext. PoI	t max.									
	E	A	F	W	N	Q	K	L	M	B	B1	B2	G	H	I	P				S	LS	X1	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																t-Stop	t-Reset	Ext. PoI	t max.										
	E	A	F	W	N	Q	K	L	M	B	B1	B2	G	H	I	P				S	LS	X1	U	V	sec	min	h	d		
C83	●	●	△			△		●	●		●	●		▲	▲													60*		
C85			●			●								●	●	●													60*	

DIN Time Relays



DIN

Type	Function																t-Stop	t-Reset	Ext. PoI	t max.												
	E	A	F	W	N	Q	K	L	M	B	B1	B2	G	H	I	P				S	LS	Y	U	V	sec	min	h	d				
AA2 - AA2M	●																										1,5/12					
AE2 - AE2M	●																											1,5/12				
AL1									●																			60				
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																		●														

* TF-60 Setting of long times

The TF60 time setting methode permits short examination of long delay time settings. Elapsing times of hours can be monitored in the sec. range.

Example for a delay time of 38h:

1. Set range switch to 60sec
2. Set 38sec on the potentiometer
(e.g. check 38sec by chronometer)
3. Set range switch to 60h

The delay time now amounts to 38h.

- 1) alternatively with instantaneous contact
 ■ without auxiliary voltage (relay bistable)
 □ without auxiliary voltage (relay monostable)

- △ t2 = t1
 ▲ t2 = 0.5s