

C83

Multifunction | 24 ... 240 V UC | 1 CO

Time data

Timing functions	fig. 1 2: E, A, N, L, F, K, G, B1, Q 3: E, W, H, B
Timing range	50 ms ... 0.6 s / 0.5 s ... 6 s / 5 s ... 60 s / 0.5 min ... 6 min / 5 min ... 60 min / 0.5 h ... 6 h / 5 h ... 60 h
Timing scale	0.6 s / 6 s / 60 s / 6 min / 60 min / 6 h / 60 h

Main circuit

Number of contacts	1 CO
Contact material	AgNi
Rated voltage	250 V
Rated current	8 A
Minimum load	10 mA, 10 V
Inrush current	30 A, 10 ms
Rated load DC	fig. 2
Rated load AC-1	2000 VA
Mechanical endurance (cycles)	30 000 000
Electrical endurance at rated load AC-1 (cycles)	fig. 3

Control circuit

Nominal voltage	24 ... 240 V UC
Operating voltage range	20 ... 265 V UC
Power consumption AC / DC	10 VA / 1.8 W
Current consumption on supply A1-A2 AC / DC	< 40 mA / < 35mA
Current consumption on input control B1 AC / DC	6.5 mA / 3.5 mA
Threshold voltage on input control B1 AC/DC, min.	= 0.32 x Operating Voltage + 6
Threshold voltage on input control B1 AC / DC, max.	= 0.38 x Operating Voltage + 9
Rated frequency	0; 45 ... 63 Hz

Insulation

Rated test voltage control / main circuit	2 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 (no ice)	-40 ... 85 °C
Ambient temperature operation	-25 ... 60 °C
Dimensions	fig. 4
Weight	60 g
Protection degree	IP 20
Housing material	PC

Product reference

Description	Type	24-240
UC supply	C83/UC...V	✓

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

Accessories

Socket	S7-C
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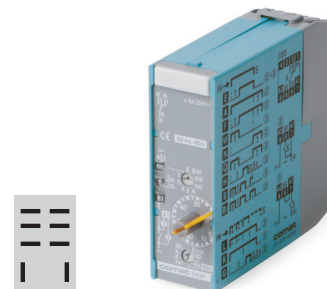


fig. 1. Wiring diagram

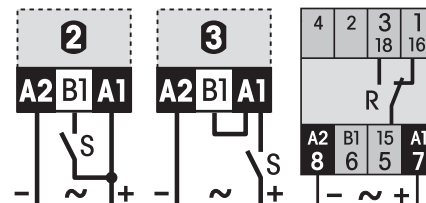


fig. 2. DC load limit curve

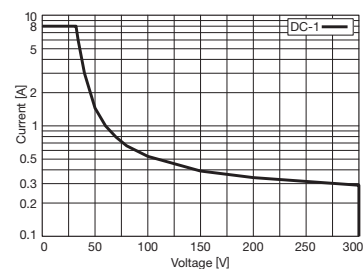


fig. 3. AC voltage endurance

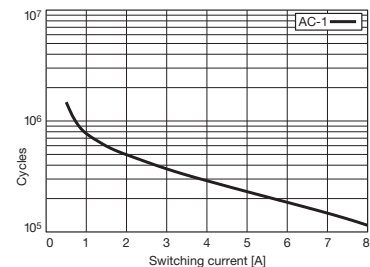
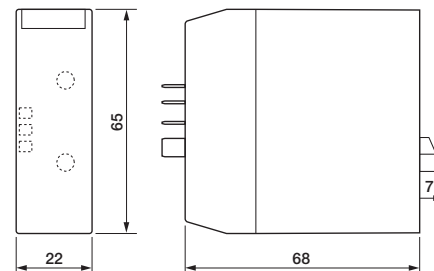


fig. 4. Dimensions (mm)

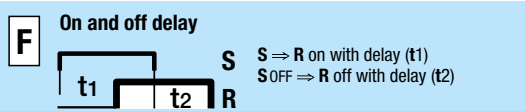
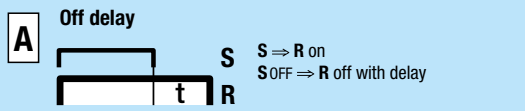
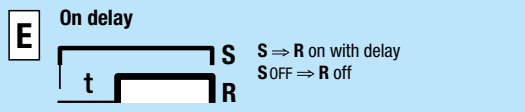


Standards and approvals

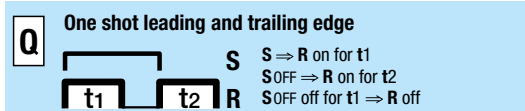
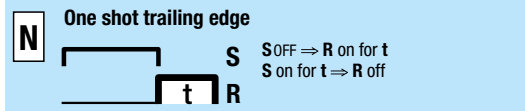
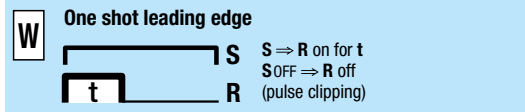
Standards IEC/EN 60947

Approvals

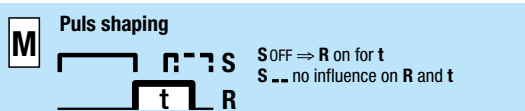
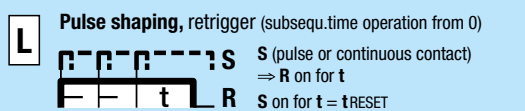
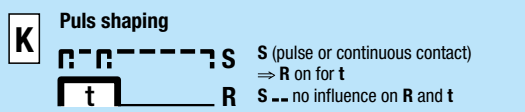
Delay functions



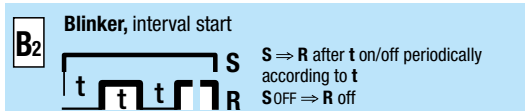
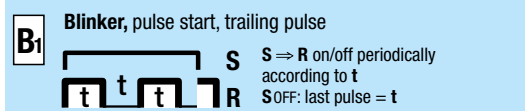
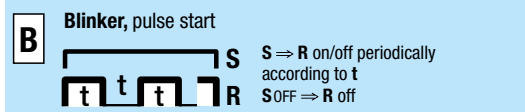
Shot timing modes



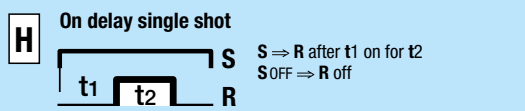
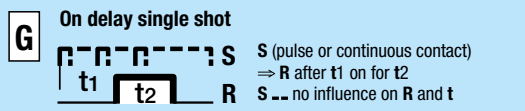
Puls shaping



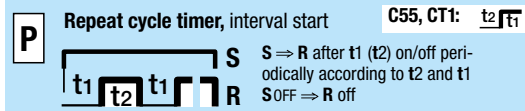
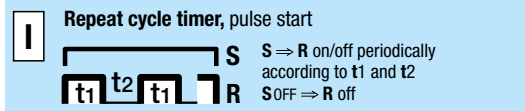
Blinker functions



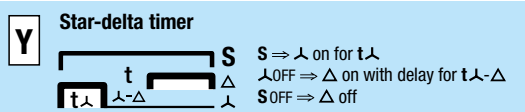
Delayed pulse



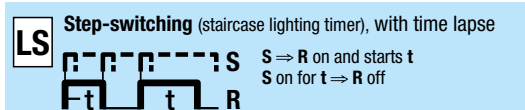
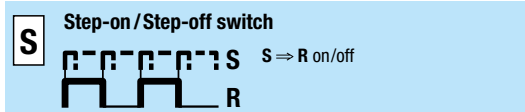
Repeat cycle timer



Special functions



Special functions



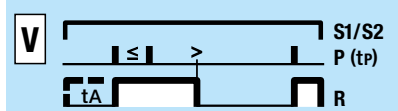
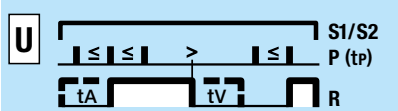
Stop / Reset



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. Poti	t max.				Page						
	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				229	
CT...A 30		•																								30				229
CT...K 30				•				•																		30				229
CT...B 30										•																30				229

Modular plug-in Time Relays (CT-System)



Type	Function																t-Stop	t-Reset	Ext. Poti	t max.				Page					
	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*				233
CT33...	•	•	△	•	•	△	•	•		•	•		▲	▲													60*		234
CT36...														•	•											60*			235

Plug-in Time Relays



Type	Function																t-Stop	t-Reset	Ext. Poti	t max.				Page					
	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	210
C55.3	•	•	•	•	•	•	•	•					•	•	•	•					•	•	•					60	211
C55.4	•	•	•	•	•	•	•	•					•	•	•	•					•	•	•					60	212
C56	•	•	•	•	•	•	•	•					•	•	•	•					•	•	•					60	213
C64		■			■																					20			214
CS2				•	•			•			•													•				60*	217
CS3	•	•		•	•			•			•																	60*	218
RS 41-M	•	•		•				•			•																	15	219

Plug-in Time Relays



Type	Function																t-Stop	t-Reset	Ext. Poti	t max.				Page						
	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*	215	
C85			•			•								•	•	•	•												60*	216

DIN Time Relays



Type	Function																t-Stop	t-Reset	Ext. Poti	t max.				Page						
	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	170	
AE2 - AE2M	•																											1,5/12	171	
AL1								•																					195	
AL3								•									•	•										60	196	
AL4								•									•	•										60	197	
AL5								•									•												198	
AM1	•			•						•		•																60	199	
AM2	•	•		•			•																					60	200	
AM3 ¹⁾	•	•		•			•																				60	201		
CM2	•	•		•			•																•	•	•				12	202
CM3	•	•		•	•		•			•	•																	60*	203	
CMD11 A	•																												168	
CMD11 E	•																												169	
CIM1	•	•		•	•		•			•	•						•	•										60*	176	
CIM12	•	•		•	•		•			•	•						•	•										60*	178	
CIM13	•	•		•	•		•			•	•						•	•										60*	180	
CIM14	•	•		•	•		•			•	•						•	•										60*	182	
CIM2	•	•					•	•				•	•															60*	183	
CIM22	•	•					•	•				•	•															60*	185	
CIM23	•	•					•	•				•	•															60*	187	
CIM3		•		•		•						•	•		•	•												60*	189	
CIM32		•		•		•						•	•		•	•												60*	191	
CIM33		•		•		•						•	•		•	•												60*	193	
CRV4	•	•	△	•	•	△	•	•	•	•	•	•	•	•	•		•	•					•				60*	205		
CSV4	•	•	△	•	•	△	•	•	•	•	•	•	•	•	•		•	•					•				10*	206		
CPF11	•						•	•																	0,6			204		
CY1	•																											208		

*** TF-60 Setting of long times**

The TF60 time setting method 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