

# CMD11-A

## Off delay | single voltage | 1 CO

### Time data

Timing functions	A
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
Timing scale	0.6 s / 6 s / 60 s / 6 min / 60 min

### Main circuit

Number of contacts	⚡ 1 CO
Contact material	AgNi
Rated voltage	250 V AC
Rated current	8 A
Minimum load	10 mA, 12 V
Inrush current	15 A, 20 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	12 V UC	24 V UC
Operating voltage range	0.8 ... 1.2 U <sub>N</sub>	0.8 ... 1.2 U <sub>N</sub>
Power consumption AC / DC	0.6 VA / 0.4 W	0.5 VA / 0.3 W
Current consumption on supply A1-A2 AC / DC	50 mA / 32 mA	21 mA / 12 mA
Current consumption on input control B1 AC / DC	4.3 mA / 2.7 mA	9.5 mA / 11.6 mA
Threshold voltage on input control B1 AC / DC	5.2 V / 8.8 V	9.5 V / 14 V
Rated frequency	0; 48 ... 62 Hz	0; 48 ... 62 Hz

### Control circuit

Nominal voltage	115 V AC	230 V AC
Operating voltage range	0.8 ... 1.2 U <sub>N</sub>	0.8 ... 1.2 U <sub>N</sub>
Power consumption AC/DC	5.3 VA / -	14.3 VA / -
Current consumption on supply A1-A2 AC/DC	47 mA / -	60 mA / -
Current consumption on input control B1 AC/DC	1.7 mA / -	1.9 mA / -
Threshold voltage on input control B1 AC/DC	42 V / -	80 V / -
Rated frequency	48 ... 62 Hz	48 ... 62 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
Overtoltage category	III

### General data

Ambient temperature storage (no ice)	-40 ... 85 °C
Ambient temperature operation	-40 ... 60 °C
Conductor cross section	2.5 mm <sup>2</sup> , 2 x 1.5 mm <sup>2</sup>
Nominal screw torque	0.5 Nm
Dimensions	fig. 4
Weight	48 g
Protection degree	IP 20
Housing material	PA66

### Product reference

Description	Type	12	24	115	230
UC supply	CMD11-A/UC...V	✓	✓		
AC supply	CMD11-A/AC...V			✓	✓

Other voltages on request. Please contact [support@comatreleco.com](mailto:support@comatreleco.com).  
«...» list control circuit voltage to complete product references.

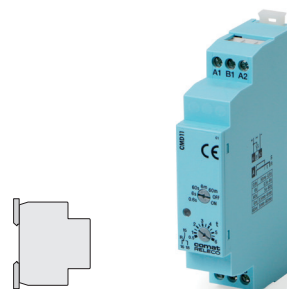


fig. 1. Wiring diagram



fig. 2. DC load limit curve

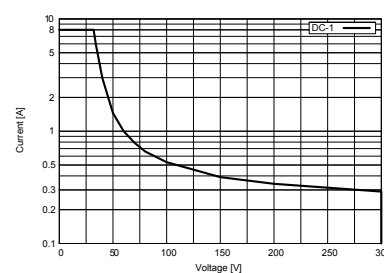


fig. 3. AC voltage endurance

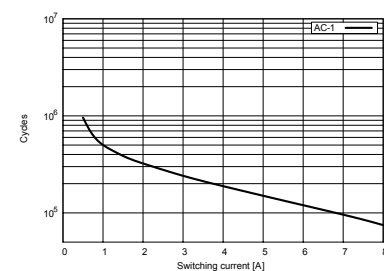
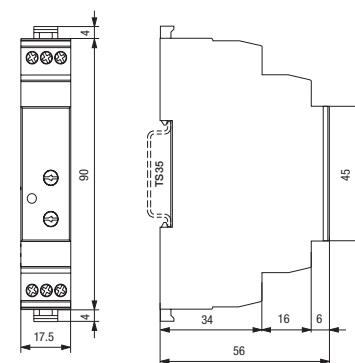


fig. 4. Dimensions (mm)

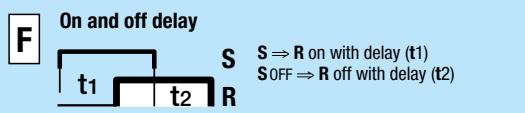
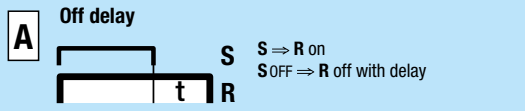
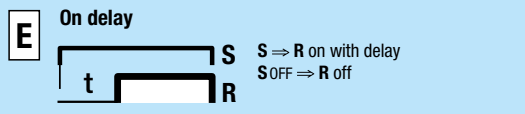


### Standards and approvals

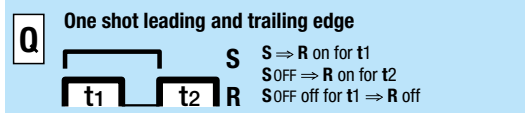
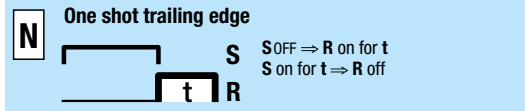
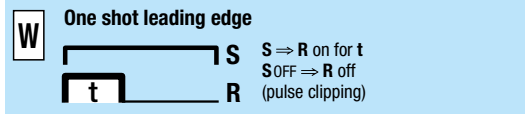
Standards IEC/EN 60947

Approvals

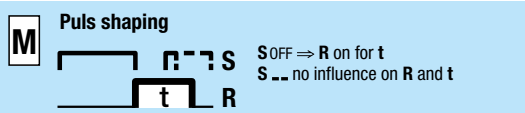
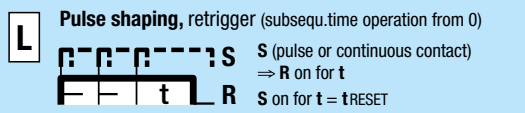
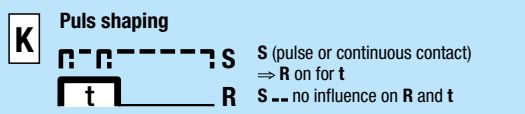
## Delay functions



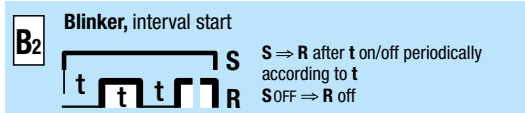
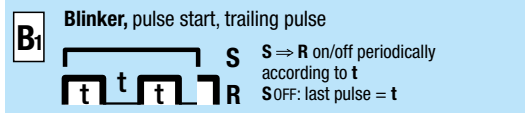
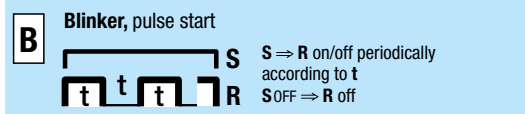
## Shot timing modes



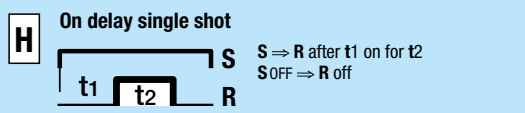
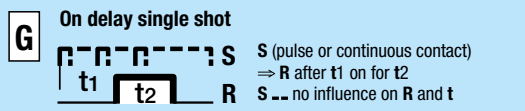
## Puls shaping



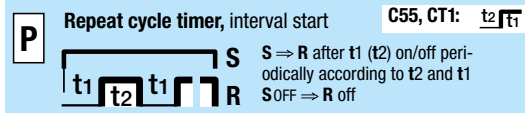
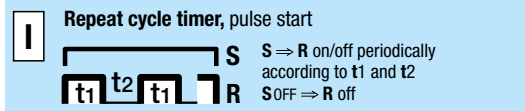
## Blinker functions



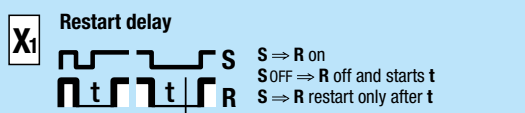
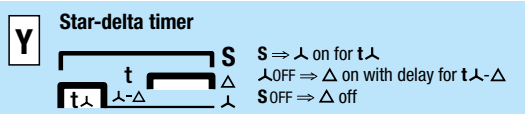
## Delayed pulse



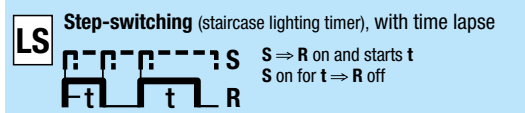
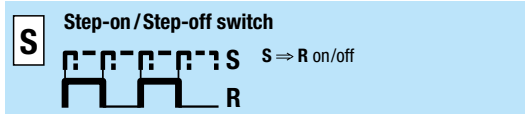
## Repeat cycle timer



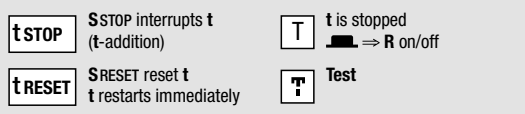
## Special functions



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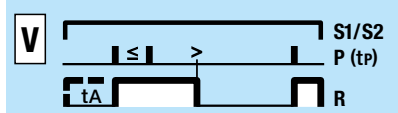
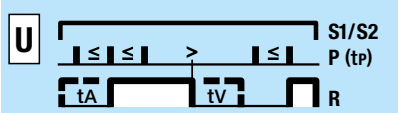
## Stop / Reset



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<sub>A</sub>  
Start with S2 = start-up short-out t<sub>A</sub>

t<sub>v</sub> = settable alarm delay  
delay (t<sub>A</sub> = t<sub>v</sub>)

