

2.1 ON and OFF delay Relays

AA2, AA2M

Off delay | 24 V UC | 220 ... 240 V AC | 1 CO



Time data

Timing functions	A
Timing range	AA2: 0.8 s ... 1.5 min / AA2M: 0.1 min ... 12 min
Timing scale	AA2: 12 s / 1.5 min / AA2M: 1.5 min / 12 min

Main circuit

Number of contacts	1 CO
Contact material	AgNi
Rated voltage	250 V AC
Rated current	10 A
Minimum load	10 mA, 12 V
Inrush current	16 A, 10 ms
Rated load DC	fig. 2
Rated load AC-1	2500 VA
Mechanical endurance (cycles)	20 000 000
Electrical endurance at rated load AC-1 (cycles)	fig. 3

Control circuit

Nominal voltage	24 V UC	220 ... 240 V AC
Operating voltage range	0.8 ... 1.3 U _N	0.8 ... 1.1 U _N
Power consumption AC / DC	0.84 VA / 0.84 W	2.4 VA / -
Current consumption on supply A1-A2 AC / DC	35 mA / 35 mA	10 mA / -
Current consumption on input control B1 AC / DC	25 mA / 25 mA	5 mA / -
Threshold voltage on input control B1 AC / DC	10 V / 10 V	176 V / -
Rated frequency	0; 48 ... 63 Hz	48 ... 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
Conductor cross section	2.5 mm ² , 2 x 1.5 mm ²
Nominal screw torque	0.4 Nm
Dimensions	fig. 4
Weight	65 g
Protection degree	IP 20
Housing material	PC

Product reference

Description	Type	24	220-240
UC supply	AA2/UC...V	✓	
AC supply	AA2/AC...V		✓
UC supply	AA2M/UC...V	✓	
AC supply	AA2M/AC...V		✓

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

«...» list control circuit voltage to complete product references.

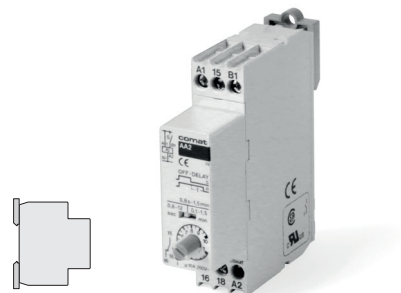


fig. 1. Wiring diagram

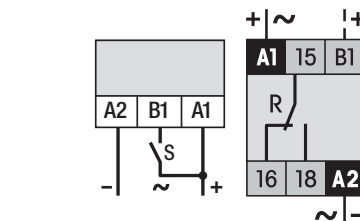


fig. 2. DC load limit curve

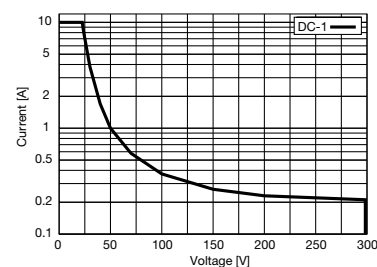


fig. 3. AC voltage endurance

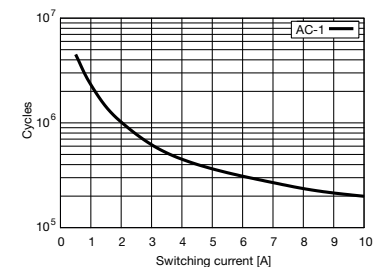
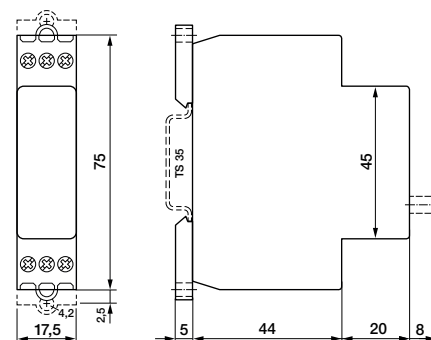


fig. 4. Dimensions (mm)

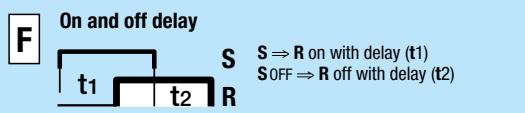
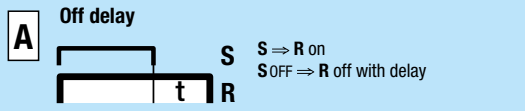
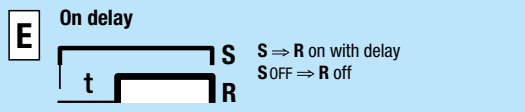


Standards and approvals

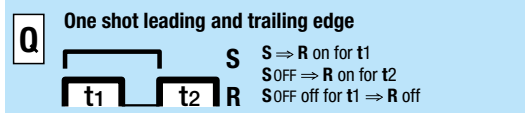
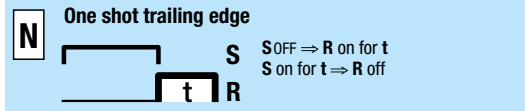
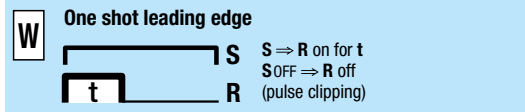
Standards IEC/EN 60947

Approvals

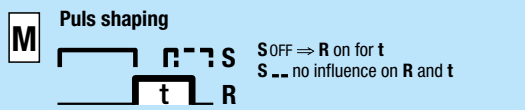
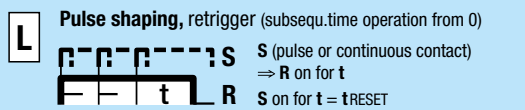
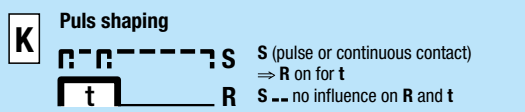
Delay functions



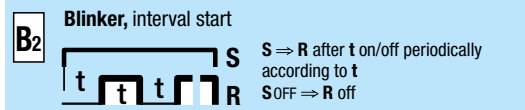
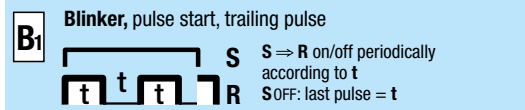
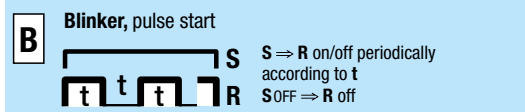
Shot timing modes



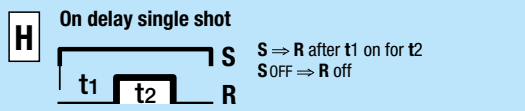
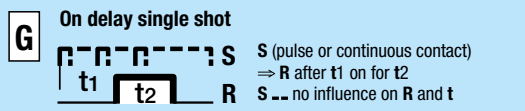
Puls shaping



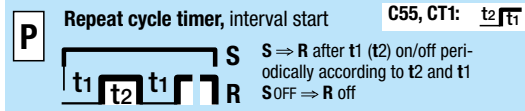
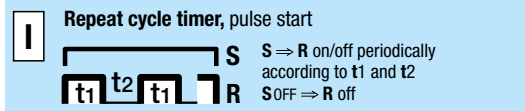
Blinker functions



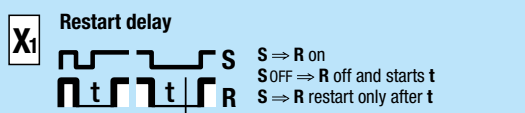
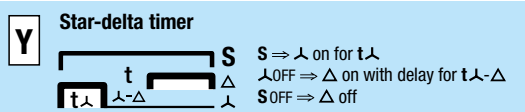
Delayed pulse



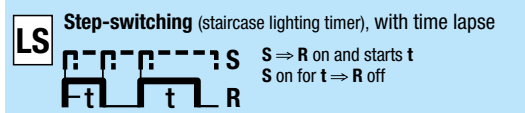
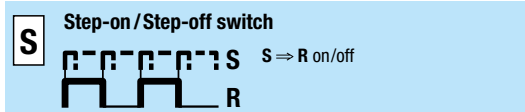
Repeat cycle timer



Special functions



Special functions



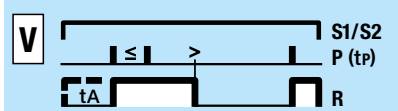
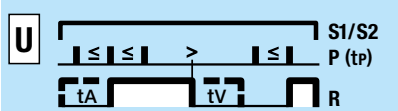
Stop / Reset



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 tA
Start with S2 = start-up short-out tA

tV = settable alarm delay
delay (tA = tV)

