

CTF-224R/UC24V

2 CO | Forcibly guided time relay | without microprocessor



Time data	
Timing functions	LS
Timing range	40 ms ... 200 ms / 0.16 s ... 0.8 s / 0.4 s ... 2 s / 1.6 s ... 8 s / 4 s ... 20 s / 16 s ... 80 s / 40 s ... 200 s / 1.6 min ... 8 min / 4 min ... 20 min / 16 min ... 80 min / 40 min ... 200 min / 1.6 h ... 8 h / 4 h ... 20 h / 16 h ... 80 h
Timing scale	0.2 s / 0.8 s / 2 s / 8 s / 20 s / 80 s / 200 s / 8 min / 20 min / 80 min / 200 min / 8 h / 20 h / 80 h

Main circuit	
Number of forcibly guided contacts	2 CO (Type B)
Available contact materials	AgNi + 0.2 μ Au
Rated voltage	250 V
Rated current	6 A
Minimum load	10 mA, 12 V
Inrush current	16 A, 10 ms
Rated load DC	fig. 3
Rated load AC-1	1,500 VA
Mechanical endurance (cycles)	20 000 000
Electrical endurance at rated load AC-1 (cycles)	fig. 2

Control circuit	
Nominal voltage	24 V AC/DC
Operating voltage range	0.7 U _N ... 1.25 U _N
Power consumption AC / DC	1.6 VA / 1.2 W
Current consumption on supply A1-A2 AC / DC	< 55 mA
Current consumption on input control B1 AC / DC	< 2 mA
Inrush current	< 250 mA
Threshold voltage logic 0	≤ 7 V AC / 8 V DC
Threshold voltage logic 1	≥ 12 V AC / 14 V DC
Recovery time	≥ 40 ms
Minimum control impulse time	≥ 20 ms
Contains microprocessor	No
Frequency range	0, 50 ... 60 Hz

Insulation	
Type of insulation	basic
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

Housing and environmental conditions	
Storage temperature (no ice)	-40 ... 85 °C
Operation temperature	-40 ... 70 °C
Relative humidity, no condensation	10 ... 95 %
Ingress Protection	IP 20
Weight	75 g
Color	Grey
Housing material	PA / PC
Operation Altitude	max. 2 000 m above sea level (without derating)
Mounting	DIN-Rail (IEC 60715)
Operation Position	any
Dimensions	fig. 4

Wiring	
Contact type control / main circuit	Screw terminal
Conductor cross section control / main circuit	4 mm ² / AWG12 (Wire), 2.5 mm ² / AWG14 (Stranded), 1.00 mm ² / AWG17 (Ferrule). Use copper conductors only.
Stripping Length control / main circuit	8 mm / 0.3 "
Nominal screw torque control / main circuit	0.5 Nm / 4.425 lbf in
Screwdrive control / main circuit	PZ2
Max. wire count control / main circuit	2
Dual sleeve control / main circuit	1

Product references		
Description	Type	24
2 CO	CTF-224R/UC...V	✓



fig. 1. Wiring diagram

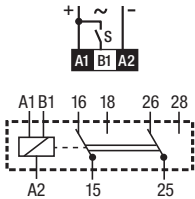


fig. 2. AC voltage endurance

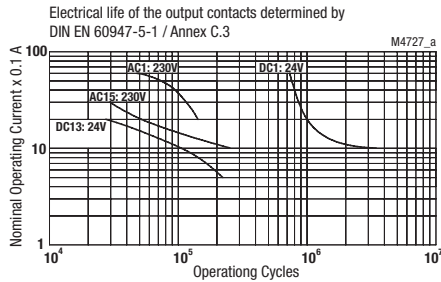


fig. 3. DC load limit curve

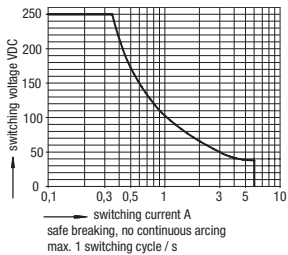
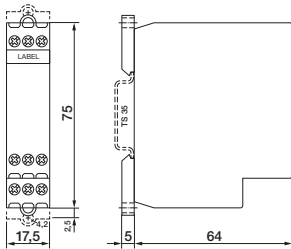


fig. 4. Dimensions (mm)



Technical approvals, conformities

Standards IEC/EN 61812-1, IEC/EN 61810-3

Railway EN 50155, EN 45545-2

Approvals  