CTF-224R/UC110-240V

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 / 0.4 min ... 2 min / 1.6 min ... 8 min / 4 min ... 20 min / 16 min ... 80 min / 0.4 h ... 2 h / 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 / 2 min / 8 min / 20 min / 80 min / 2 h / 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	110-240 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
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

General data

Storage temperature (no ice)	-40 ... 85 °C
Operation temperature	-40 ... 70 °C
Dimensions	fig. 4
Weight	75 g
Ingress Protection	IP 20
Housing material	PA / PC

Housing and environmental conditions

Relative huminity, no condensation	10 ... 95 %
Color	Grey
Operation Altitude	max. 2 000 m above sea level (without derating)
Mounting	DIN-Rail (IEC 60715)

Wiring

Contact type control / main circuit	Screw terminal
Conductor cross section control / main circuit	4 mm² / AWG12 (Wire), 2.5 mm² / AWG14 (Stranded), 1.00 mm² / 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	110-240
Monofunction (LS)	CTF-224R/UC…V	✓

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

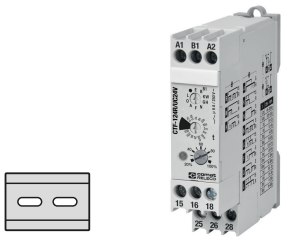


fig. 1. Wiring diagram

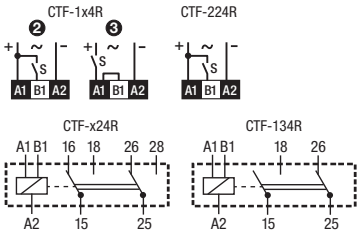


fig. 2. AC voltage endurance

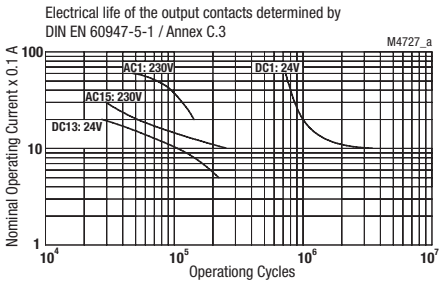


fig. 3. DC load limit curve

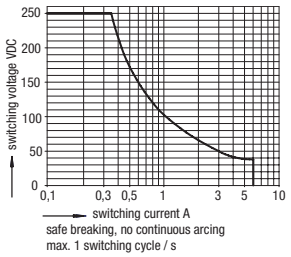
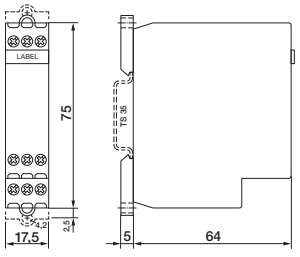


fig. 4. Dimensions (mm)



Technical approvals, conformities

Standards	IEC/EN 61812-1, IEC/EN 61810-3
Railway	EN 50155, EN 45545-2
Approvals	CE UKCA

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The CTF in a sidy-by-side installation complies with the fire integrity requirements of EN 45545-2:2020 if limited to 10 devices.

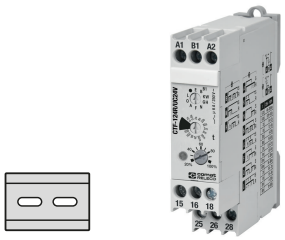


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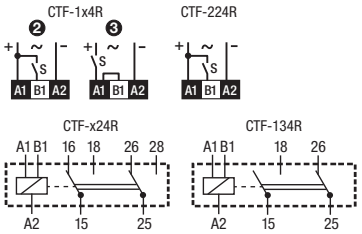


fig. 2. AC voltage endurance

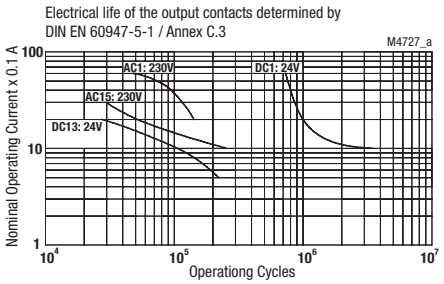


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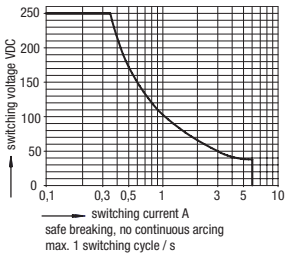
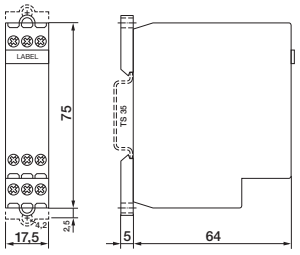


fig. 4. Dimensions (mm)



Technical approvals, conformities

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