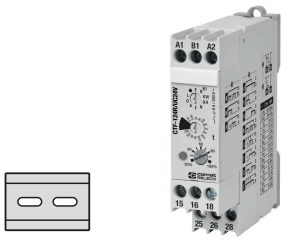
# CTF-234R/UC24V

## 1 NO + 1 NC | 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 | 1 NO + 1 NC (Type A) |
| 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 |
| 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

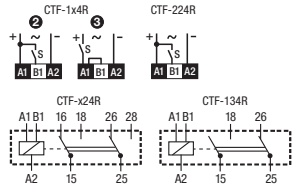
| | |
|---|---|
| Contact type control / main circuit | Screw terminal |
| Conductor cross section control / main circuit | 4 mm² / AWG12 (Wire), 2.5 mm² / AWG14 (Stranded), 1.00 mm² / AWG17 (Ferrule). Use copper conductors only. |
| Stripping Length control / main circuit | 8 mm / 0.3 " |
| Nominal 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

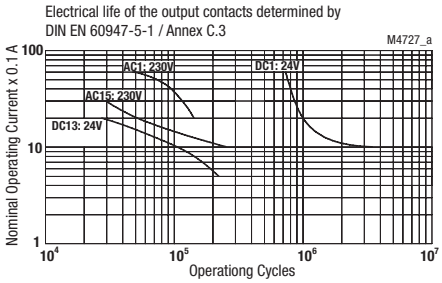
| Description | Type | 24 |
|---|---|---|
| Monofunction (LS) | CTF-234R/UC…V | ✓ |

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

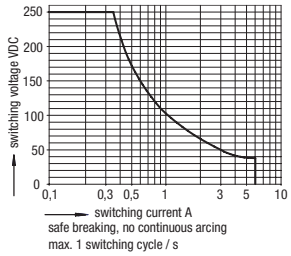
### fig. 1. Wiring diagram



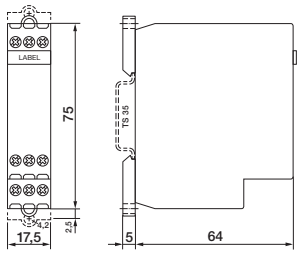

### fig. 2. AC voltage endurance




### fig. 3. DC load limit curve




### fig. 4. Dimensions (mm)



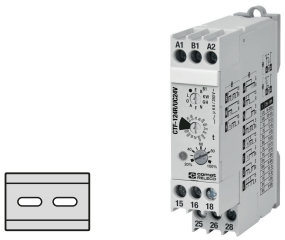

### Technical approvals, conformities

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

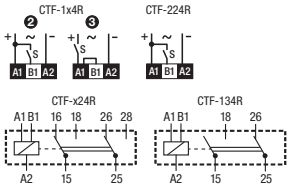
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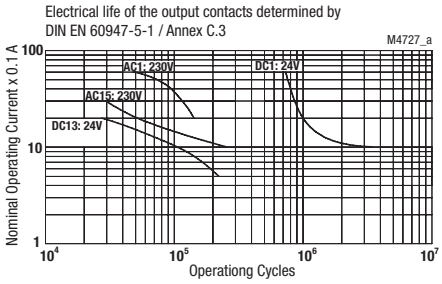
The CTF in a sidy-by-side installation complies with the fire integrity requirements of EN 45545-2:2020 if limited to 10 devices.



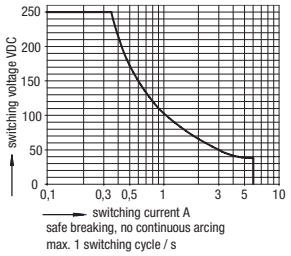
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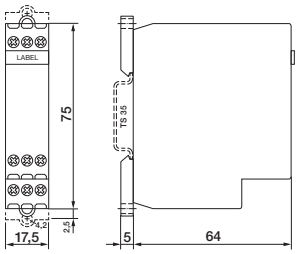

### fig. 2. AC voltage endurance




### fig. 3. DC load limit curve




### fig. 4. Dimensions (mm)




### Technical approvals, conformities

| | |
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| Approvals | |