# C3-R20N/AC230V

## 2 pole | changeover contact | remanence

### Main circuit

| | |
|---|---|
| Available contact materials | AgNi |
| Recommended minimum contact load | 10 mA / 10 V |
| Maximum contact load AC | 10 A / 250 V AC-1 |
| Maximum contact load DC | 10 A / 30 V DC-1 |
| Inrush current | 30 A, 20 ms |
| Rated load AC | 2 500 VA |
| Rated load DC | fig. 3. |
| Rated current | 10 A |
| Mechanical endurance (cycles) | ≥ 20 000 000 |
| Electrical endurance at rated load AC-1 (cycles) | ≥ 500 000 |

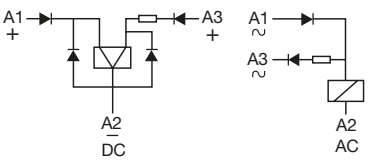
### Control circuit

| | |
|---|---|
| Nominal voltage | see table product references |
| Operating voltage range | 0.8 $U_N$ … 1.1 $U_N$ |
| Pick-up voltage | ≤ 0.8 $U_N$ |
| Release voltage | ≤ 0.8 $U_N$ |
| ON pulse power | AC 1.8 VA, DC 1.5 W |
| OFF pulse power | AC 0.3 VA, DC 0.5 W |

### Coil table

| V AC | mA ON | mA OFF | V DC | mA ON | mA OFF |
|---|---|---|---|---|---|
| 24 | 88 | 8 | 12 | 121 | 32 |
| 48 | 31 | 5 | 24 | 60 | 18 |
| 115 | 13 | 2 | 36 | 45 | 15 |
| 230 | 8 | 0.7 | 48 | 32 | 7 |
| | | | 60 | 25 | 9 |
| | | | 72 | 21 | 9 |
| | | | 110 | 12.4 | 3.2 |

### Internal diagram




### Insulation

| | |
|---|---|
| Test voltage open contact | 1 kV / 1 min |
| Test voltage contact / contact | 2.5 kV / 1 min |
| Test voltage contact / coil | 2.5 kV / 1 min |
| Overvoltage category | III |
| Insulation resistance at 500 V | ≥ 1 GΩ |
| Pollution degree | 3 |

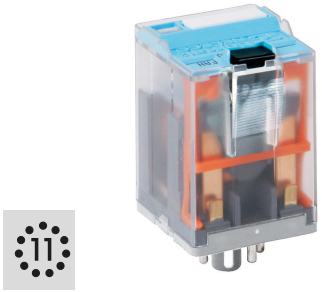
### General data

| | |
|---|---|
| Storage temperature (no ice) | -40 … 80 °C |
| Operation temperature | -40 … 60 °C |
| Minimum pulse length ON / OFF | 50 ms |
| Maximum switching frequency at rated load | 1 200 / h |
| Weight | 81 g |
| Housing material | PA / PC |

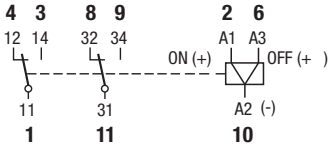
### Product references

| Description | Type | 230 |
|---|---|---|
| AC 50 Hz | C3-R2xN/AC...V | ✓ |

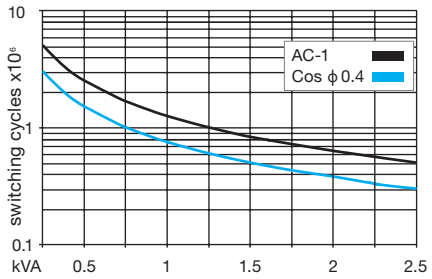
AC relays also available as 60 Hz. Other voltages on request. Please contact support@comatreleco.com.
«…» List coil voltage to complete product references
Test Dani



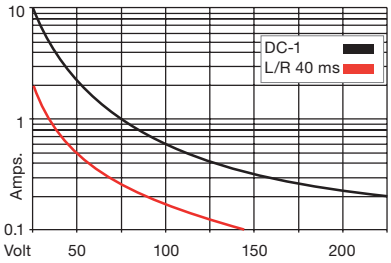
### fig. 1. Wiring diagram



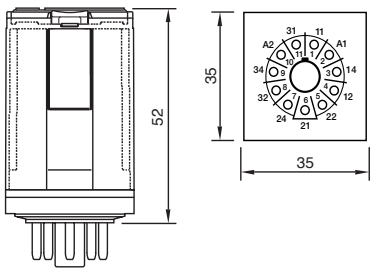

### fig. 2. AC voltage endurance




### fig. 3. DC load limit curve




### fig. 4. Dimensions (mm)




### Technical approvals, conformities

Standards IEC/EN 60947; IEC/EN 61810

Approvals