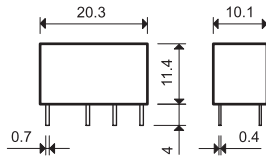


**Printed circuit mount**  
**2 A signal relay**

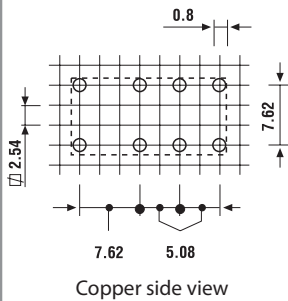
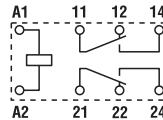
- 2 Pole changeover contacts Low level switching capability
- Subminiature - industry standard DIL package
- Sensitive DC coil - 200 mW
- Wash tight: RT III
- Cadmium Free contact material



**30.22**



- Low coil power
- Au clad contacts
- PCB mount

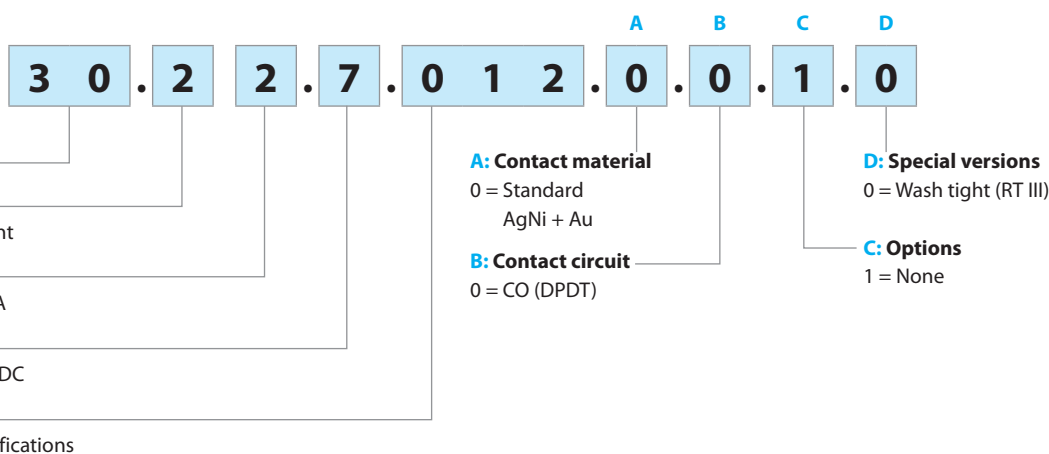


| <b>Contact specification</b>                     |                 |                          |
|--|-----------------|--------------------------|
| Contact configuration                            |                 | 2 CO (DPDT)              |
| Rated current/Maximum peak current               | A               | 2/3                      |
| Rated voltage/<br>Maximum switching voltage      | V AC            | 125/250                  |
| Rated load AC1                                   | VA              | 125                      |
| Rated load AC15 (230 V AC)                       | VA              | 25                       |
| Single phase motor rating (230 V AC)             | kW              | —                        |
| Breaking capacity DC1: 30/110/220 V              | A               | 2/0.3/—                  |
| Minimum switching load                           | mW (V/mA)       | 10 (0.1/1)               |
| Standard contact material                        |                 | AgNi + Au                |
| <b>Coil specification</b>                        |                 |                          |
| Nominal voltage (U <sub>N</sub> )                | V AC (50/60 Hz) | —                        |
|  | V DC            | 5 - 6 - 9 - 12 - 24 - 48 |
| Rated power AC/DC                                | VA (50 Hz)/W    | —/0.2                    |
| Operating range                                  | AC              | —                        |
|  | DC              | See table page 3         |
| Holding voltage                                  | AC/DC           | —/0.35 U <sub>N</sub>    |
| Must drop-out voltage                            | AC/DC           | —/0.05 U <sub>N</sub>    |
| <b>Technical data</b>                            |                 |                          |
| Mechanical life AC/DC                            | cycles          | —/10 · 10 <sup>6</sup>   |
| Electrical life at rated load AC1                | cycles          | 100 · 10 <sup>3</sup>    |
| Operate/release time                             | ms              | 6/2                      |
| Insulation between coil and contacts (1.2/50 μs) | kV              | 1.5                      |
| Dielectric strength between open contacts        | V AC            | 750                      |
| Ambient temperature range                        | °C              | −40...+85                |
| Environmental protection                         |                 | RT III                   |
| <b>Approvals</b> (according to type)             |                 |                          |

## Ordering information

Example: 30 series PCB relay, 2 CO (DPDT) - 2 A contacts, 12 V sensitive DC coil.

A



## Technical data

### Insulation according to EN 61810-1

|                                  |      |         |                        |
|----------------------------------|------|---------|------------------------|
| Nominal voltage of supply system | V AC | 230/400 | 120...240 single phase |
| Rated insulation voltage         | V AC | 250     | 125                    |
| Pollution degrees                |      | 1       | 2                      |

### Insulation between coil and contact set

|                       |                |       |       |
|-----------------------|----------------|-------|-------|
| Type of insulation    |                | Basic | Basic |
| Overvoltage category  |                | I     | II    |
| Rated impulse voltage | kV (1.2/50 µs) | 1.5   | 1.5   |
| Dielectric strength   | V AC           | 1000  | 1000  |

### Insulation between adjacent contacts

|                       |                |       |       |
|-----------------------|----------------|-------|-------|
| Type of insulation    |                | Basic | Basic |
| Overvoltage category  |                | I     | II    |
| Rated impulse voltage | kV (1.2/50 µs) | 1.5   | 1.5   |
| Dielectric strength   | V AC           | 1500  | 1500  |

### Insulation between open contacts

|                       |                     |                     |                     |
|-----------------------|---------------------|---------------------|---------------------|
| Type of disconnection |                     | Micro-disconnection | Micro-disconnection |
| Dielectric strength   | V AC/kV (1.2/50 µs) | 750/1               | 750/1               |

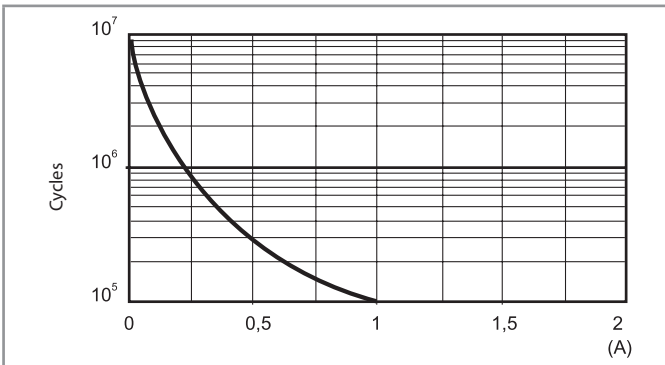
### Other data

|  |                           |       |
|--|---------------------------|-------|
| Bounce time: NO/NC                                 | ms                        | 1/3   |
| Vibration resistance (5...55)Hz: NO/NC             | g                         | 15/15 |
| Shock resistance                                   | g                         | 16    |
| Power lost to the environment                      | without contact current W | 0.2   |
|  | with rated current W      | 0.4   |
| Recommended distance between relays mounted on PCB | mm                        | ≥ 5   |

A

### Contact specification

**F 30 - Electrical life (AC1) v contact current (125 V)**



Note:  
The rated current of 2 A corresponds to the limiting continuous current.

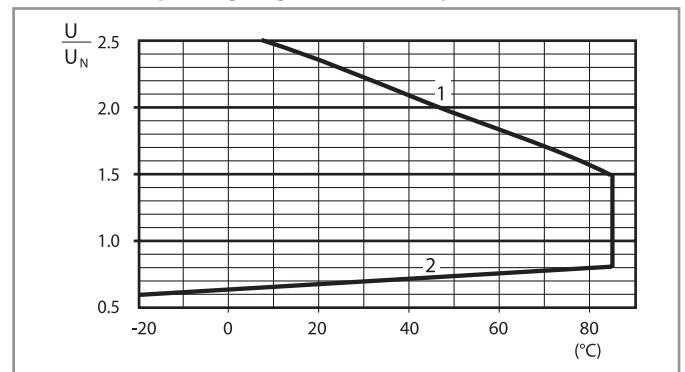
### Coil specifications

**DC coil data - 0.2 W sensitive**

| Nominal voltage<br>$U_N$ | Coil code | Operating range |           | Resistance | Rated coil consumption<br>$I$ at $U_N$ |
|--------------------------|-----------|-----------------|-----------|------------|--|
|                          |           | $U_{min}$       | $U_{max}$ | $R$        |  |
| V                        |           | V               | V         | $\Omega$   | mA                                     |
| 5                        | 7.005     | 3.7             | 7.5       | 125        | 40                                     |
| 6                        | 7.006     | 4.5             | 9         | 180        | 33                                     |
| 9                        | 7.009     | 6.7             | 13.5      | 405        | 22                                     |
| 12                       | 7.012     | 8.4             | 18        | 720        | 16                                     |
| 24                       | 7.024     | 16.8            | 36        | 2880       | 8.3                                    |
| 48*                      | 7.048     | 36              | 72        | 10000      | 4.8                                    |

\* Rated power: 0.23 W

**R 30 - DC coil operating range v ambient temperature**



1 - Max. permitted coil voltage.  
2 - Min. pick-up voltage with coil at ambient temperature.



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