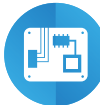


Subminiature DIL relays 2 A



Electronic
circuit boards



Hi-Fi systems



Printers



Toys



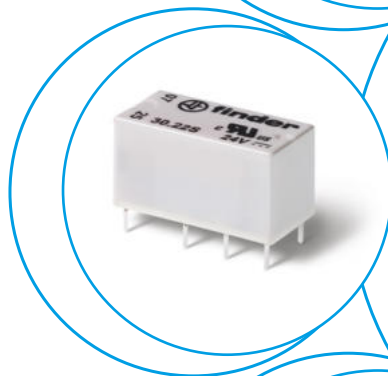
Medical and
dentistry



Hoists and
cranes



Door and
gate openers



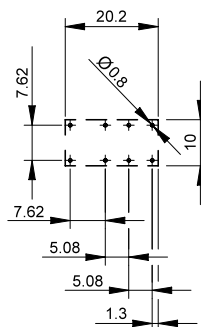
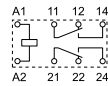
**Printed circuit mount
2 A signal relay**

- 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



Copper side view

For outline drawing see page 5

Contact specification

| | | |
|---|-----------|-------------|
| Contact configuration | | 2 CO (DPDT) |
| Rated current/Maximum peak current | A | 2/3 |
| Rated voltage/ 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: 24/110/220 V | A | 2/0.3/— |
| Minimum switching load | mW (V/mA) | 10 (0.1/10) |
| Standard contact material | | AgNi + Au |

Coil specification

| | | |
|---------------------------|-----------------|--------------------------|
| Nominal voltage (U_N) | 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 5 |
| Holding voltage | AC/DC | —/0.35 U_N |
| Must drop-out voltage | AC/DC | —/0.05 U_N |

Technical data

| | | |
|---|--------|------------------------|
| Mechanical life AC/DC | cycles | —/10 · 10 ⁶ |
| Electrical life at rated load AC1 | cycles | 100 · 10 ³ |
| Operate/release time | ms | 6/4 |
| Insulation between coil and contacts (1.2/50 μ s) | kV | 1.5 |
| Dielectric strength between open contacts | V AC | 750 |
| Ambient temperature range | °C | −40...+85 |
| Environmental protection | | RT III |

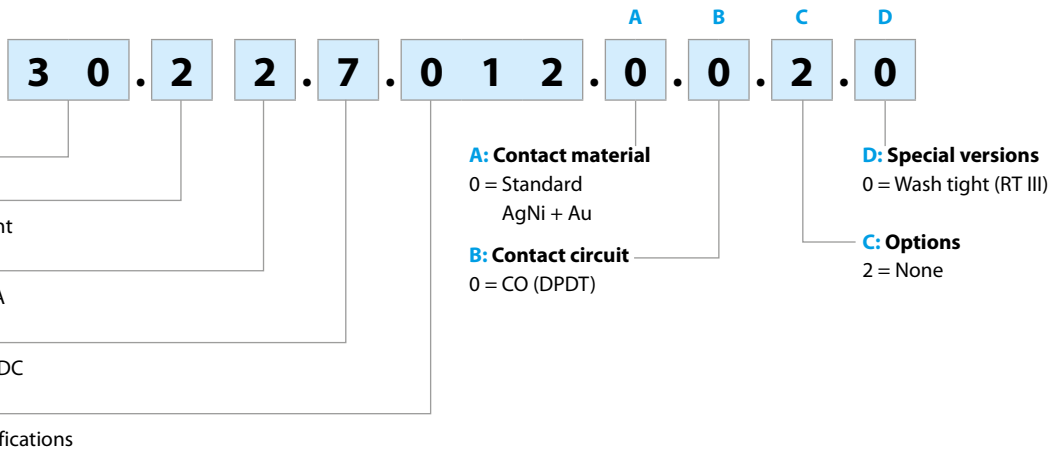
Approvals (according to type)



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 | 125/250 |
| Rated insulation voltage | V AC | 250 |
| Pollution degrees | | 1 |

Insulation between coil and contact set

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

Insulation between adjacent contacts

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

Insulation between open contacts

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

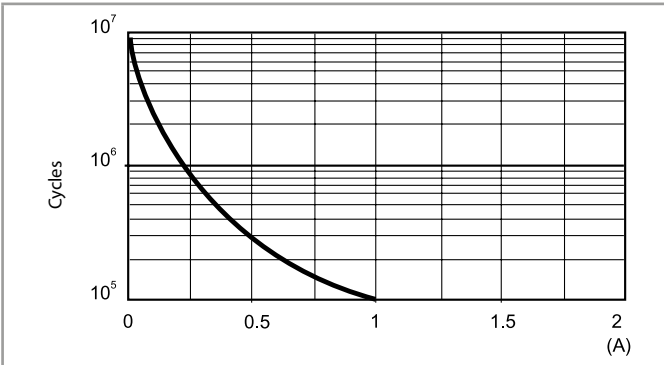
Other data

| | | |
|--|---------------------------|-----|
| Bounce time: NO/NC | ms | 2/6 |
| Vibration resistance (10...38)Hz | g | 10 |
| Shock resistance | g | 10 |
| 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)



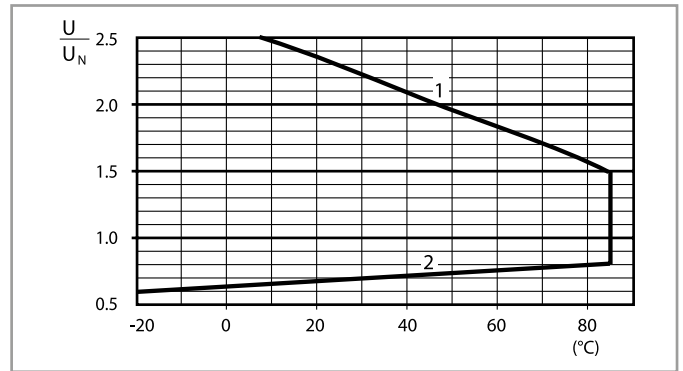
Note:
The rated current of 2 A corresponds to the limiting continuous current.

Coil specifications

DC coil data - 0.2 W sensitive

| Nominal voltage U_N | Coil code | Operating range | | Resistance R | Rated coil consumption I at U_N |
|--------------------------|-----------|-----------------|-----------|-------------------|--|
| | | U_{min} | U_{max} | | |
| V | | V | V | Ω | 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 | 33.6 | 72 | 11520 | 4.8 |

R 30 - DC coil operating range v ambient temperature



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

Outline drawing

Type 30.22

