



- Miniature size
- General purpose relay
- Sensitive coils available
- IP 40 & IP 67
- PCB
- Wide range of accessories

Contacts

| | | |
|------------------------------|-------|---|
| Contact number & arrangement | | 2C/O, 2NO, 2NC |
| Contact material | | AgCdO , AgCdO/Au 3 µm, AgCu/Au 0,2 µm |
| Max. switching voltage | AC/DC | 400 V / 250 V |
| Min. switching voltage | | 10 V AgCdO, 5 V AgCdO/Au 3 µm, 10 V AgCu/Au 0,2 µm |
| Rated load | AC1 | 8 A / 250 V AC |
| | DC1 | 8 A / 24 V DC |
| Min. switching current | | 5 mA AgCdO, 2 mA AgCdO/Au 3 µm, 5 mA AgCu/Au 0,2 µm |
| Rated current | | 8 A |
| Max. breaking capacity | AC1 | 2 000 VA |
| Min. breaking capacity | | 0,5 W AgCdO, 0,05 W AgCdO/Au 3 µm, 0,5 W AgCu/Au 0,2 µm |
| Resistance | | ≤ 100 mΩ |
| Max. operating frequency | | |
| • at rated load | AC1 | 600 cycles/hour |
| • no load | | 72 000 cycles/hour |

Coil

| | | | |
|-----------------------------------|----|----------------------------|-----------------------------|
| Rated voltage | DC | 6...110 V standard version | 5...110 V sensitive version |
| Must release voltage | | ≥ 0,1 U _n | |
| Operating range of supply voltage | | see Table 1, 2 | |
| Rated power consumption | DC | 0,8 W standard version | 0,5 W sensitive version |

Insulation

| | | |
|--------------------------|--|------------|
| Insulation category | | C250 |
| Insulation rated voltage | | 400 V AC |
| Dielectric strength: | | |
| • coil-contact | | 4 000 V AC |
| • contact-contact | | 1 000 V AC |
| • pole-pole | | 2 500 V AC |
| Contact-coil distance | | |
| • clearance | | ≥ 8 mm |
| • creepage | | ≥ 8 mm |

General data

| | | |
|--------------------------------|--|---------------------------------------|
| Operating time (typical value) | | 7 ms |
| Release time (typical value) | | 2 ms |
| Electrical life | | |
| • resistive | | > 2 x 10 ⁵ 8 A, 250 V AC |
| • cos φ | | see Fig. 2 |
| Mechanical life (cycles) | | > 3 x 10 ⁷ |
| Dimensions (L x W x H) | | 28 x 12,5 x 26 mm for IP 67 h=26,5 mm |
| Weight | | 20 g |
| Ambient temperature | | |
| • operating | | -40...+85 °C |
| • storing | | -40...+70 °C |
| Cover protection category | | IP 40 or IP 67 |
| Shock resistance | | 20 g |
| Vibration resistance | | 10 g / 5 g 10...150 Hz (2NO/2NC) |
| Solder bath temperature | | max. 270 °C |
| Soldering time | | max. 5 s |



Coil data - standard version

Table 1

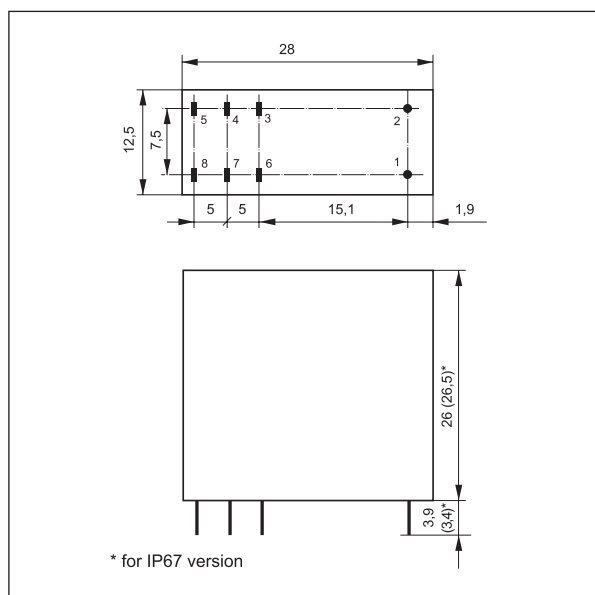
| Coil code | Rated voltage V DC | Coil resistance (±10%) at 20 °C Ω | Coil operating range at 20 °C V DC | |
|-----------|-----------------------|---|---------------------------------------|-------|
| | | | min. | max. |
| 1006 | 6 | 47 | 3,9 | 8,5 |
| 1012 | 12 | 170 | 7,9 | 16,2 |
| 1024 | 24 | 740 | 16,8 | 33,6 |
| 1036 | 36 | 1 350 | 22,0 | 45,5 |
| 1048 | 48 | 3 200 | 34,0 | 70,0 |
| 1060 | 60 | 5 000 | 42,0 | 87,0 |
| 1096 | 96 | 10 000 | 61,0 | 125,0 |
| 1110 | 110 | 13 000 | 77,0 | 140,0 |

Coil data - sensitive version

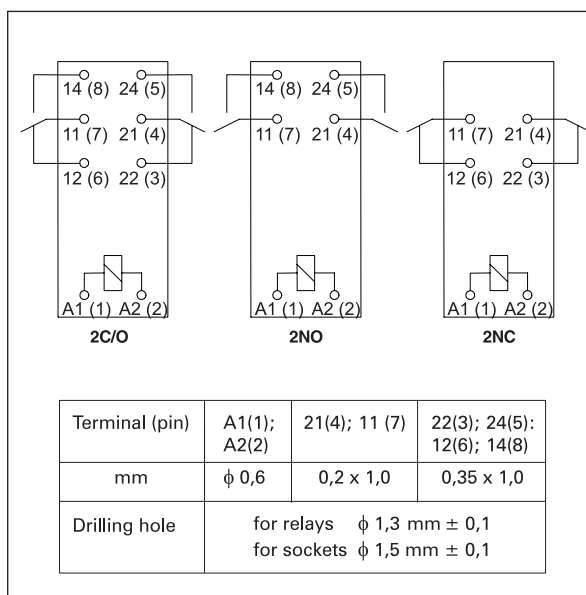
Table 2

| Coil code | Rated voltage V DC | Coil resistance (±10%) at 20 °C Ω | Coil operating range at 20 °C V DC | |
|-----------|-----------------------|---|---------------------------------------|-------|
| | | | min. | max. |
| S005 | 5 | 47 | 3,5 | 8,5 |
| S006 | 6 | 70 | 4,4 | 10,3 |
| S012 | 12 | 270 | 8,8 | 20,3 |
| S024 | 24 | 1 100 | 17,5 | 41,0 |
| S036 | 36 | 2 000 | 24,0 | 55,0 |
| S048 | 48 | 4 400 | 35,0 | 82,0 |
| S060 | 60 | 6 500 | 44,0 | 100,0 |
| S110 | 110 | 20 000 | 88,0 | 188,0 |

Dimensions

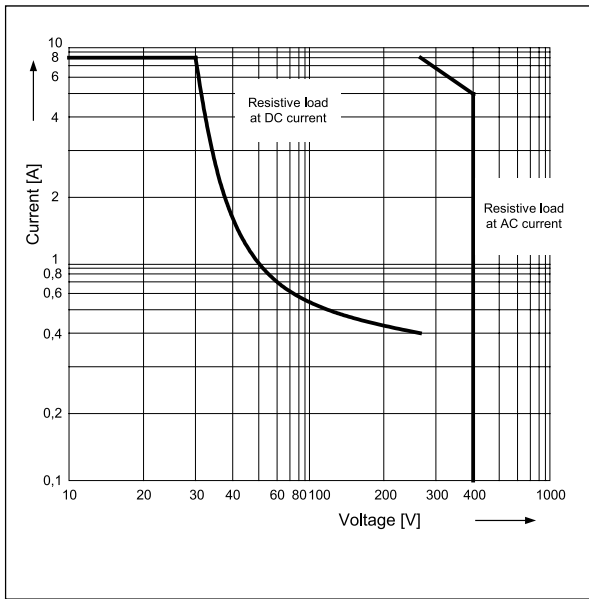


Connections diagram (pin side view)



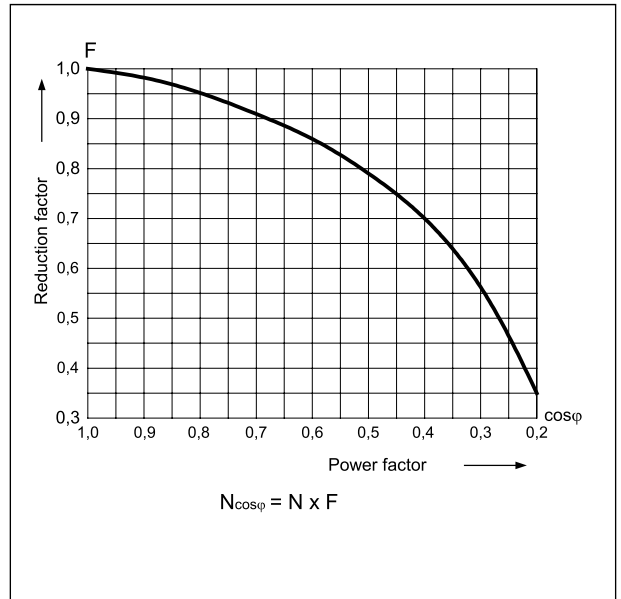
Max. AC and DC resistive load breaking capacity

Fig. 1



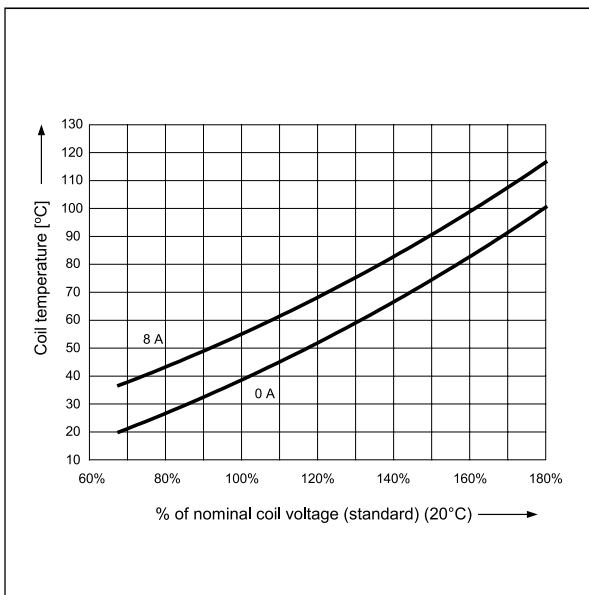
Electrical life reduction factor at AC inductive load

Fig. 2



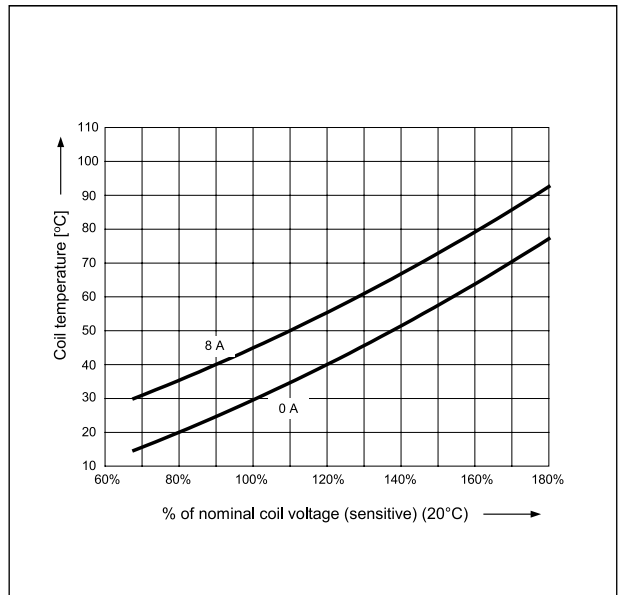
Coil temperature rise - standard version

Fig. 3



Coil temperature rise - sensitive version

Fig. 4



Mounting

See Tables, pages 132, 133.

Ordering codes

