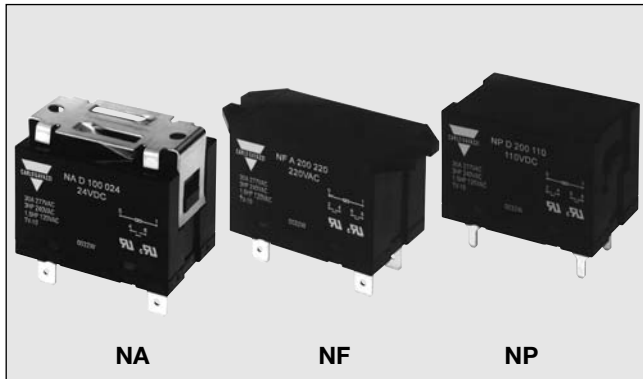


Power Relays Type NA/NF/NP/NB Monostable



- Power relay
- Switching capacity 30 A
- DC coils 3 to 200 VDC
- AC coils 6 to 220 VAC
- 1 or 2 normally open contact
- Reinforced insulation 4 KV / 8 mm
- Heavy load up to 7500 V
- PCB or Fast-on terminal
- General purpose, industrial power application
- UL, cUL and TÜV approved

Product Description

Relay high power output. It is sealed designed for vending machines, copiers and control equipment. Power and compressors load.

Approvals



The approvals stated are not generally applicable to all relay versions of a particular type.

Type Selection

| Contact configuration | |
|--------------------------|-------------------|
| 1 normally open contact | (SPST {1-form A}) |
| 2 normally open contacts | (DPST {2-form A}) |

Ordering Key

N B D 100 12 SEL

Type _____
Terminal version _____
A = Faston no flange
P = PCB
F = Flange and faston terminals
B = Bolt terminals
Coil version (A=AC - D=DC) _____
Contact code _____
Coil rated voltage _____
Mounting options _____
Nil = No options - D = Din rail mount - F = Topflange mont
S = Mounting spring - DT = D + Test button -
DE = D + Protective cover - DL = D + Led -
FE = F + protective cover - FL = F + Led -
SE = S + protective cover - SEL = SE + Led

Coil Characteristics, DC (20°C)

| Rated voltage VDC | Pick-up voltage VDC | Drop-out voltage VDC | Coil resistance $\Omega \pm 10\%$ |
|-------------------|---------------------|----------------------|-----------------------------------|
| 3 | 2.25 | 0.3 | 4.7 |
| 6 | 4.50 | 0.6 | 18.8 |
| 12 | 9.00 | 1.2 | 75.0 |
| 24 | 18.00 | 2.4 | 300.0 |
| 48 | 36.00 | 4.8 | 1200.0 |
| 100 | 75.00 | 10.0 | 5200.0 |
| 110 | 82.50 | 12.0 | 6300.0 |
| 200 | 150.00 | 20.0 | 21000.0 |

Coil Characteristics, AC (20°C)

| Rated voltage VAC | Pick-up voltage VAC | Drop-out voltage VAC | Coil resistance $\Omega \pm 10\%$ |
|-------------------|---------------------|----------------------|-----------------------------------|
| 6 | 4.8 | 0.9 | 18.8 |
| 12 | 9.6 | 1.8 | 75.0 |
| 24 | 19.2 | 3.6 | 300.0 |
| 48 | 38.4 | 7.2 | 1200.0 |
| 120 | 96.0 | 18.0 | 5200.0 |
| 220 | 176.0 | 33.0 | 20800.0 |

Contact Characteristics

| | 100 | 200 |
|------------------------------------|---|-------------------------|
| Rating | 30 A | 25 A |
| UL rating | 1.5 HP / 120 VAC 3 HP / 240 VAC 30 A / 277 VAC TV 10 | |
| Contact rating with resistive load | 30A/250VAC 30A/28VDC | 25A/250VAC 25A/28VDC |
| Material | Silver alloy | |

| | | |
|----------------------------|--------------------------------|-------------|
| Initial contact resistance | 100 m Ω max. (1A-24VDC) | |
| Current | | |
| Max. switching current | 30 A | 25 A |
| Max. switching power | 7500VA/840W | 6250VA/700W |
| Voltage | | |
| Max. switching voltage | 277 VAC / 28 VDC max. | |
| Life | | |
| Electrical life | 1 x 10 ⁵ ops | |
| Mechanical life | 1 x 10 ⁶ ops | |

Insulation

| | |
|-----------------------|----------|
| Test voltage (1 min.) | |
| Open contacts | 2000 VAC |
| Contacts/coil | 4000 VAC |

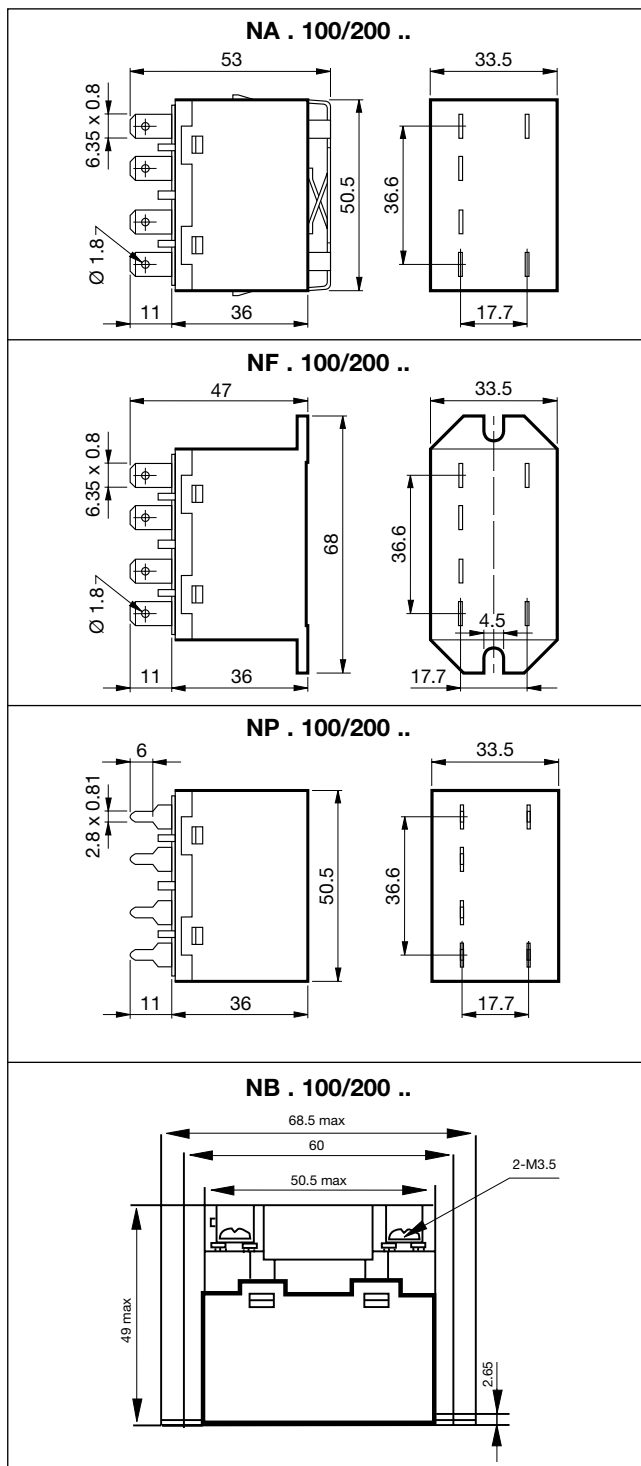
| | |
|--|-----------------|
| Surge voltage | |
| Contacts/coil | 10000 VAC |
| Initial insulation resistance at 500 VDC | 1000 M Ω |

General Data

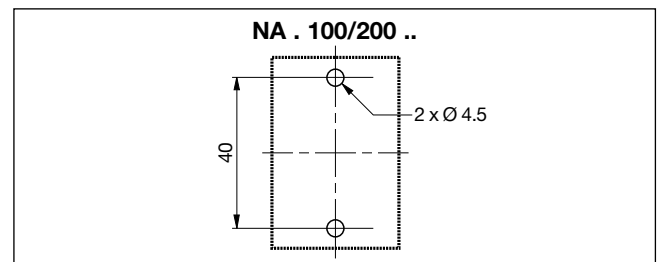
| | |
|------------------------------|---------------------------------------|
| Nominal coil power | AC version 2.7 VA DC version 1.9 W |
| Operate time at nom. voltage | 30 ms |
| Release time at nom. voltage | 30 ms |
| Ambient temperature | -55 °C to +70 °C |
| Temperature rise | 50 °C max. |
| Vibration resistance | 1.65 mm p.p. 10 to 55 Hz |

| | | |
|----------------------|-------------------------|-----------------------------------|
| Vibration resistance | 1.5 mm p.p. 10 to 55 Hz | |
| Shock resist. | Functional | 98 m/s ² (malfunction) |
| | Destructive | 980 m/s ² (mechanical) |
| Humidity | 98% +40 °C | |
| Weight | ~ 120 g | |
| Construction | Dust cover | |

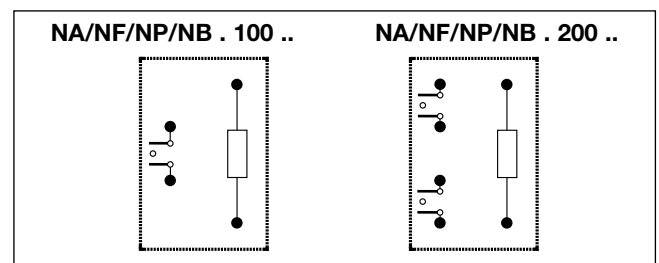
Dimensions



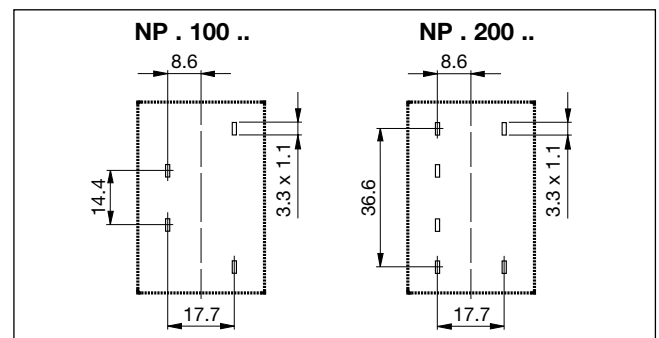
Mounting Holes



Wiring Diagram

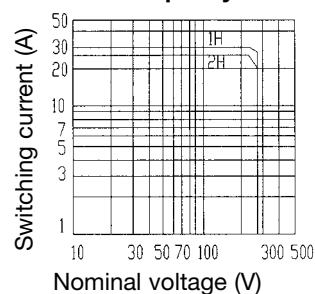


Pin View



Diagrams

1 Contact capacity



1 Life curve

