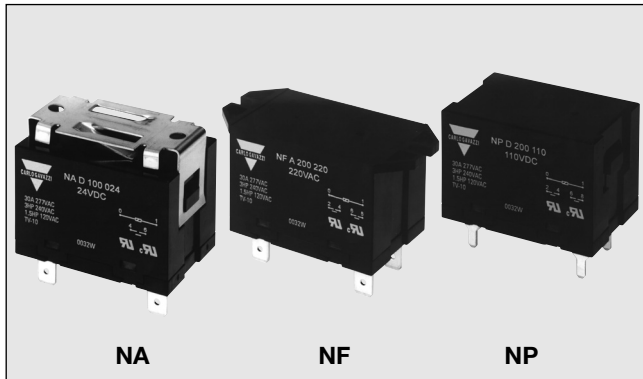


Power Relays Type NA/NF/NP/NB Monostable



- 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

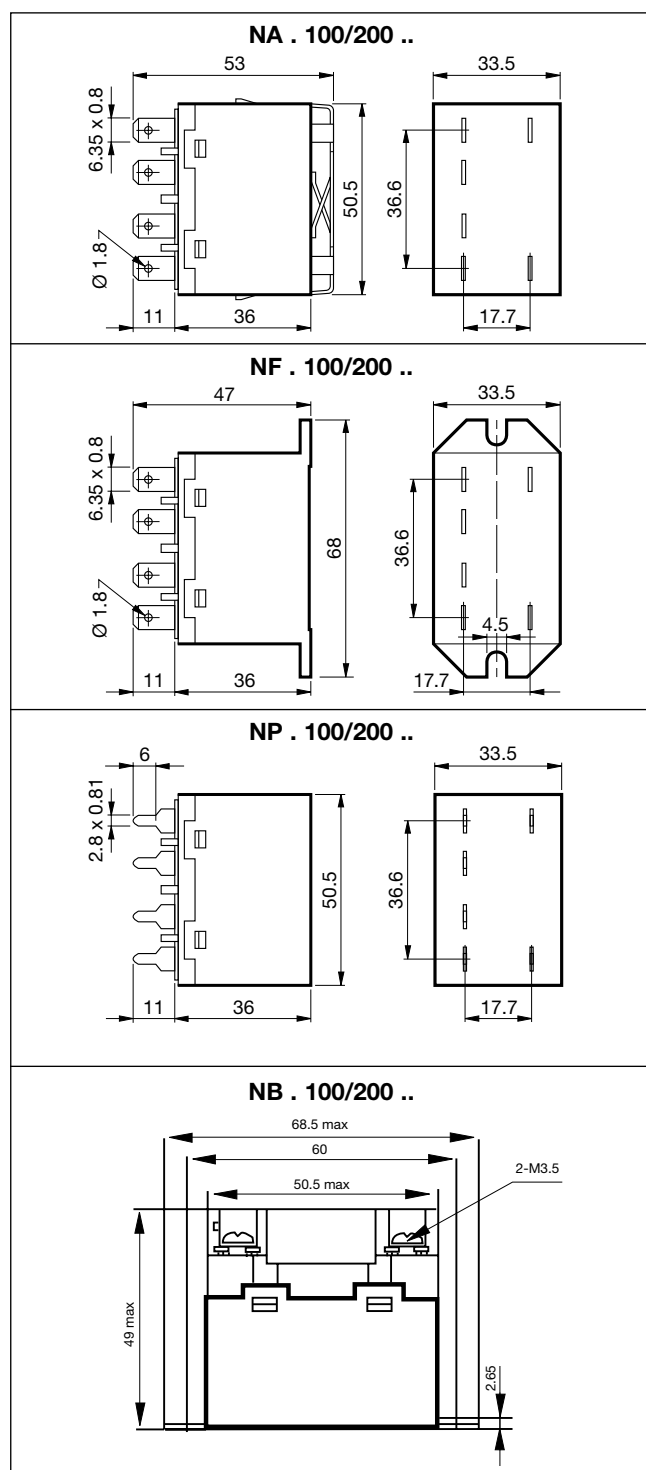
Surge voltage	
Contacts/coil	10000 VAC
Initial insulation resistance at 500 VDC	1000 M Ω

General Data

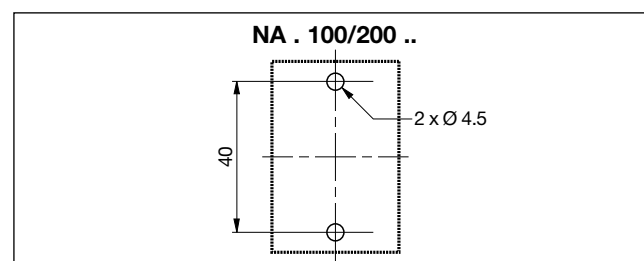
Nominal coil power	AC version 2.7 VA DC version 1.9 W
Operate time at nom. voltage	30 ms
Release time at nom. voltage	30 ms
Ambient temperature	-55 °C to +70 °C
Temperature rise	50 °C max.
Vibration resistance	1.65 mm p.p. 10 to 55 Hz

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	

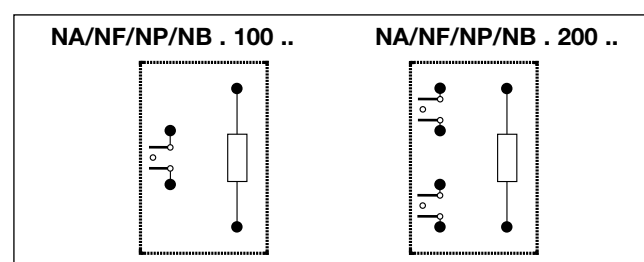
Dimensions



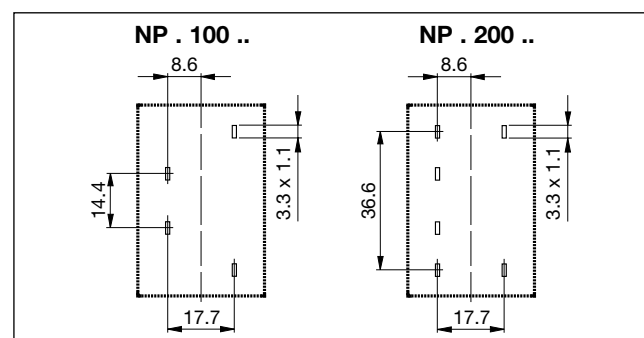
Mounting Holes



Wiring Diagram

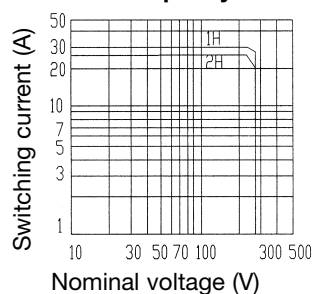


Pin View



Diagrams

1 Contact capacity



1 Life curve

