

● Features

- 2 to 4 pole configurations
- Various terminals available
- Gold plated contact available
- Transparent dust cover, various installation types
- Environmental friendly product (RoHS compliant)
- Automatic production
- High capacity
- Dimensions: without bracket: 28.0 x 21.5 x 35.0 mm
With bracketed cover 44.0 x 21.5 x 35.0 mm



● Application

- Railway Transit Equipment / Industrial Control Equipment / Machine Tool / Mechanical Equipment / Elevator Control / Home Appliance, etc.

● Contact Data

Contact Arrangement		2C, 3C	4C
Contact Material		Ag Alloy	
Contact Rating	Resistive Load	5A 250VAC / 30VDC	3A 250VAC / 30VDC
	Heavy Load	7A 250VAC / 30VDC	5A 250VAC / 30VDC
Max. Switching Power		1750VA / 210W	1250VA / 150W
Max. Switching Voltage		250VAC / 30VDC	
Max. Switching Current		7A	5A
Contact Resistance		$\leq 100\text{m}\Omega$ (1A, 6VDC)	
Electrical Endurance		1×10^5	
Mechanical Endurance		2×10^7	

● Coil Parameter (at 23°C)

Coil Voltage (VDC)		Coil Resistance ($\Omega \pm 10\%$)	Pickup Voltage(max) (VDC)	Release Voltage(min) (VDC)	Coil Power Consumption (W)
Rated	Max.				
5	5.5	27	4.0	0.5	0.9
6	6.6	39	4.8	0.6	
12	13.2	156	9.6	1.2	
24	26.4	650	19.2	2.4	
48	52.8	2500(1 \pm 15%)	38.4	4.8	
110	121.0	11000(1 \pm 15%)	88.0	11.0	

Coil Voltage (VAC)		Coil Resistance ($\Omega \pm 10\%$)	Pickup Voltage(max) (VAC)	Release Voltage(min) (VAC)	Coil Power Consumption (VA)
Rated	Max.				
6	6.6	11.5	4.8	1.8	1.2
12	13.2	46.0	9.6	3.6	
24	26.4	184	19.2	7.2	
110	121.0	3530(1 \pm 15%)	88.0	33.0	
120	132.0	4430(1 \pm 15%)	96.0	36.0	
220/240	242.0	14400(1 \pm 15%)	176.0	66.0	

● Operation Condition

Insulation Resistance		1000M Ω min (at 500VDC)
Dielectric Strength	Between Contacts	1000VAC 1min
	Between Coil and Contact	1500VAC 1min
	Between Contact Sets	1500VAC 1min
Shock Resistance	Functional	98m/s ²
	Endurance	980m/s ²
Vibration Resistance		10~55Hz double amplitude 1.0mm

High Current Power Relay I HB



RELAY / ISO9001 / IATF16949 CERTIFIED

● Operation Condition

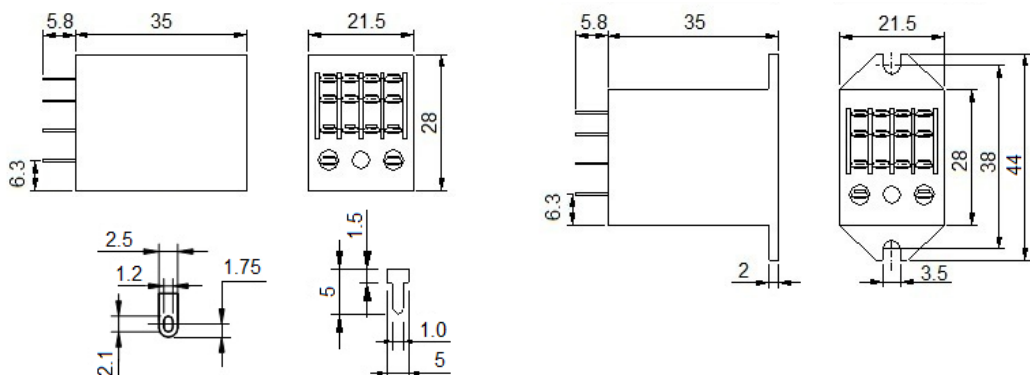
Ambient Temperature	-40 ~ +70℃
Operate Time	≤ 25ms
Release Time	≤ 25ms
Relative Humidity	5%~85%
Weight	Approx. 37g

● Ordering Information

	HB	B	-12D	L	-2C	(XXX)
Model						
Mounting	Nil: Socket P: PCB					
Termination	B: Flange-mounting					
Coil Voltage	5D~110D: 5VDC to 110VDC 6A~240A: 6VAC to 240VAC					
Component	Nil: Without Component L: With LED D: With Diode T: With Test Button					
Contact Arrangement	2C: 2 Form C 3C: 3 Form C 4C: 4 Form C					
Special Code	Nil: Standard XXX: Customer special requirement					

● Dimensions (UNIT: mm)

Outline Dimensions

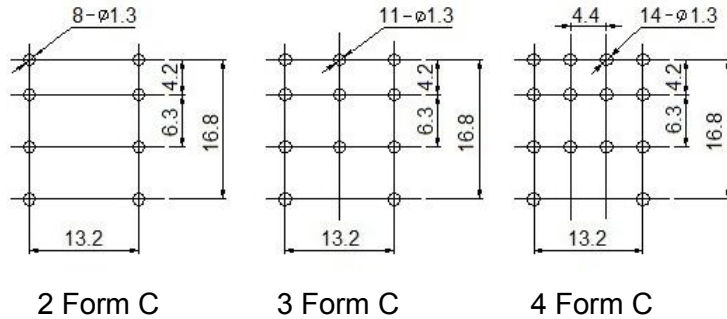


Plug-In Type

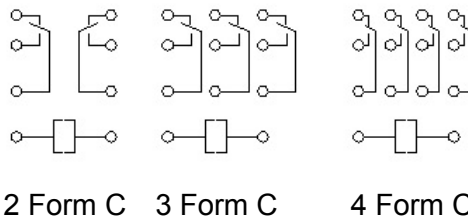
PCB Type

● Dimensions (UNIT: mm)

Mounting (Bottom views)



Wiring Diagram (Bottom views)



Notes: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $>1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $>5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.

2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

● Engineering Data

