

1 Form A Plug-in type



Form A type also available with 48A contact capacity

Refer to data sheet, starting on [page 9](#).

FEATURES

1. Excellent resistance to contact welding

Owing to the pre-tension and kick-off mechanism, the 1 Form A passes TV-15 and the 2 Form A passes TV-10.

2. High-capacity and long life

Contact arrangement	1 Form A type	2 Form A type
Contact capacity	30A	20A
Electrical life (at 20 times/min.)	2×10 ⁵	
Mechanical life (at 180 times/min.)	DC type: 10 ⁷ , AC type: 5×10 ⁶	

3. Excellent surge resistance

Between contacts and coil, the surge voltage is more than 10,000 V (when surge waveform accords with JEC-212-1981).

4. Compatible with all major safety standards

UL, CSA, VDE and TÜV certified

TYPICAL APPLICATIONS

1. Office equipment

Copiers, package air conditioners, automatic vending machines.

2. Industrial equipment

Machine tools, molding equipment, wrapping machines, food processing equipment, etc.

3. Home appliances

Air conditioners, microwave ovens, televisions, stereo systems, water heaters and air heating equipment.

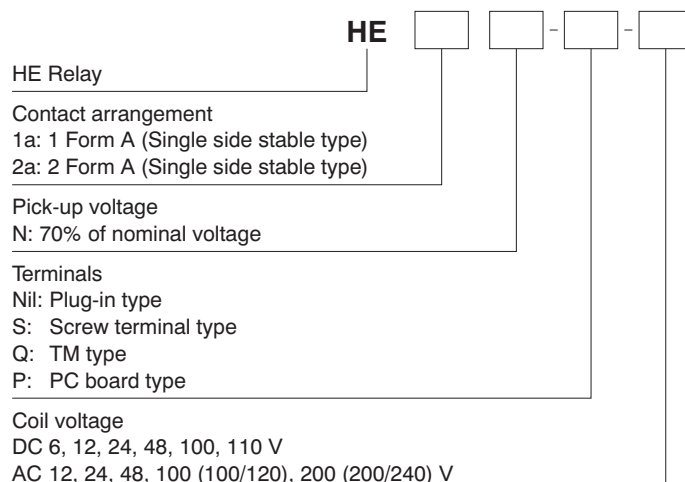
Type	Single side stable type HE 1 Form A, 2 Form A	
Insulation gap	Min. 8 mm	
Distance between contacts*	1 Form A and 2 Form A: Min. 3 mm	PC board type: Min. 2.5 mm
Breakdown voltage	Between open contacts	2, 000 Vrms for 1 min.
	Between contact and coil	5, 000 Vrms for 1 min.

*Reference value

CLASSIFICATION

Type	PC board	Plug-in		TM		Screw terminal	
Operating function	Single side stable						
Contact arrangement	1 Form A	1 Form A	2 Form A	1 Form A	2 Form A	1 Form A	2 Form A

ORDERING INFORMATION



TYPES**1. PC board type (1 Form A, DC coil) (Single side stable)**

Coil voltage	1 Form A		Packing quantity	
	Part No.		Carton	Case
6V DC	HE1aN-P-DC6V		25 pcs.	100 pcs.
12V DC	HE1aN-P-DC12V			
24V DC	HE1aN-P-DC24V			
48V DC	HE1aN-P-DC48V			
100V DC	HE1aN-P-DC100V			
110V DC	HE1aN-P-DC110V			

2. Plug-in type (Single side stable)

Type	Coil voltage	1 Form A		2 Form A		Packing quantity	
		Part No.		Part No.		Carton	Case
DC type	6V DC	HE1aN-DC6V	HE2aN-DC6V	20 pcs.	100 pcs.		
	12V DC	HE1aN-DC12V	HE2aN-DC12V				
	24V DC	HE1aN-DC24V	HE2aN-DC24V				
	48V DC	HE1aN-DC48V	HE2aN-DC48V				
	100V DC	HE1aN-DC100V	HE2aN-DC100V				
AC type	110V DC	HE1aN-DC110V	HE2aN-DC110V	20 pcs.	100 pcs.		
	12V AC	HE1aN-AC12V	HE2aN-AC12V				
	24V AC	HE1aN-AC24V	HE2aN-AC24V				
	48V AC	HE1aN-AC48V	HE2aN-AC48V				
	100/120V AC	HE1aN-AC100V	HE2aN-AC100V				
	200/240V AC	HE1aN-AC200V	HE2aN-AC200V				

3. TM type (Single side stable)

Type	Coil voltage	1 Form A		2 Form A		Packing quantity	
		Part No.		Part No.		Carton	Case
DC type	6V DC	HE1aN-Q-DC6V	HE2aN-Q-DC6V	20 pcs.	100 pcs.		
	12V DC	HE1aN-Q-DC12V	HE2aN-Q-DC12V				
	24V DC	HE1aN-Q-DC24V	HE2aN-Q-DC24V				
	48V DC	HE1aN-Q-DC48V	HE2aN-Q-DC48V				
	100V DC	HE1aN-Q-DC100V	HE2aN-Q-DC100V				
	110V DC	HE1aN-Q-DC110V	HE2aN-Q-DC110V				
AC type	12V AC	HE1aN-Q-AC12V	HE2aN-Q-AC12V	20 pcs.	100 pcs.		
	24V AC	HE1aN-Q-AC24V	HE2aN-Q-AC24V				
	48V AC	HE1aN-Q-AC48V	HE2aN-Q-AC48V				
	100/120V AC	HE1aN-Q-AC100V	HE2aN-Q-AC100V				
	200/240V AC	HE1aN-Q-AC200V	HE2aN-Q-AC200V				