

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 <sup>5</sup>	
Mechanical life (at 180 times/min.)	DC type: 10 <sup>7</sup> , AC type: 5×10 <sup>6</sup>	

### 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.

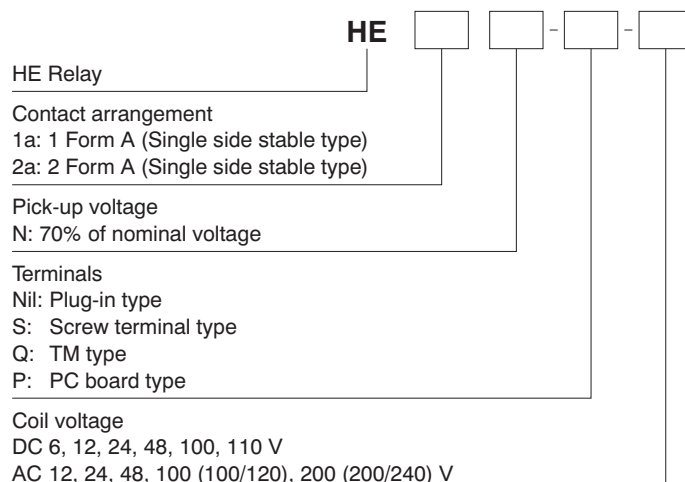
Type	Single side stable type HE 1 Form A, 2 Form A	
Insulation gap	Min. 8 mm	
Distance between contacts*	1 Form A and 2 Form A: Min. 3 mm	PC board type: Min. 2.5 mm
Breakdown voltage	Between open contacts	2, 000 Vrms for 1 min.
	Between contact and coil	5, 000 Vrms for 1 min.

\*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				
AC type	110V DC	HE1aN-Q-DC110V	HE2aN-Q-DC110V	20 pcs.	100 pcs.		
	12V AC	HE1aN-Q-AC12V	HE2aN-Q-AC12V				
	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					