



**TV-10/TV-15 rated
1a 30A, 2a 25A
power relays**

HE RELAYS



1 Form A Plug-in type

RoHS compliant

Protective construction:

- Dust cover type: Plug-in, TM and Screw terminal types
- Flux-resistant type: PC board type

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	25A
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

5. Terminals are available

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

Water heaters and air heating equipment.

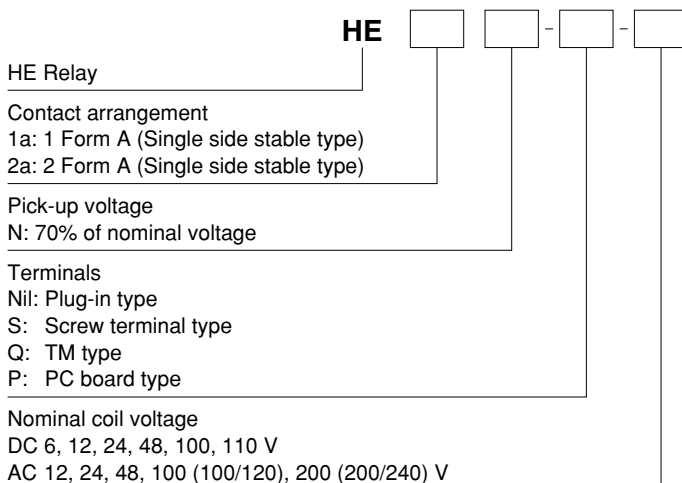
Type	Single side stable type	
Insulation gap	HE 1 Form A, 2 Form A Min. 8 mm	
Distance between contacts*	Plug-in, TM and Screw terminal types: Min. 3 mm .118 inch	PC board type: Min. 2.5 mm .098 inch
Breakdown voltage	Between open contacts	2, 000 Vrms for 1 min.
	Between contact and coil	5, 000 Vrms 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 type)

Nominal coil voltage	1 Form A	
	Part No.	
6V DC	HE1aN-P-DC6V	
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	

Standard packing: Carton: 25 pcs.; Case: 100 pcs.

2. Plug-in type (Single side stable type)

Type	Nominal coil voltage	1 Form A		2 Form A	
		Part No.		Part No.	
DC type	6V DC	HE1aN-DC6V		HE2aN-DC6V	
	12V DC	HE1aN-DC12V		HE2aN-DC12V	
	24V DC	HE1aN-DC24V		HE2aN-DC24V	
	48V DC	HE1aN-DC48V		HE2aN-DC48V	
	100V DC	HE1aN-DC100V		HE2aN-DC100V	
	110V DC	HE1aN-DC110V		HE2aN-DC110V	
AC type	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	

Standard packing: Carton: 20 pcs.; Case: 100 pcs.

3. TM type (Single side stable type)

Type	Nominal coil voltage	1 Form A		2 Form A	
		Part No.		Part No.	
DC type	6V DC	HE1aN-Q-DC6V		HE2aN-Q-DC6V	
	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	
	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	

Standard packing: Carton: 20 pcs.; Case: 100 pcs.

4. Screw terminal type (Single side stable type)

Type	Nominal coil voltage	1 Form A		2 Form A	
		Part No.		Part No.	
DC type	6V DC	HE1aN-S-DC6V		HE2aN-S-DC6V	
	12V DC	HE1aN-S-DC12V		HE2aN-S-DC12V	
	24V DC	HE1aN-S-DC24V		HE2aN-S-DC24V	
	48V DC	HE1aN-S-DC48V		HE2aN-S-DC48V	
	100V DC	HE1aN-S-DC100V		HE2aN-S-DC100V	
	110V DC	HE1aN-S-DC110V		HE2aN-S-DC110V	
AC type	12V AC	HE1aN-S-AC12V		HE2aN-S-AC12V	
	24V AC	HE1aN-S-AC24V		HE2aN-S-AC24V	
	48V AC	HE1aN-S-AC48V		HE2aN-S-AC48V	
	100/120V AC	HE1aN-S-AC100V		HE2aN-S-AC100V	
	200/240V AC	HE1aN-S-AC200V		HE2aN-S-AC200V	

Standard packing: Carton: 10 pcs.; Case: 50 pcs.

Note: The TM type of the screw terminals are also available.

* Terminal sockets available.