



**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.

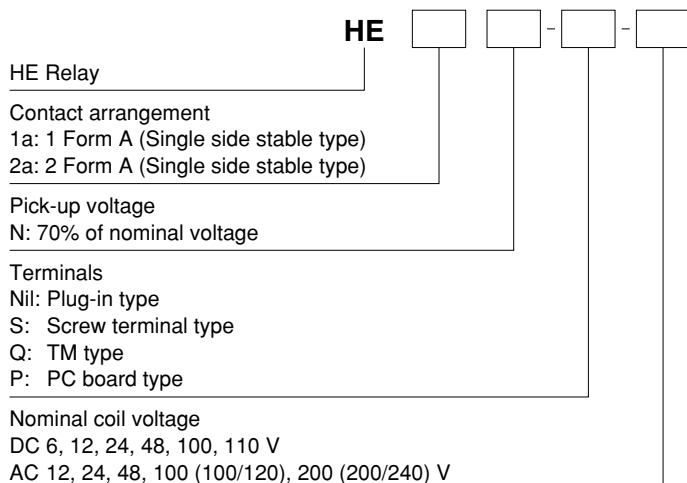
Type	Single side stable type	
Insulation gap	HE 1 Form A, 2 Form A	
Distance between contacts*	Min. 8 mm	
Breakdown voltage	Plug-in, TM and Screw terminal types: Min. 3 mm .118 inch	PC board type: Min. 2.5 mm .098 inch
	Between open contacts	2, 000 Vrms for 1 min.
	Between contact and coil	5, 000 Vrms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