4. Screw terminal type (Single side stable)

Туре	Coil voltage	1 Form A	2 Form A	Packing quantity	
	Coll voltage	Part No.	Part No.	Carton	Case
DC type	6V DC	HE1aN-S-DC6V	HE2aN-S-DC6V		50 pcs.
	12V DC	HE1aN-S-DC12V	HE2aN-S-DC12V		
	24V DC	HE1aN-S-DC24V	HE2aN-S-DC24V	10 200	
	48V DC	HE1aN-S-DC48V	HE2aN-S-DC48V	10 pcs.	
	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		50 pcs.
	24V AC	HE1aN-S-AC24V	HE2aN-S-AC24V		
	48V AC	HE1aN-S-AC48V	HE2aN-S-AC48V	10 pcs.	
	100/120V AC	HE1aN-S-AC100V	HE2aN-S-AC100V		
	200/240V AC	HE1aN-S-AC200V	HE2aN-S-AC200V		

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

RATING

1. Coil data

1) AC coils

Coil voltage	Pick-up voltage (at 20°C 68°F)	Drop-out voltage (at 20°C 68°F)	Nominal operating current [±10%] (at 20°C 68°F)	Nominal operating power	Max. allowable voltage (at 20°C 68°F)	
12V AC			138mA	1.7VA		
24V AC	70%V or less of 15%V or mo	10,010	74mA	1.8VA	4400() / - 5	
48V AC	nominal voltage		39mA	1.9VA	110%V of nominal voltage	
100/120V AC	(Initial) (Initial)	(Initial)	18.7 to 2.1mA	1.9 to 2.7VA	nominal voltage	
200/240V AC			9.1 to 10.8mA	1.8 to 2.6VA		

2) DC coils

Coil voltage	Pick-up voltage (at 20°C 68°F)	Drop-out voltage (at 20°C 68°F)	Nominal operating current [±10%] (at 20°C 68°F)	Coil resistance [±10%] (at 20°C 68°F)	Nominal operating power	Max. allowable voltage (at 55°C 131°F)
6V DC	70%V or less of nominal voltage (Initial) 10%V or more of nominal voltage (Initial)		320mA	18.8Ω	1.92W	110%V of
12V DC			160mA	75Ω	1.92W	
24V DC			80mA	300Ω	1.92W	
48V DC			40mA	1,200Ω	1.92W	nominal voltage
100V DC		()	19mA	5,200Ω	1.92W	
110V DC		18mA	6,300Ω	1.92W		

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HE

2. Specifications

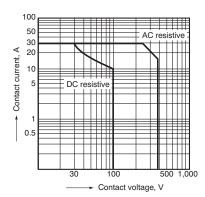
Characteristics	Item		Specifications		
	Arrangement		1 Form A	2 Form A	
Contact	Initial contact resistar	nce, max	Max. 100 mΩ (By voltage drop 6 V DC 1A)		
	Contact material		AgSnO₂ type		
Rating -	Nominal switching capacity (resistive load)		30A 277V AC	25A 277V AC	
	Max. switching power		8,310VA	6,925VA	
	Max. switching voltage		277V AC, 30V DC		
	Max. switching current		30A	25A	
	Nominal operating power		DC: 1.92W, AC: 1.7 to 2.7VA		
	Min. switching capacity (Reference value)*1		100mA 5V DC		
	Insulation resistance (Initial)		Min. 1,000M Ω (at 500V DC) Measurement at same location as "Initial breakdown voltage" section.		
		Between open contacts	2,000 Vrms for 1min (Detection current: 10mA.)		
	Breakdown voltage (Initial)	Between contact sets	_	4,000 Vrms for 1min (Detection current: 10mA.)	
	(IIIIuai)	Between contact and coil	5,000 Vrms for 1min (Detection current: 10mA.)		
Electrical characteristics	Surge breakdown voltage ⁻² (between contact and coil)		Min. 10,000V (initial)		
	Temperature rise		DC: Max. 60°C (at 55°C) (By resistive method), AC: Max. 65°C (at 55°C) (By resistive method)		
-	Operate time (at nominal voltage)		Max. 30ms (excluding contact bounce time)		
	Release time (at nominal voltage)		DC: Max.10ms (excluding contact bounce time, without diode), AC: Max. 30ms (excluding contact bounce time)		
Mechanical characteristics	Shock resistance	Functional	Min. 98 m/s² (Half-wave pulse of sine wave: 11 ms; detection time: 10µs.)		
		Destructive	Min. 980 m/s² (Half-wave pulse of sine wave: 6 ms.)		
	Vibration resistance	Functional	10 to 55 Hz at double amplitude of 1 mm (Detection time: 10μs.)		
		Destructive	10 to 55 Hz at double amplitude of 1.5 mm		
Expected life	Mechanical		DC: Min. 10 ⁷ (at 180 times/min.), AC: Min. 5×10 ⁶ (at 180 times/min.)		
	Electrical (resistive load) (at 20 times/min.)		Min. 10 ⁵ (30A 277V AC) Min. 2×10 ⁵ (30A 250V AC)	Min. 10 ⁵ (25A 277V AC) Min. 2×10 ⁵ (20A 250V AC)	
Conditions	Conditions for operation, transport and storage ^{r3}		Ambient temperature: -50°C to +55°C -58°F to +131°F Humidity: 5 to 85% R.H. (Not freezing and condensing at low temperature), Air pressure: 86 to 106kPa		
	Conditions for operation, transport and storage*3		20 times/min. (at max. rating)		
Unit weight	· · · · · · · · · · · · · · · · · · ·		PC board type: approx. 80g 2.82oz, Plug-in type/TM type: approx. 90g 3.17oz, Screw terminal type: approx. 120g 4.23oz		

This value can change due to the switching frequency, environmental conditions, and desired reliability level, therefore it is recommended to check this with the

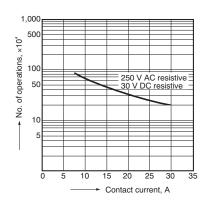
REFERENCE DATA

1 Form A Type

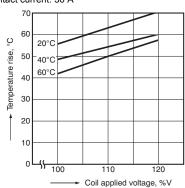
1. Maximum switching power



2. Life curve



3. Coil temperature rise (DC type) Measured portion: Inside the coil Contact current: 30 A



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wave is standard shock voltage of ±1.2×50μs according to JEC-212-1981

The upper limit of the ambient temperature is the maximum temperature that can satisfy the coil temperature rise value. Refer to "6. Usage, Storage and Transport Conditions" in AMBIENT ENVIRONMENT section in Relay Technical Information.