HES-300



Characteristic

- Ceramic sealing structure using magnetic blowing out technology and filled with hydrogen gas mixture, achieving anti contact oxidation, zero arc, low contact resistance. A new safe, stable, and reliable solution.
- Built in a set of normally open auxiliary contacts.
- No polarity requirement during loading.
- Environmental protection: All parts comply with the latest EU ROHS environmental protection requirements.
- Approval: UL, CE, TÜV

Contact parameter		
Contact type	1H	
Contact resistance	≤0.3mΩ(at 300A 23°C)	
Contact rated current	300A	
Max. switching voltage	2000VDC	
Max. breaking current	2000A (1 op)	
Max. switching power	1000VDC 300KW	
	1500VDC 450KW	
	300A: keeping	
	400A: 10min	
Current carrying capacity	600A: 90s	
	2000A: 1s	

Note: Current carrying capacity data is tested at ambient temperature of 85°C, cross section≥50mm², more detail, please see curve.

Coil parameter			
Rated voltage VDC	Operational voltage VDC	Release voltage VDC	Coil power W
12	≤9.6	≥1	5
24	≤ 19.2	≥2	5

Note: The operational voltage and release voltage are conservative values in the full temperature range (−40°C ~ +85°C) .

Environmental characteristics			
Shock	Stability	98m/s ²	
	Strength	490m/s ²	
Vibration		10Hz ~ 55Hz 49m/s ²	
Humidity		5% ~ 85%RH	
Ambient temperature		-40°C ~ +85°C	
IP grade		IP67 (contact)	

	Life
Mechanical endurance	2×10 ⁵ ops
	100A 1500Vdc. 5×10 ³ ops
	150A 1500Vdc. 3×10 ³ ops
Electrical Endurance	300A 1500Vdc. 1×10 ³ ops
(Breaking)	300A 2000Vdc. 100 ops
	1000A 1500Vdc. 1 ops
	2000A 1000Vdc. 1 ops

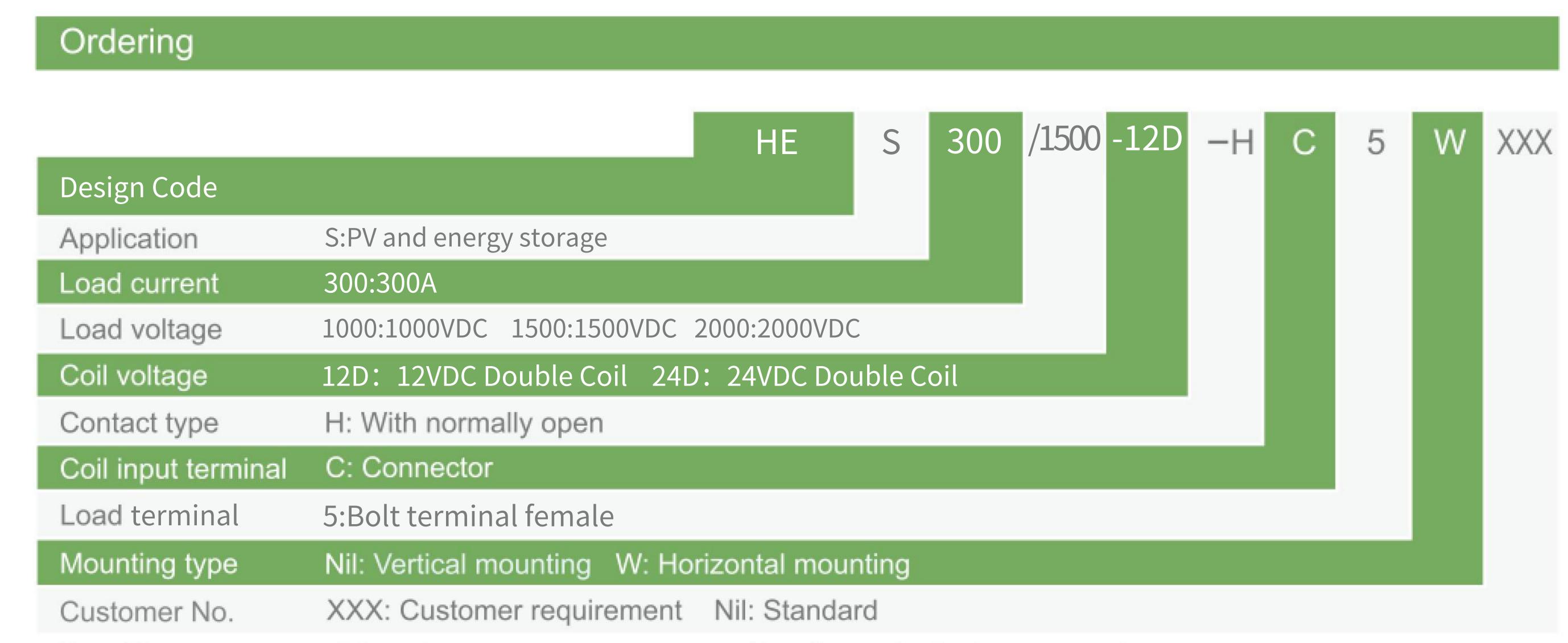
Note 1: Except for special notes, the ambient temperature of electrical durability test is 23°C and the on-break ratio is 0.6s:5.4s.

Note 2: When the relay is used to control the main circuit of charge and discharge, the pre-charge circuit should be added. If there is no pre-charging path, a transient large current will be generated when the relay closes, which may cause the relay to stick.

Electrical characteristics

	Insulation resistance		≥1000MΩ (2000VDC 1min)
	Dielectric	between contact and coil	5000VAC 1min
	voltage	between open contacts	5000VAC 1min
	Operate time (at nomi. volt.)		≤30ms
	Release time (at nomi. volt.)		≤10ms
Note: The data shown above are initial		l values.	

Other	
Terminal	M6 internal thread
Mounting torque at load end	M6 6~8N · m
Outline dimension	104mm×70mm×89mm
Weight	≈1100g



Note: The customer special requirement express as customer No. after evaluating between each party.

Outline, coil wiring, installation hole

Unit: mm

HES-300/1500/xxx-xxD-HAC5

