



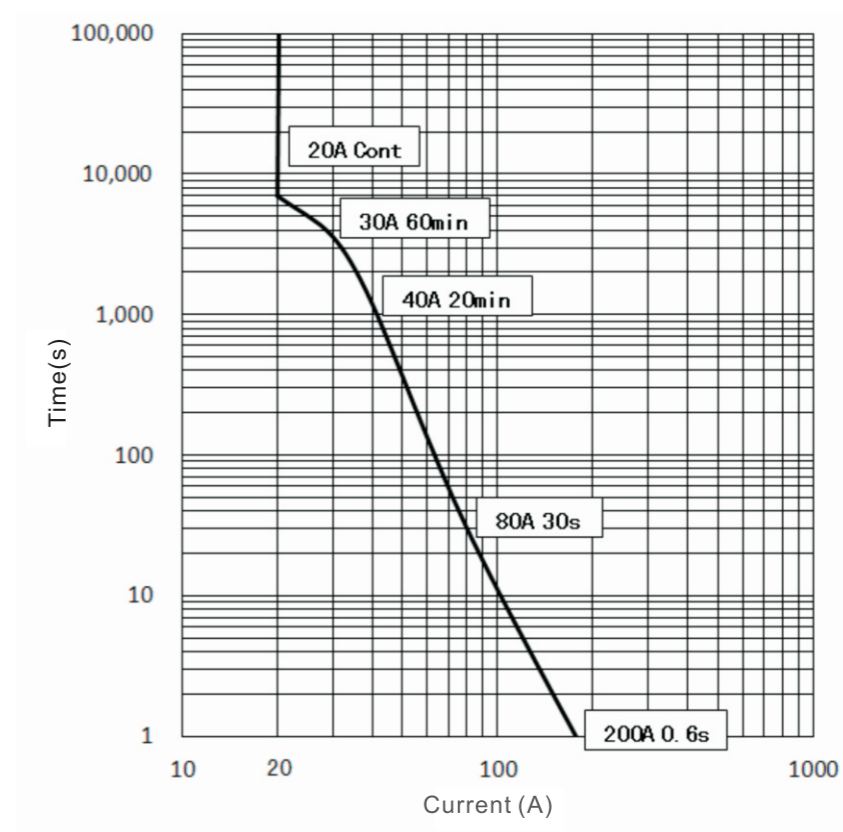
FEATURE

- 20A Contact switch capacity, Small volume;
- A set of bridge type N.O.contacts; contact circuit has "+", "-" polarity;
- Application: New energy vehicles pre-charge;
- Comply with the ROHS

SPECIFICATION		
NO.	Product No.	DH20
1	Contact type	1H (SPST-NO)
2	Rated load current of contact (Resistive load)	20A (DC-1)
3		450V type 60V type
4	The max switching voltage	450VDC 72VDC
5	The max switch current	35A (450VDC, >1time) 30A (72VDC, >1time)
6	The max switching power	9kW 1.44kW
7	Electrical life (at resistive load)	Switch: 1×10 ⁴ times (450VDC, 20A) Switch: 1×10 ⁵ times (72VDC, 20A)
		Switch: 5×10 ⁴ times (450VDC, 10A)
		Connect: 1×10 ⁵ times (450VDC, 20A)
8	Contact resistance	≤10mΩ(20A)
9	Pick-up time (at rated voltage)	Max. 30ms.
10	Release time (at rated voltage)	Max. 10ms.
11	Vibration (Sinusoid、10~500HZ、peak)	(10~500)HZ, ≤5g
12	Shock	Stability
		Strength
13	Operating ambient temperature	-40℃~+85℃
14	Storage ambient temperature	-40℃~+65℃
15	Relative humidity	20%~90% RH
16	Insulation resistance	Min. 1000MΩ @ 500VDC
17	Dielectric strength	Between contact point and coil
		Between break contact points
18	Current carrying capacity	20A: Continuous
		30A: 1h
		40A: 20min
		80A: 30s
		120A:10s
		200A: 0.6s
19	Mechanical life	300,000 times
20	Mounting direction	Any direction
21	Working duty	Continuous
22	Product weight	About 50g

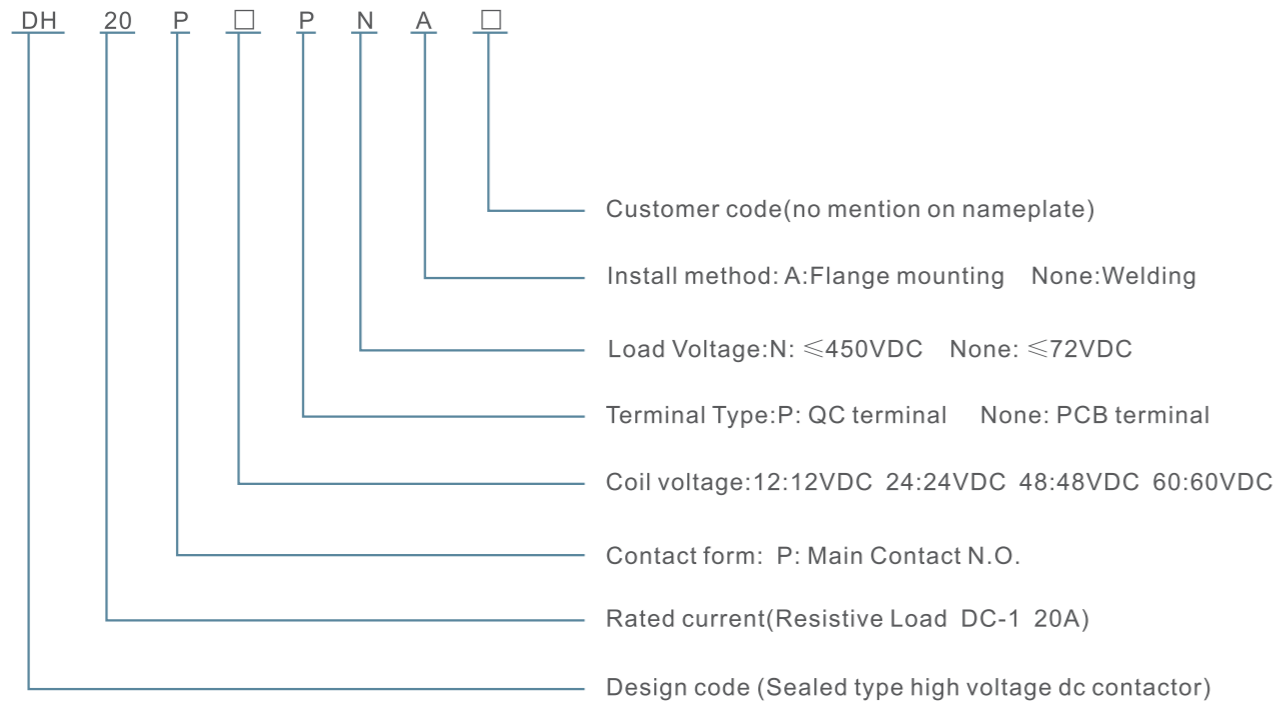
Coil Data						
P/N	Coil voltage (V)	Coil operating voltage(V)	Pick-up voltage(V)	Release voltage(V)	Maintain current(A)	Coil power (W)
DH20	12	0.85US~1.1US	≤9	≥1	≤0.3	2.5~3.5W
	24		≤18	≥2	≤0.15	
	48		≤36	≥4	≤0.1	
	60		≤45	≥5	≤0.06	

Endurance Capacity Curve



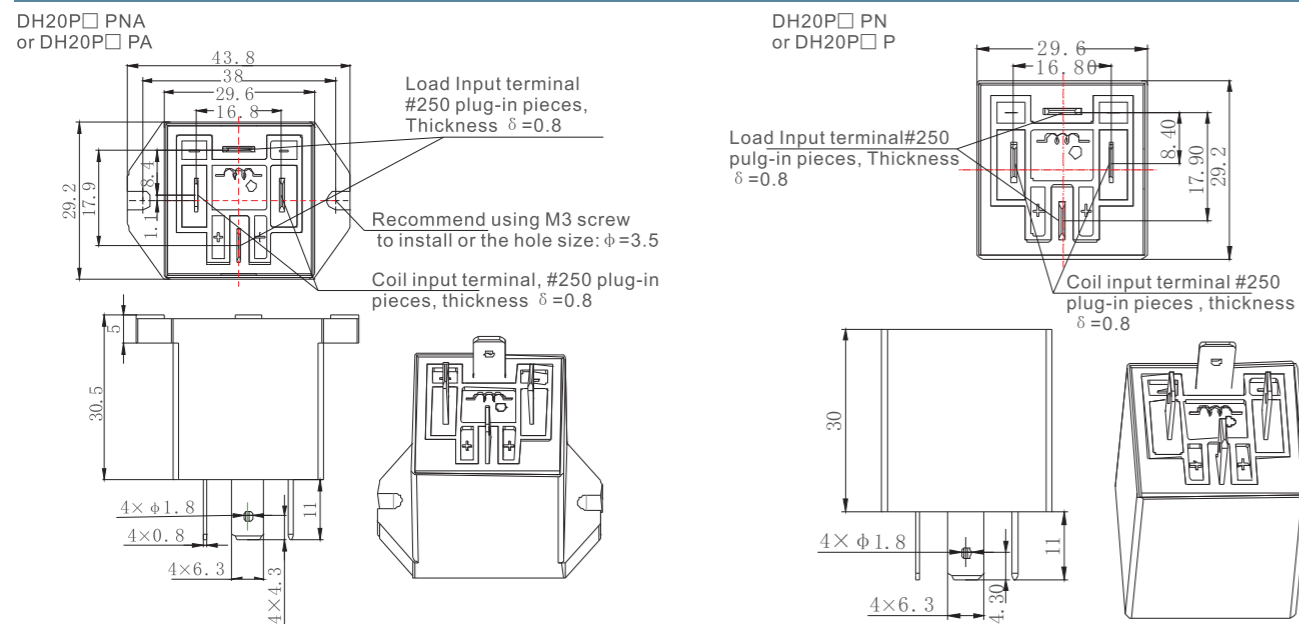
Note: The above data is tested at the condition of ambient temperature of 85 °C and wire cross-sectional area ≥2.5mm². The data is for reference only, please do not use for selecting fuse.

Product Model Define



For example:DH20P12PNA means: Sealed type high voltage dc contactor, rated current is 20A with DC-1 load, main contact N.O., coil voltage is 12VDC, QC terminal(strip type), load voltage≤450VDC, flange mounting.

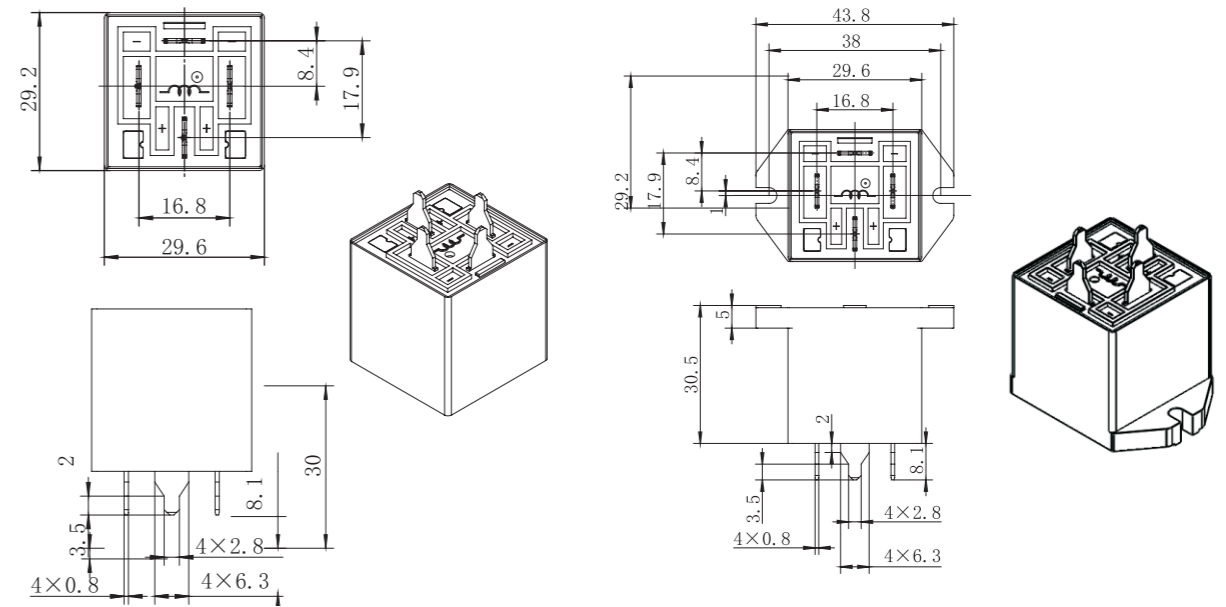
Outline mounting dimension and circuit diagram



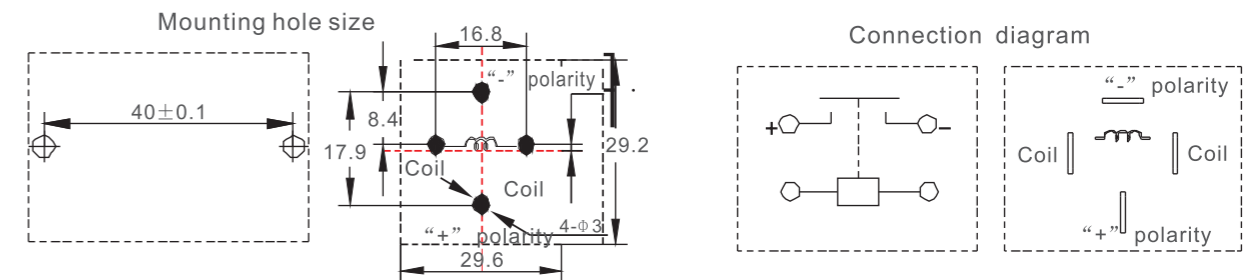
For example: DH20P12N means: Sealed type high voltage dc contactor. Rated current is 20A with DC-1 load, main contact N.O., coil voltage is 12VDC, PCB terminal, load voltage≤450VDC, PCB welding.

Outline mounting dimension and circuit diagram

DH20P□N or DH20P□



Mounting hole size& connection diagram



Dimension (mm)	Tolerance grade not noted (mm)
<1	±0.2
1~5	±0.3
>5	±0.4

Note: The main contact are polarized; Connect “+” polarity to the QC terminal with “+” mark, and connect “-” polarity to the QC terminal with “-” mark.