の記憶で見る。 Neptune Electric HVDC Relay NVR6V-200S



Ceramic Series

Features

- RoHS compliant;
- Contacts sealed in ceramic capsules and inert gas;
- Contacts protected against contamination. e.g oxidation and corrosion;
- Magnet arc blowout;
- Up to 900VDC Cutoff;
- Compact and lightweight;

Applications

- Main contactors for larger hybrid electric vehicles(HEV), plug-in hybrids(PHEV) and full electric vehicles(BEV);
- ♦ Battery charging systems;
- Power charging devices;
- ♦ Solar power systems;
- Could server and uninterrupted power supply(UPS)

Product Code Structure

	<u>NVR6 V</u> - <u>200</u>	<u>s</u> / <u>750</u> - <u>12</u>	- <u>HB5(</u>
Series			
DC input in vehicle areas			
Load current: 200:200A			
Series code			
Load voltage: 450:450V;750:750V			
Coil voltage: 12:12V;24:24V			
Contact arrangement: H:SPST-NO;			
Coil termination: B:Connector+Wire			
Load termination:5:Internal thread			
Customized code			

Coil Data

Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Rated operating power W
12	≪9	≥1	7.5
24	≤18	≥2	7.5

1) Operate voltage and release voltage may vary with environmental temperature.

2) The ripple factor should be under 5%.





Main Contact Data

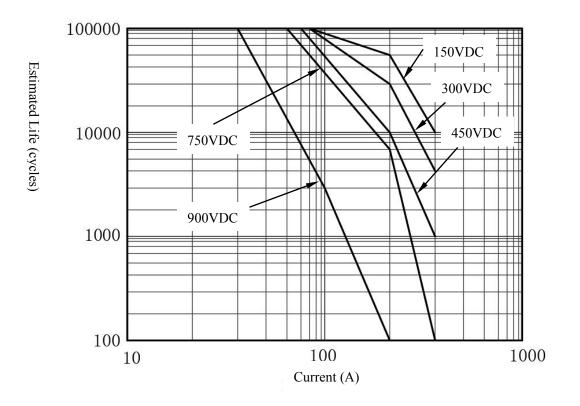
Con	taat arrangement	1H	
Contact arrangement		111	
Initial contact resistance		$\leq 3m \Omega$ (6V DC/20A)	
	Rated current	200A	
Limiting short-time current		400A:10min	
		800A:10s	
Max.	switching current	2000A (320V DC)	
(Overload break	300 times (400A/450V DC)	
	Reverse break	1000 times (200A/200V DC)	
Dielectric	Between contact and coil	3000V AC	
strength	Between contacts	3000V AC	
Insulation	Between contact and coil	Min: 1000MΩ (1kV DC)	
resistance	Between contacts		
	Operate time	≪50ms	
	Bounce time	<5ms	
	Release time	≤15ms	

Other Data

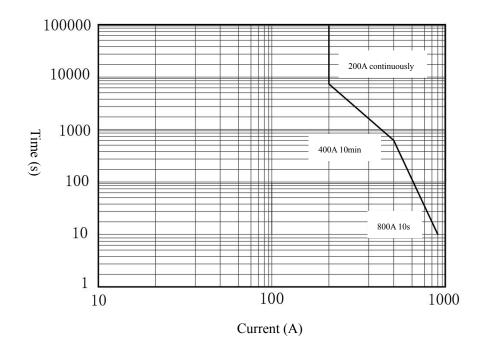
Mech		nical	2×10^5 times
Endurance	Electrical	450V DC	$1\! imes\!10^4{ m times}$
	(Resistive load)	750V DC	$6 imes 10^3$ times
	Shock resistance (Functional)		20G
Mechanical		esistance uctive)	50G
(Funct Vibration	resistance ional)	4G(10~500Hz)	
	resistance uctive)	4G(10~500Hz)	
Operational	Ambient te	emperature	-40°C∼+85°C
condition	Relative	humidity	5%~85% R.H.
	Weight		Approx. 600g



Estimated Life Diagram



Contacts Current Capacity Diagram



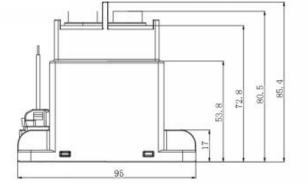


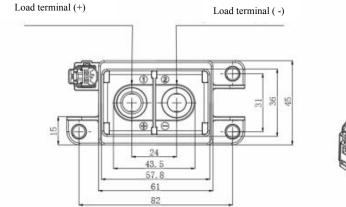


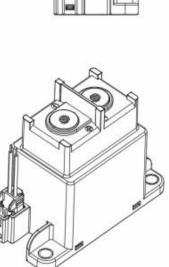
Ceramic Series

Dimensions (mm)

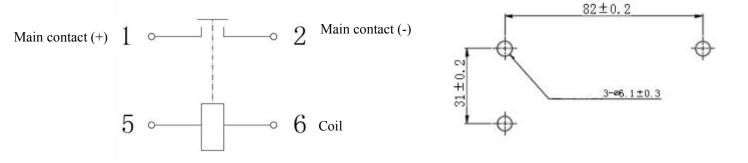
Permissible deviations for basic size range	Tolerance	
Up to 10	±0.3	
Over 10 up to 50	±0.6	
Over 50	±1.0	







Circuit and Layout Dimensions (mm)



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Cautions

- Please use relays in the conditions described in the specification. Otherwise product performance will not be guaranteed.
- \blacksquare Please add surge protection in parallel if an inductive load (L/R>1ms) is applied.
- Contact resistance may increases if a relay is operating without a load.
- Please connect the terminals correctly. Any wrong connection may cause circuit damage such as malfunction, overheat, and fire.
- Screwing-tightening condition: A) M5 Screw: 3Nm~4Nm (Tightening torque for fixing relay body)
 B) M6 Screw: 6Nm~8Nm (Tightening torque for contact terminal)
- Use the suitable wires or busbars according to the current.Carrying current:200Amps:diameter of 95mm² (min.).
- Standard operation condition:temperature-40°C~85°C,humidity 5%~85%R.H..
- If the relay is dropped, it should not be used again.

(Please do not determine specifications based on this document. Contact our sales staff for more information and supports.)