

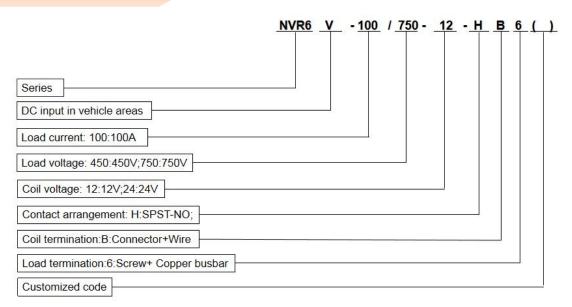
Features

- CCC and 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



Coil Data

Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Rated operating power W
12	≤8. 4	≥1	4. 5
24	≤16.8	≥2	4. 5

- 1) Operate voltage and release voltage may vary with environmental temperature.
- 2) The ripple factor should be under 5%.



Main Contact Data

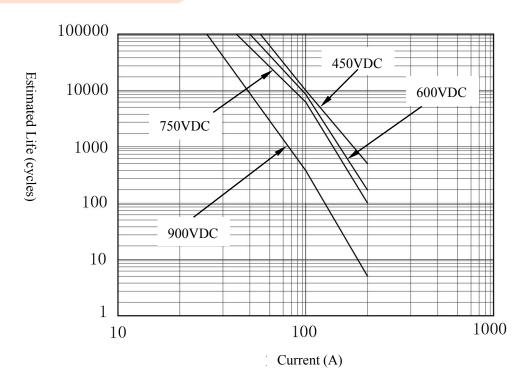
Con	tact arrangement	1H	
Initial contact resistance		≤5mΩ (6V DC/20A)	
Rated current		100A	
Limitin	Limiting short-time current 200A:10min 400A:10s		
LIMITIM			
Max.	switching current	1000A (320V DC)	
(Overload break	100 times (150A/400V DC)	
	Reverse break	1000 times (120A/200V DC)	
Dielectric	Between contact and coil	20001/ AC	
strength	Between contacts	3000V AC	
Insulation	Between contact and coil	Min: 1000MΩ (1kV DC)	
resistance	Between contacts	MIII: 1000M 22 (IKV DC)	
	Operate time	€30ms	
	Bounce time	<5ms	
Release time		≤10ms	

Other Data

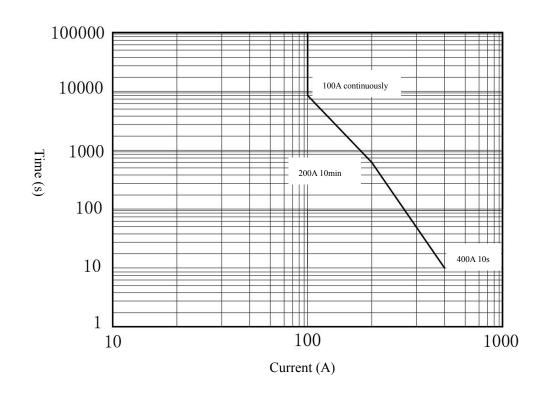
	Mecha	nical	$2 \times 10^5 \mathrm{times}$
Endurance	Electrical	450V DC	$1 \times 10^4 \mathrm{times}$
	(Resistive load)	750V DC	$6 \times 10^3 \mathrm{times}$
	Shock resistance (Functional) 20G	20G	
Mechanical		sistance uctive)	50G
performance	Vibration resistance (Functional)		4G(10~500Hz)
		resistance uctive)	4G(10~500Hz)
Operational	Ambient te	emperature	-40°C∼+85°C
condition	Relative humidity		5%∼85% R. H.
	Weight		Approx. 410g



Estimated Life Diagram



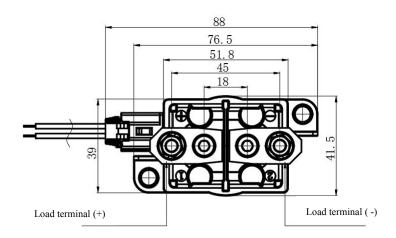
Contacts Current Capacity Diagram

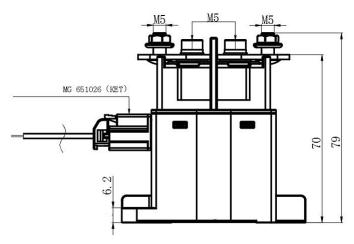


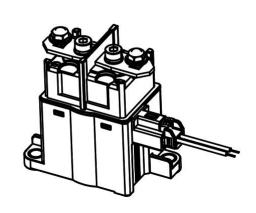


Dimensions (mm)

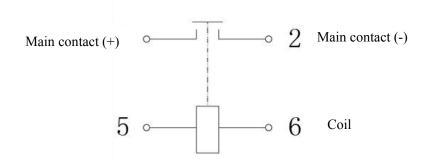
Permissible deviations for basic size range	Tolerance
Up to 10	±0.3
Over 10 up to 50	±0.6
Over 50	±1.0

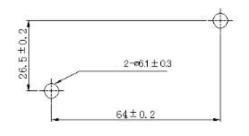






Circuit and Layout Dimensions (mm)







Cautions

- Please use relays in the conditions described in the specification. Otherwise product performance will not be guaranteed.
- 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) M5 Screw: 3Nm~4Nm (Tightening torque for contact terminal)
- Use the suitable wires or busbars according to the current. Carrying current:100Amps:diameter of 50mm² (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.)