HVC-350-P



Characteristic

- Strong control load capacity: rated operational voltage12VDC~1000VDC, rated operational current 350A
- •Safe: Fully sealed with epoxy resin, contact and coil will not be oxidized, product performance is not affected by external environment, no arc outbursts, can be worked in explosive and harmful environment
- Reliable: Adopt DC high voltage non polarity design, the breaking capacity is higher and more reliable, convenient and reliable installation/wiring
- Energy conservation: Using PWM control technology, effectively control the coil power and action characteristics, more energy saving
- ROHS: All components meet the latest EU RoHS environmental requirements

Contact parameter					
Main contact	Rated operational current le	350A			
	Rated operational voltage Ue	12~1000 VDC			
	Min. load	1A12VDC			
	Main contact type	1SH (SPST NO DM)			
	Nominal resistance of main circuit	0.2mΩ (@350A)			
	Main contact mounting	M8 external thread			
	Connecting torque	10 ~ 12 N·m			
	Max. switching current (more than one cycle)	2500A320VDC			
Auxiliary	Max. current	30VDC 2A, 125VAC 3A			
	Min. current	8VDC 100mA			
	Contact resistance	< 0.15Ω			

Coil parameter		
Rated voltage Us	12/24VDC	
Operational voltage Range	8~36 VDC	
Pick up voltage	7~8 VDC	
Release voltage	5~6 VDC	
Coil power	keeping: 2W	
Inrush current	3A (0.1s) (@12v)	
Holding current	0.17A@12V; 0.085A@24V	
Close time (@Us)	≤45ms	
Release time (@Us)	≤10ms	
Bounce time (@Us)	≤5ms	

Electrical characteristics			
Dielectric withstand voltage	DC3110V, AC2200V		
Insulation resistance	≥1000MΩ@1000VDC		
Nominal insulation voltage Ui	1000V		

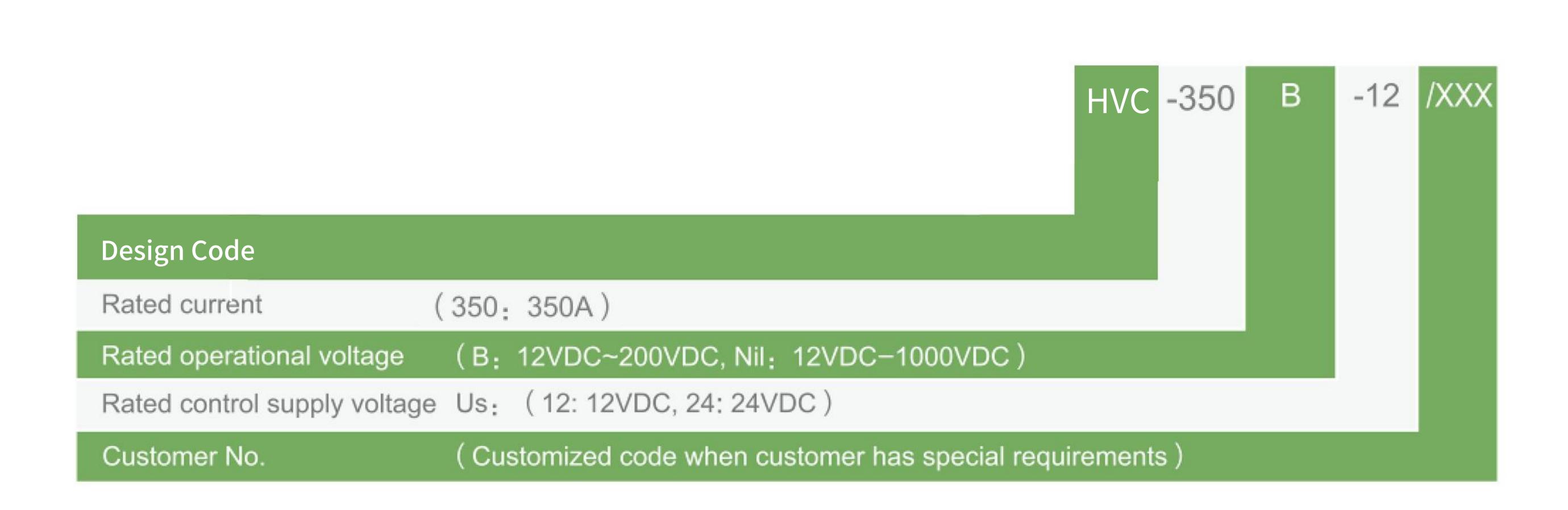
Life					
Mechanical life	300,000 cycles				
Resistive load life (L/R≤1ms	see next page				
Capacitive load life (RC=1ms, only connected)	450A	50,000 cycles			

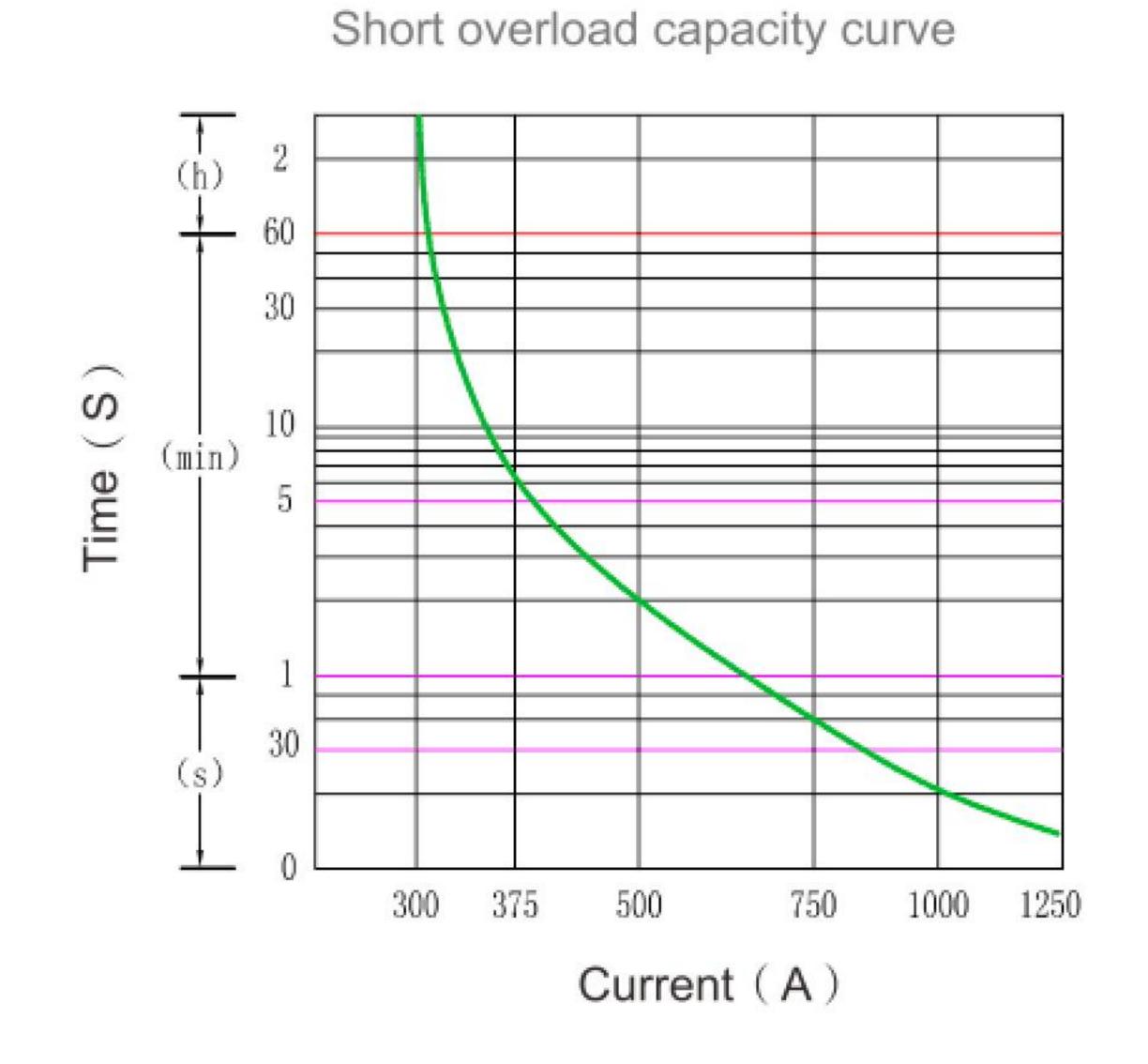
Note: For capacitive load life, When the contactor is used to control the main circuit of charge and discharge, the pre-charge circuit should be added. If there is no pre-charging path, a transient large current will be generated when the contactor closes, which may cause the contactor to stick

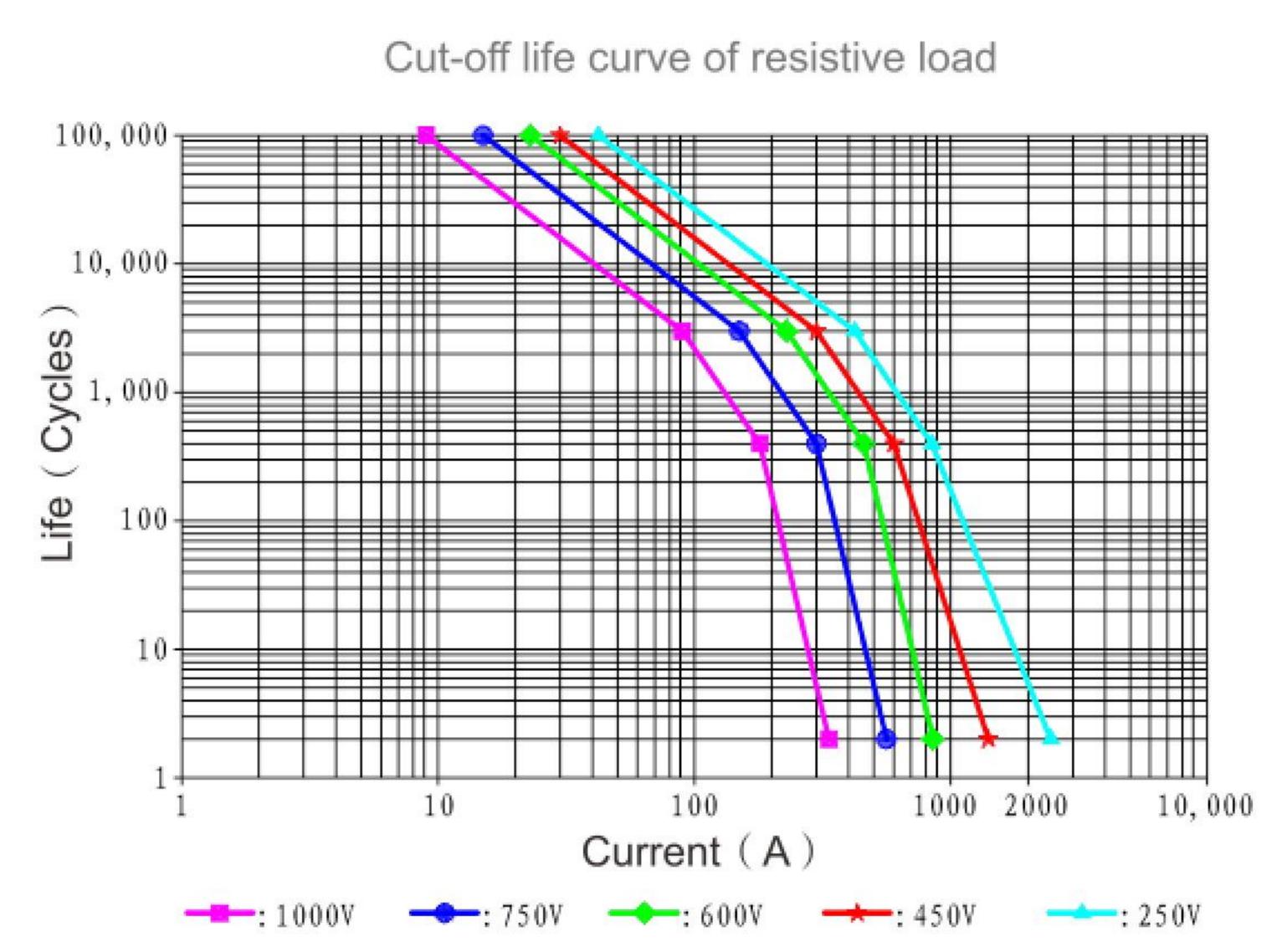
Environmental characteristics					
011-	Stability test	196m/s² (20G)			
Shock	Strength test	490m/s² (50G)			
Resistance to vibration		10~2000Hz, 20G			
Operating ar	mbient Temperature	-40°C ~+85°C			
Operating ambient humidity		5%~85% RH			
IP grade		IP67 (inner space)			
Altitude		≤4000m			

Other			
Weight	≈425g; with auxiliary≈430g		
The cross-sectional area of an external conductor	≥120mm²		

Ordering





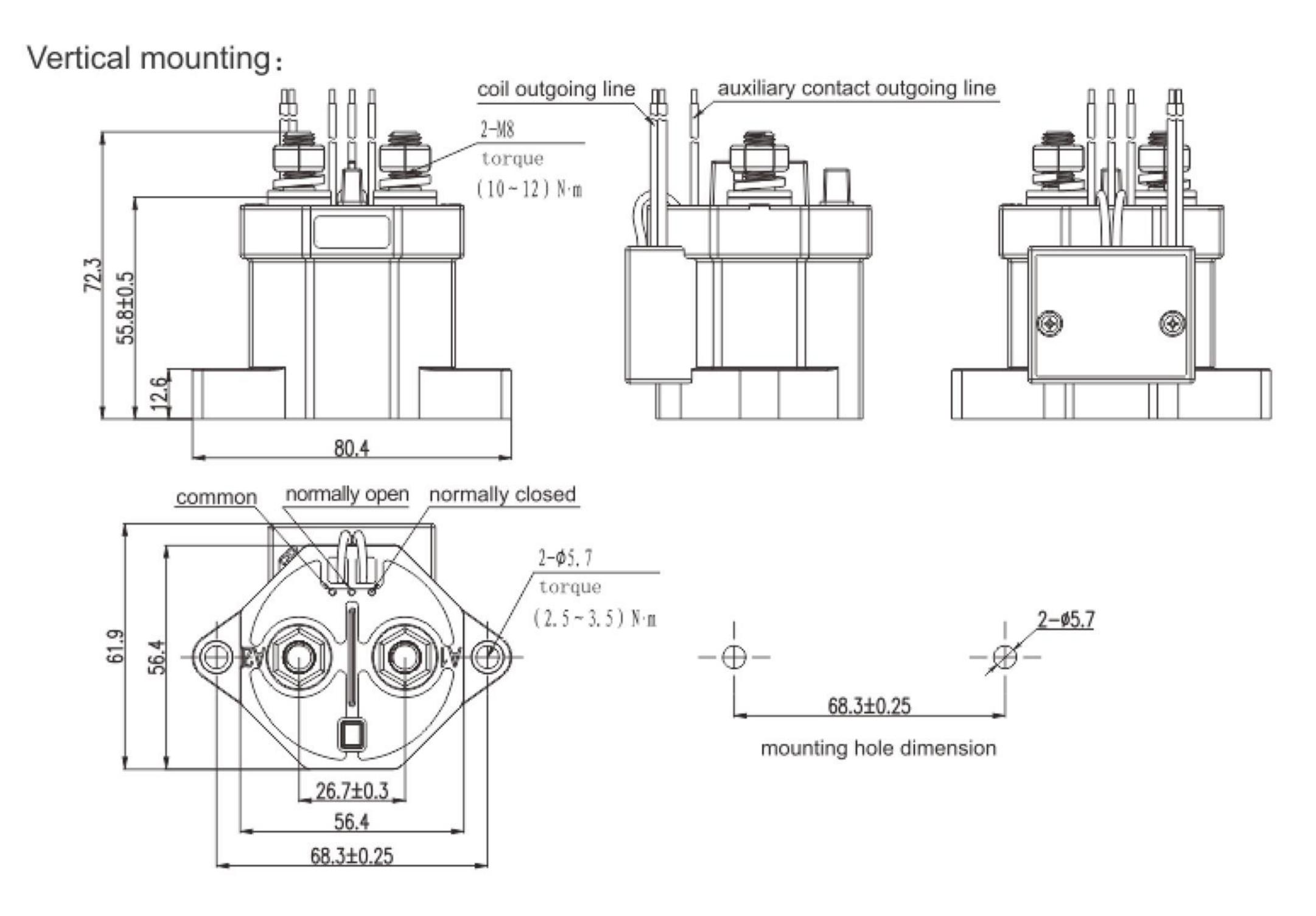


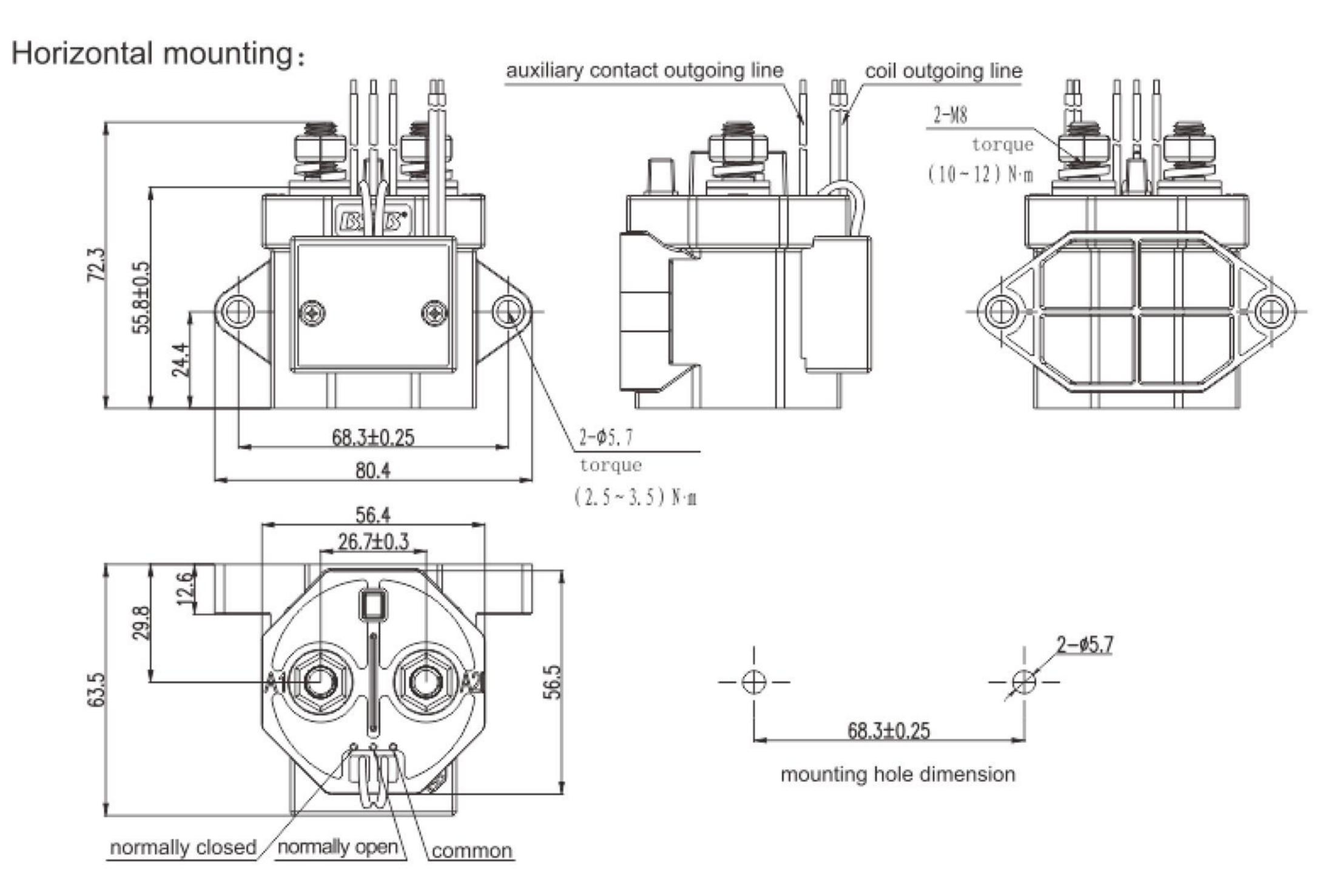
Note: Except for special notes, the ambient temperature of electrical durability test is 23℃, and the on-breakratiois: 1s: 9s;

elehub°



Unit: mm





outline dimension

HVC-350-P

Notes: outgoing line length: 300mm±20mm; product without tolerance, when≤10mm, tolerance ±0.3mm; when dimension between (10~50) mm, tolerance ±0.5mm; when dimension ≥50mm, tolerance ±0.8mm.

Notice

- 1. Using spring washers to prevent loose screws when installing contactors.
- 2. The torque of tightening screws should be within the specified range. Exceeding the maximum torque may lead to product breakage.
- 3. The main contact and control coil lead polarity requirements, can be customized.
- 4. The specification products with energy saving boards are equipped with a reverse surge absorption circuit, so there is no need to use surge protector any more. We suggest that the specification products without energy saving boards should be installed with varistors as surge protector, and the use of diodes should be avoided, because this will reduce the cutting ability of the products.
- 5. Do not use products that have been dropped.
- 6. Avoid placing the product near a strong magnetic field (near a transformer or magnet) or near an object with thermal radiation.
- 7. Electrical life

This contactor is a high-voltage dc switch. In its final breakdown mode, it may lose its proper cutting function, so it should not be used beyond its switching capacity and life parameters (please treat this contactor as a product with specified life, and replace it if necessary). Once the contactor loses its disconnection ability, it may not work properly, so design the circuit diagram to ensure that the power can be cut off within one second.

- 8. Diffusion life of internal gas
- This contactor adopts sealed bin contact, and the bin is filled with gas. The diffusion life of the gas is determined by the temperature in the contact bin (ambient temperature + temperature rise generated by contact electrification), so the ambient temperature should be -40°C to +85°C.
- 9. If the coil and contact of the contactor are continuously passed at the rated voltage (or current), the power was cut off and switched on immediately. At this time, as the temperature of the coil increases, the resistance of the coil will increase, which will increase the product's closed voltage, may cause excess of rated closed voltage. In this case, the following measures should be taken: Reduce the load current, limit the duration of continuous power or use coil voltage higher than the rated suction voltage.
- 10. For resistive load, the rated main contact rating shall apply, and for inductive load (L load) with L/R> for 1 millisecond, an inrush current protection device shall be connected to the inductive load in parallel.
- 11. The drive circuit power of the product coil must be greater than that of the product coil, otherwise the cutting ability of the product will be reduced.
- 12. Be careful not to let sundries and grease on the main lead out end, and the external wiring terminal should be in reliable contact with the main lead out end of the product, or it may cause the lead out end heat.
- 13. For the specification products with energy saving plate, after being connected, the coil will start to switch automatically after about 0.1 seconds.
 Do not repeatedly turn off at that position, which may damage the contactor.