BEVR SERIES

High voltage DC contactors

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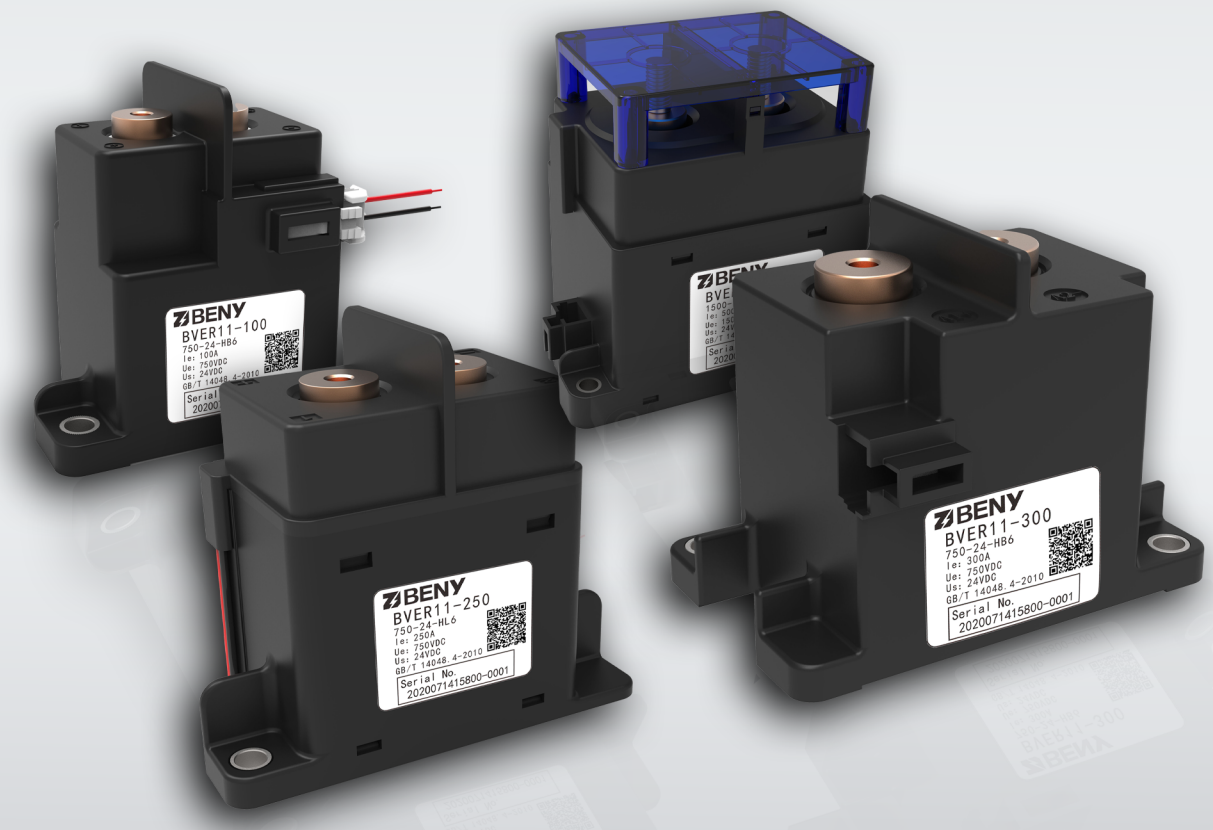


BEVR11-100A
High Voltage DC contactor

✧ FEATURES:

1. ceremic brazing sealing teconology.

2. Potting with hydrogen in case of electric shock and oxidative damage, low and stable contact resistance, contacts meets the standards of IP67 protection degree.

3. long current-carrying capability under 100 A 85 ℃

4. Flexible respond to emergencies with the capability of switching 10times of over curreent.

5. insulating resistance up to 1000VDC,contacts and coil can endure 4KV conform to the requrements of IEC 60664-1

✧ CONTACT DATA

	450V	750V
Contact arrangement	1 Form A	
Contact resistance	≤1.5mΩ	
Rated operational current	100A	
Mechanical endurance	2×10^5	
Max switching voltage	750VDC	750VDC
Max. breaking current	1000A(300VDC,≧1 op)	1000A(300VDC,≧1 op)
Max switching power	45kw	75kw
Capacitive loads	Switching: 2.5×10^4 ops (22.5VDC, τ =1ms,Inrush: 400A, Steady:100A)	Switching: 2.5×10^4ops (37.5VDC, τ =1ms,Inrush: 400A, Steady :100A
	Making:1 op (450VDC,τ=1ms, Inrush:1350A, Steady:100A)	
Resistive loads	Breaking: 1×10^4 ops (360VDC,50A)	Breaking:6×10^3ops (600VDC,50A)
	Switching: 3×10^3ops (450VDC,100A)	Switching: 1×10^3ops (750VDC,100A)
Current-carrying capacity	100A : Continuous; 120A: 2h; 200A: 10min 400A: 2min; 600A: 30s; 1000A: 0.6s	

Note: 1) Unless otherwise specified, the temperature of eletrical endurance is at 23°C and the on-off ratio is 0.6s:5.4s.

✧ CHARACTERISTICS

Insulation resistance	1000MΩ（1000VDC)
Dielectric strength between open contacts	3000VAC,1min
Dielectric strength between contacts and coil	4000VAC,1min
Operate time	⩽30ms
Release time	⩽10ms
Shock resitsance(functional)	196m/s²
Shock Resistance(distructive)	490m/s²
Vibration resistance	10～55Hz 1.5mm DA
Humidity	5%～85%RH
Ambient temperature	-40℃～+85℃
Load terminal structure	M5 Screw terminal female
Unit Weight	Approx. 350g
Size	77.8mm×44.8mm×77.2mm

✧ ENVIRONMENTAL REQUIREMENTS

Environmental requirements	—40℃～+85℃
Humidity	5%～95%RH

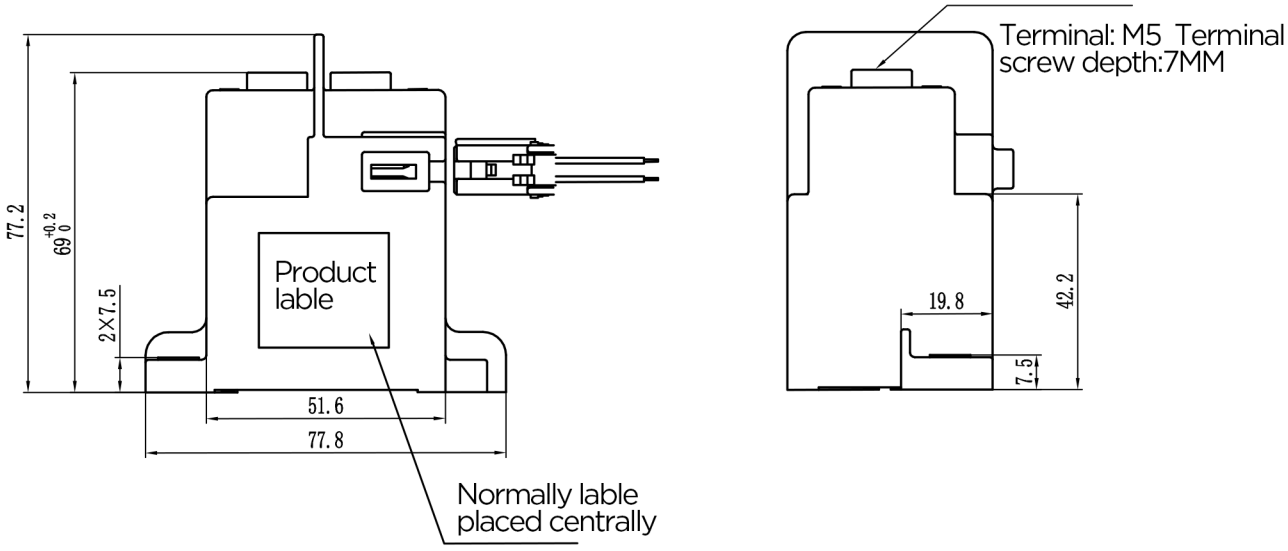
✧ COIL DATA

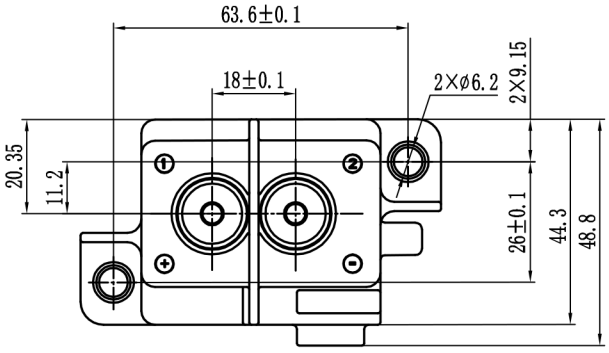
Rated voltage	12	24
Operated voltage	⩽9	⩽18
Release voltage	⩾1	⩾2
Coil power	6W	6W

✧ MODEL INSTRUCTION

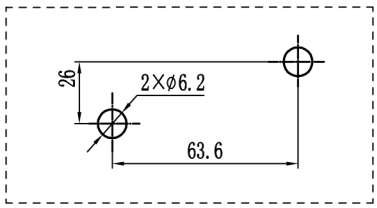
	BEVR	11	-100/	750	-X	-X	X	X	(XXX)
ZJBENY CONTACTOR									
Product No	Square								
Contact rating	100:100A								
Load voltage	450:450VDC 750:750VDC								
Coil voltage	12:12VDC 24:24VDC								
Contact arrangement	H:Form A								
Coil terminal	Lead wire+connector								
Load terminal	Screw terminal female								
Special code:	xxx :CUSTOMER SPECIAL REQUIREMENT No: standard								

✧ OUTLINE DIMENSIONS&WIRING DIAGRAM



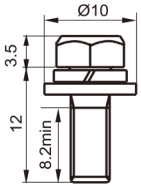


Mounting hole size

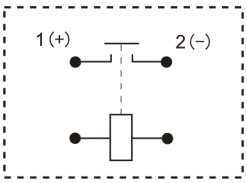


NOTICE: When size ⩽ 10mm, tolerance±0.3mm,when size 10-50mm, tolerance ± 0.5mm, when size >50mm, tolerance±0.8mm

Assembling Screws (Optional)



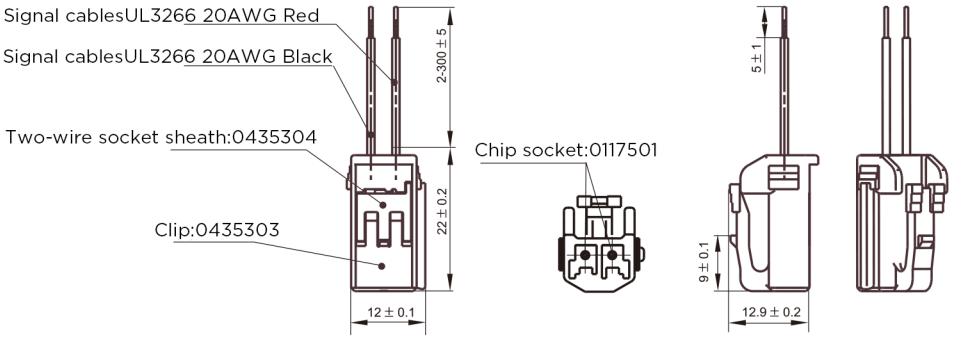
Terminal Arrangement



Note: The load side has polarity.
No polarity on the coil side.

Coil terminal

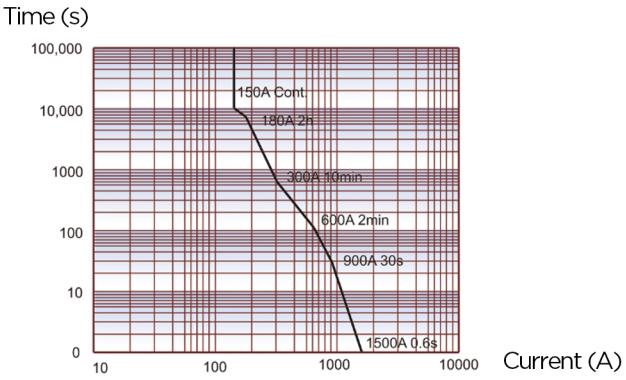
C: connector(Tianhai:0435308)



Note: Customers can self-configured connectors: style No:7283-1020

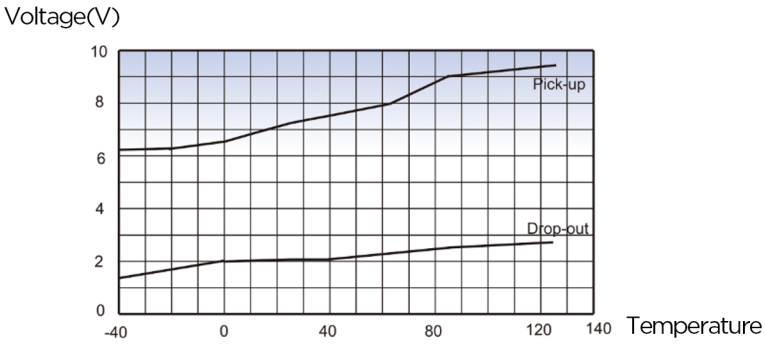
✧ CHARACTERISTIC CURVES

Endurance Capacity Curve



Note : measued under 85℃,cable cross-sectional area ⩾50mm²,Pls kindly note it is for reference only, do not refer this when you choose a fuse holder

Opreated/Release Voltage Change Graph



Note : Coil voltage 12V: pls kindy note it is for reference only (sample qty:n=3)

✧ NOTIFICATION

1.In case of loosening, please use washer when mount the contactor with M5 screw, and the torque within 3N.m to 4N.m, The screw tightening torque at terminals shall be within 3N.m to 4N.m. The torque beyond the range may cause damage.

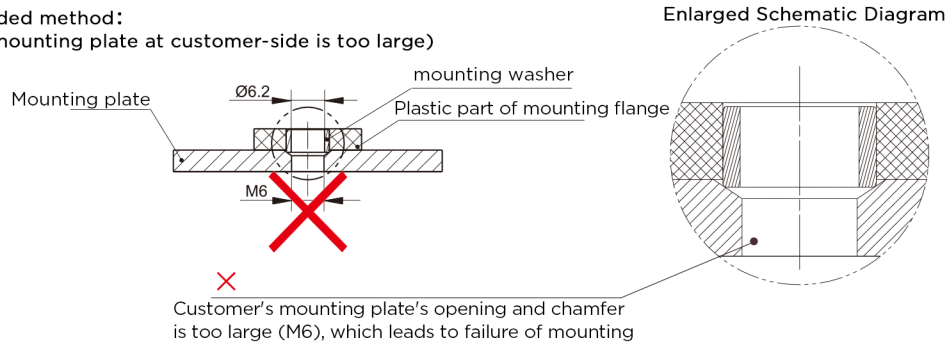
Mounting for load terminal			Torque Damage		
Mount Method	Torque Requirement	Torque Damage	Mount Method	Torque Requirement	Torque Damage
M5 Screw	3N·m~4N·m	7N·m	M5 Screw	3N·m~4N·m	16N·m

2.Be careful that oils and foreign matter do not stick to the main terminal part and please use the wire with min. cross section area 50mm2, otherwise the terminal parts may have abnormal heating.

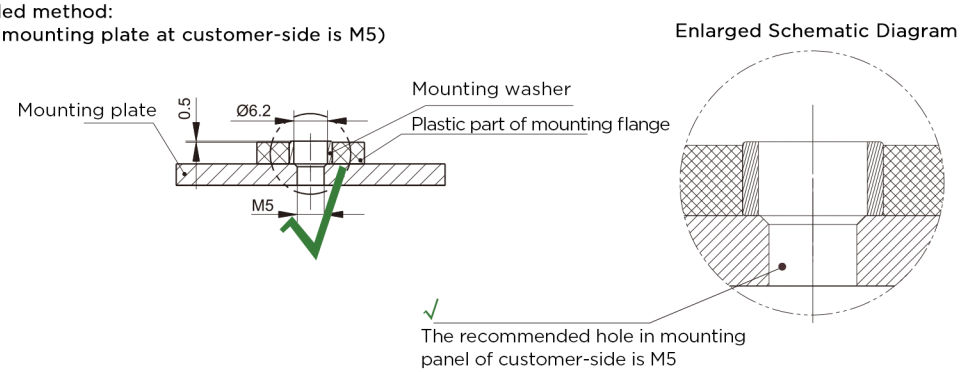
3.Recommended thickness of copper row:3mm, Otherwise the threads may slip or not fit tightly.

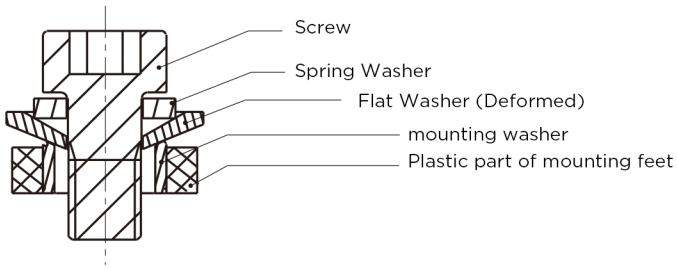
4.Cautions of mounting

Unrecommended method:
(The hole of mounting plate at customer-side is too large)



Recommended method:
(The hole in mounting plate at customer-side is M5)





When use M5 screw, the thickness and strength of the washer needs to be guaranteed or it may deform and burst the cover

Disclaimer

1.The specification is for reference only. ZJBENY has made every effort to make sure the accuracy of information. Specifications subject to change without notice.

2.We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact ZJBENY for the technical service. However, it is the user's responsibility to determine which product should be used only.