

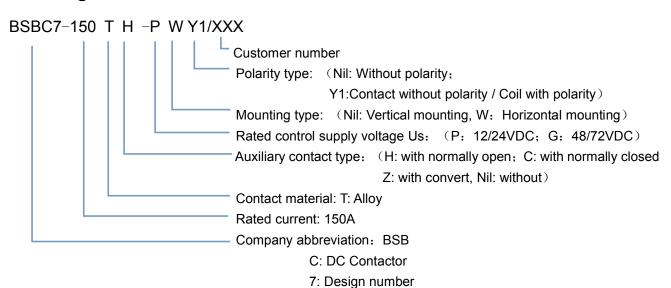
BSBC7 Series DC Contactor Specification

Customer	General Specification
Product Name	DC Contactor
	BSBC7-150T-P
	BSBC7-150TH-P
	BSBC7-150TC-P
	BSBC7-150TZ-P
	BSBC7-150T-PW
	BSBC7-150TH-PW
	BSBC7-150TC-PW
Part Number	BSBC7-150TZ-PW
Part Number	BSBC7-150T-GY1
	BSBC7-150TH-GY1
	BSBC7-150TC-GY1
	BSBC7-150TZ-GY1
	BSBC7-150T-GWY1
	BSBC7-150TH-GWY1
	BSBC7-150TC-GWY1
	BSBC7-150TZ-GWY1
Date	2022/04/01
Validity	2 Year
Version	2022V1.0

Feature

- •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 or wiring.
- •Good for environment: All components meet the latest ROHS environmental requirements.
- •Application: Ordinary, quick charging, auxiliary contactor. Can be used in EV, charging equipment, photovoltaic system, etc.
- •Approval: UL, CE, TUV

Ordering





Basic Parameter

Contact parameter			
	Rated operational	150A	
	current le	130A	
	Rated operational	12∼1000VDC	
	voltage Ue	12° 1000 V D C	
Ma	Min. load	1A12VDC	
Main contact	Main contact type	1SH (SPST NO DM)	
onta	Nominal resistance of		
act	main circuit	0.2 mΩ(@150A)	
	Main contact mounting	M8 external thread	
	Connecting torque	10∼12N·m	
	Max. switching current	1500A320VDC	
	(more than one cycle)	TOUGASZUVDC	
ი ≱	Max. current	30VDC 2A; 125VAC 3A	
Auxiliary contact	Min. current	8VDC 100mA	
¥ 2	Contact resistance	<0.15Ω	

Coil parameter			
Rated voltage Us	12/24VDC	48/72VDC	
Operating voltage range	8∼36 VDC	32∼95 VDC	
Pick up voltage	7∼8 VDC	28∼32 VDC	
Release voltage	5∼6 VDC	18∼22 VDC	
Coil power	holding: 2W	holding: 1.5W	
Inrush current	3A (0.1s) (@12V)	1.3A (0.1s)	
Holding current	0.17A@12V;	0.03A@48V;	
	0.085A@24V	0.02A@72V	
Pick up time (@Us)	≤45ms	≤45ms	
Release time (@Us)	≤10ms	≤10ms	
Bounce time (@Us)	≤5ms	≤5ms	

Note: The above parameters are normal temperature rating, if other parameters needed, can customize.

Life characteristics			
Mechanical Life			
Resistivity load life (L/R≤1ms)			
360A	50,000 cycles		
	(1ms)		

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.

Electrical characteristics		
Dielectric withstand voltage	AC3000V	
Insulation resistance	≥1000MΩ@1000VDC	
Nominal insulation voltage Ui	1000V	

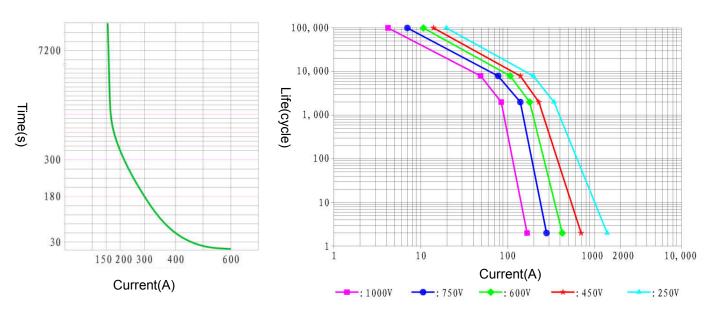
Environmental characteristics		
Shock	Stability test	196m/s² (20G)
	Strength test	490m/s² (50G)
Resistance to vibration		10∼2000Hz,20G
Operating	ambient	-40°C∼+85°C
temperature		
Operating ambient humidity		5%∼85% RH
IP Grade		IP67(inner space)
Altitude		≤4000m

Other		
Weight	425g, with auxiliary 430g	
The cross sectional area of	≥50mm²	
an external conductor		
Case mounting hole torque	2.5∼3.5 N·m	



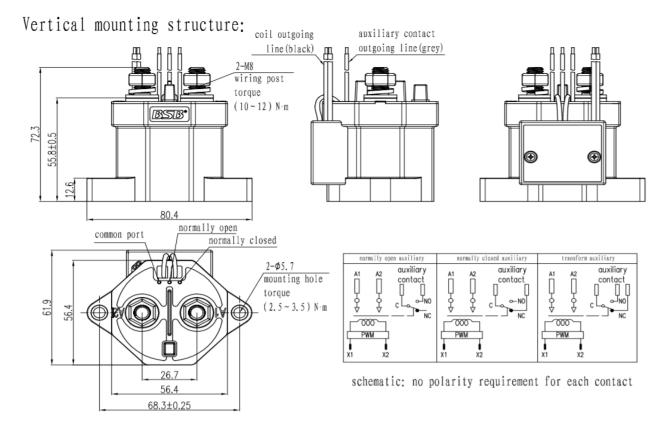
Short overload capacity curve

Cut-off life curve of resistive load

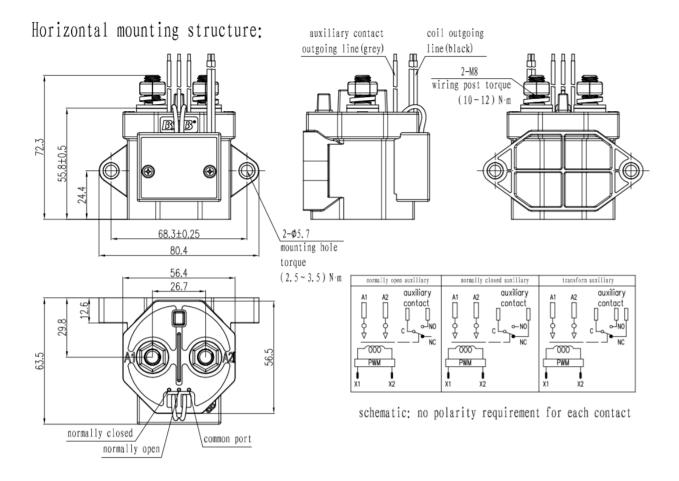


Note: Except for special note, the ambient temperature of electrical durability test is 23° C, and the on-break ratio is: 1s: 9s

Outline and wiring schematic diagram







Note: Control coil wire length 300±20mm

Product without tolerance, when ≤10mm, tolerance ±0.3mm

When dimension between $10\sim50$ mm, tolerance ±0.5 mm

When dimension≥50mm, tolerance ±0.8mm