

HERMETIC SEALED DC CONTACTOR (Bi-directional DC Contactor)

EVHB500H

(H: 1500V Class)

◎ **Application (응용분야)** : Electric Vehicle, Charging System, Battery Energy Storage System, Solar System, etc. Bi-directional switching systems and AC systems

◎ Magnet coil ratings (코일정격)

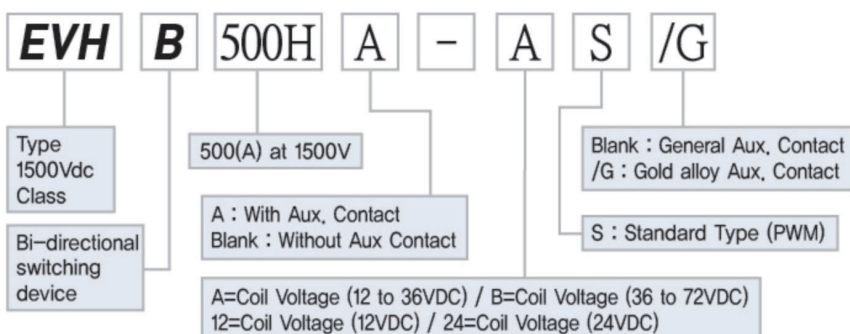
Item		Inrush Coil current 150ms (Max.)	Holding Coil current	Pick-up voltage (V) max.	Drop-out voltage (V) min.	Holding voltage (V) min.	Max. voltage (V)	Remark
Nominal voltage(V)								
12S	12V	3.0A	0.4A	9VDC	6VDC	7.5VDC	32VDC	PWM economizer
24S	24V	1.4A	0.2A	18VDC	9VDC	9.0VDC	48VDC	
AS	12 to 36V	3.1A	0.4 to 0.2A	9VDC	6VDC	7.5VDC	48VDC	

Notes : 1. Nominal current and coil resistance are measured at +20°C. 2. Differences of coil resistance are ±10%.
3. Performance characteristic coil temperature is measured at +20°C.

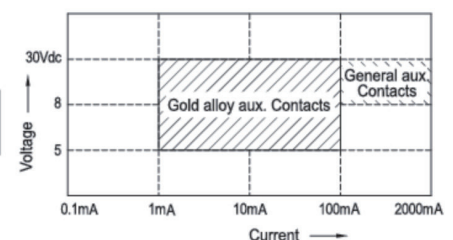
◎ Contact ratings (접점정격)

Item	Type	1 Pole Resistor load
		EVHB500H
Max. Continuous current (wire size 325mm ²)		500A
Max. switching current		1000VDC 1000A
		1500VDC 800A
		400VDC 2000A
Max. switching voltage		1500VDC
Contact Rating switching voltages		12 to 1500VDC
Voltage drop across contacts per 100A		30mV Max. (At 5VDC)
Min. permissible load		12VDC 0.5A
Description		S.P On/Off (a)
Contact Arrangement, auxiliary contacts		1Form A (SPST-NO.)
General Aux. Contact Current, Max.		2A 30VDC / 3A 125VAC
General Aux. Contact Current, Min.		100mA 8VDC
Gold alloy Aux. Contacts Max. (Low level circuit type)		0.1A 30VDC / 0.1A 30VAC
Gold alloy Aux. Contacts Min. (Low level circuit type)		1mA 5VDC / 1mA 5VAC

◎ Ordering information (주문방법)



Permissible load of Aux. contact





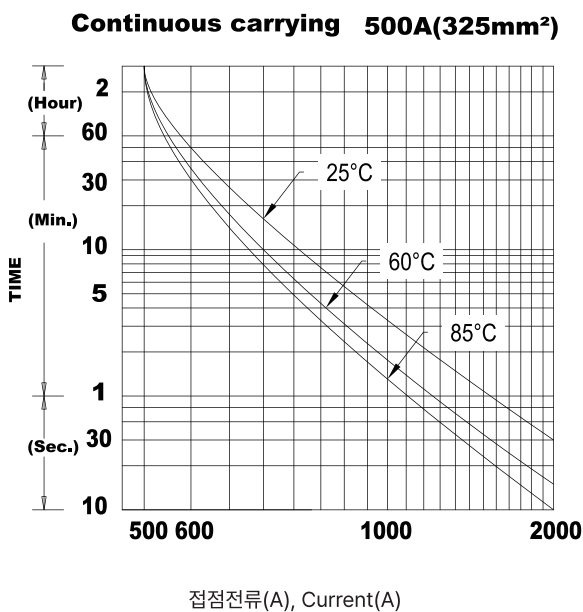
Characteristics (성능)

Expected life	Mechanical (Min.)		5×10 ⁵
	Electric (Min.) (Resistor)	1500VDC (+), (-) 150A	6×10 ³
		1500VDC (+), (-) 200A	2×10 ³
		1500VDC (+), (-) 500A	5×10
Initial insulation resistance			Min. 200MΩ 1000VDC
Initial breakdown voltage	Between open contacts		4500VAC 60 Sec. 5mA
	Between contacts & coil		4500VAC 60 Sec. 5mA
Operate time (at 20°C)			Max. 50ms
Release time (at 20°C)			Max. 10ms
Shock resistance	Functional		Min. 196 m/s ² {20G}
	Destructive		Min. 490 m/s ² {50G}
Vibration resistance	Functional		98 m/s ² {10G} 80 to 2000Hz
	Destructive		98 m/s ² {10G} 80 to 2000Hz
Conditions for operation, transport and storage	Ambient temperature		-40°C to +85°C
	Humidity		5 to 85% R.H.
Unit weight			1300g

Reference data (특성곡선)

온도상승곡선

- 통전시간의 최대치 Max. Current capacity
- Max. Continuous thermal current rating (amperes)



전기적 수명 곡선

(Estimated Switching Ratings)

