

HERMETIC SEALED DC CONTACTOR (Bi-directional DC Contactor)

EVHD500

(Double Switching Device)



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

Magnet coil ratings (코일정격)

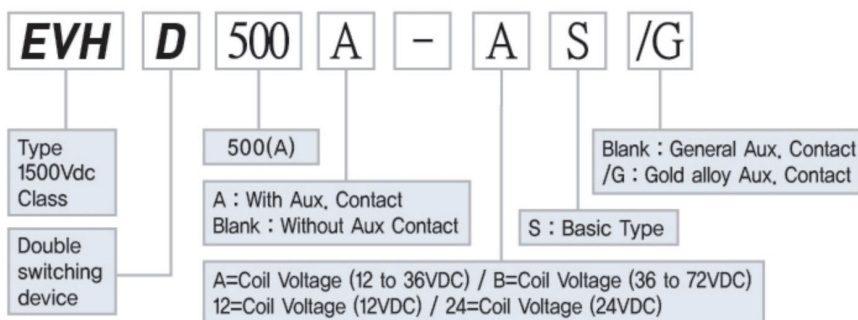
Nominal voltage(V)		Item	Inrush Coil current 150ms (Max.)	Holding Coil current	Pick-up voltage (V) max.	Drop-out voltage (V) min.	Holding voltage (V) min.	Max. voltage (V)
B	60		4.0A	0.2A	32VDC	18VDC	22VDC	60VDC
	48		3.8A	0.2A				
	36		3.0A	0.3A				
A	36		6.0A	0.4A	9VDC	6VDC	7.5VDC	36VDC
	24		6.0A	0.5A				
	12		6.0A	0.9A				
12			6.0A	0.9A	9VDC	6VDC	7.5VDC	18VDC
24			3.0A	0.45A	18VDC	12VDC	13.5VDC	32VDC

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.

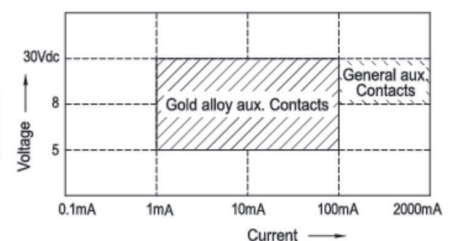
Contact ratings (접점정격)

Item	Type	2 Pole Resistor load	
		EVHD500	
Max. Continuous current (wire size 300mm ²)		500A	
Max. switching current		1000VDC 500A (Series)	UL Certification
		1500VDC 400A (Series)	
Max. switching voltages		1500VDC	
Contact Rating switching voltages		12 to 1500VDC/AC	
Voltage drop across contacts per 100A		30mV Max. (At 5VDC) / Pole	
Min. permissible load		12VDC 0.5A	
Description		D. 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



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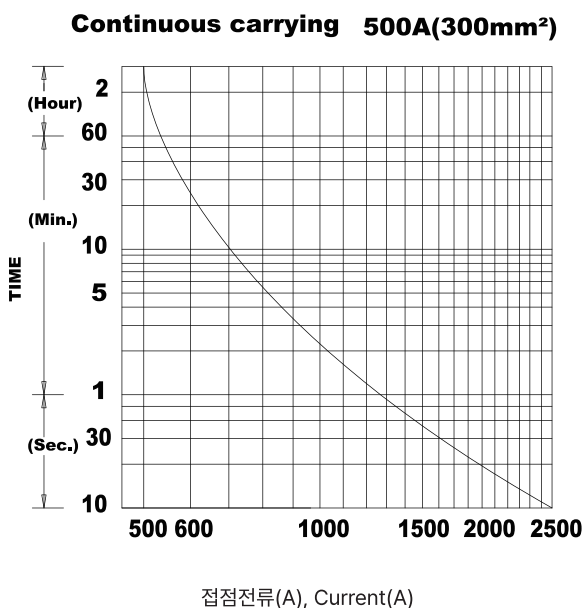
Characteristics (성능)

Expected life	Mechanical (Min.)		2×10^5
	Electric (Min.) (Resistor)	1000VDC (+),(-) 500A	2×10^3
		1500VDC (+),(-) 300A	6×10^3
		1500VDC (+),(-) 400A	1×10^3
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. 98 m/s ² {10G}
	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			2100g

Reference data (특성곡선)

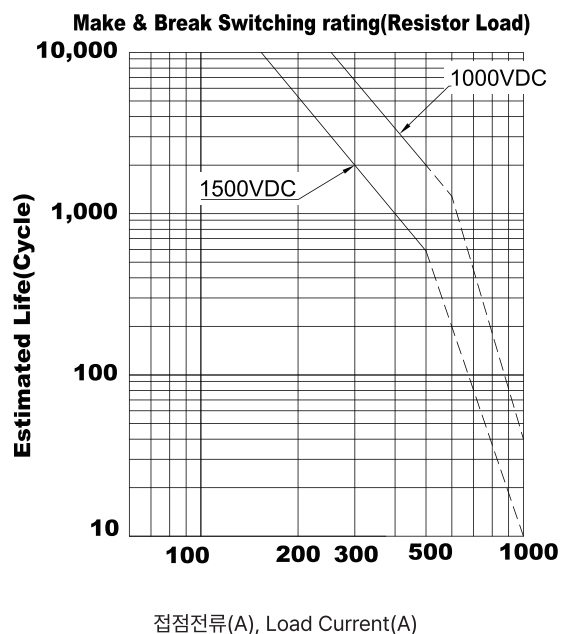
온도상승곡선

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



전기적 수명 곡선

(Estimated Switching Ratings)

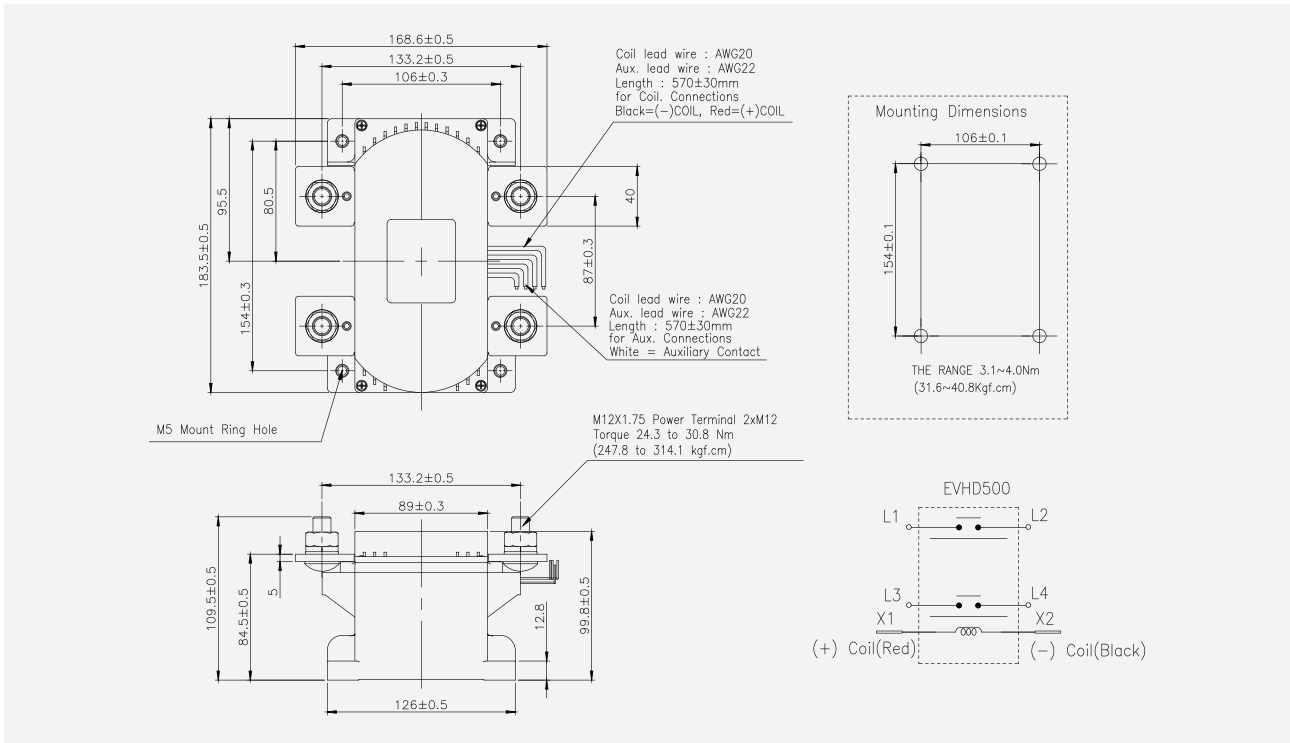




Dimension in mm (외형치수도)

Tolerance(공차) : 10mm 이하±0.3, 10~50mm ±0.6, 50mm 이상±1.0

(Basic Type)



(Seperation Type)

