

DC HIGH VOLTAGE EV RELAY

EVR600

Application (응용분야) : Electric Vehicle, Charging System, Battery Energy Storage System
Solar System, Golf Car, Fuel Cell Vehicle, etc.

Magnet coil ratings (코일정격)

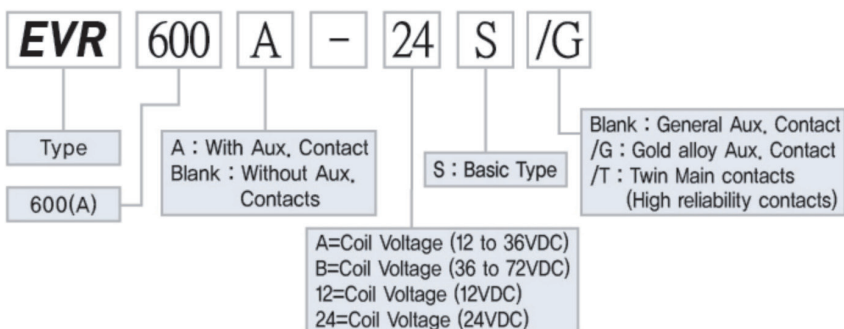
Nominal voltage(V)	Item	Inrush Coil current 100ms (Max.)	Holding Coil current	Pick-up voltage (V) max.	Drop-out voltage (V) min.	Holding voltage (V) min.	Max. voltage (V)
B	72	1.1A	0.04A	32VDC	18VDC	22VDC	95VDC
	60	1.0A	0.06A				
	36	0.9A	0.08A				
A	36	3.6A	0.11A	9VDC	6VDC	7.5VDC	36VDC
	24	3.2A	0.16A				
	12	3.2A	0.32A				
	12	1.2A	0.32A	9VDC	6VDC	7.5VDC	18VDC
	24	0.6A	0.16A	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.

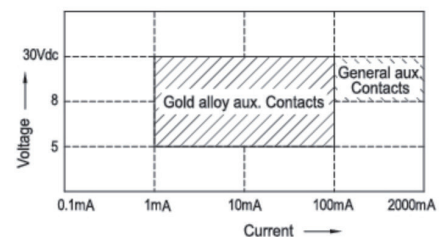
Contact ratings (접점정격)

Item	Type	1 Pole Resistor load
		EVR600
Max. Continuous current (wire size 185mm ² ×2)		600A
Max. switching current		600A
Max. switching voltages		900VDC
Contact Rating switching voltages		12 to 900VDC
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





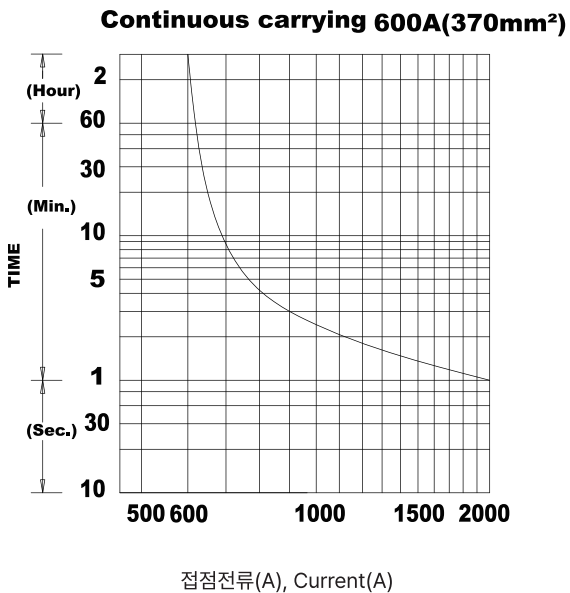
⊙ Characteristics (성능)

Expected life	Mechanical (Min.)		5×10 ⁵
	Electric (Min.) (Resistor)	450VDC 600A	6×10 ³
		250VDC 600A	1×10 ⁵
Initial insulation resistance			Min. 100MΩ 500VDC
Initial breakdown voltage	Between open contacts		3500VAC 60 Sec. 5mA
	Between contacts & coil		3500VAC 60 Sec. 5mA
Operate time (at 20°C)			Max. 30ms
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		196 m/s ² {20G} 80 to 2000Hz
	Destructive		196 m/s ² {20G} 80 to 2000Hz
Conditions for operation transport and storage	Ambient temperature		-40°C to +85°C
	Humidity		5 to 85% R.H.
Unit weight			920g

⊙ Reference data (특성곡선)

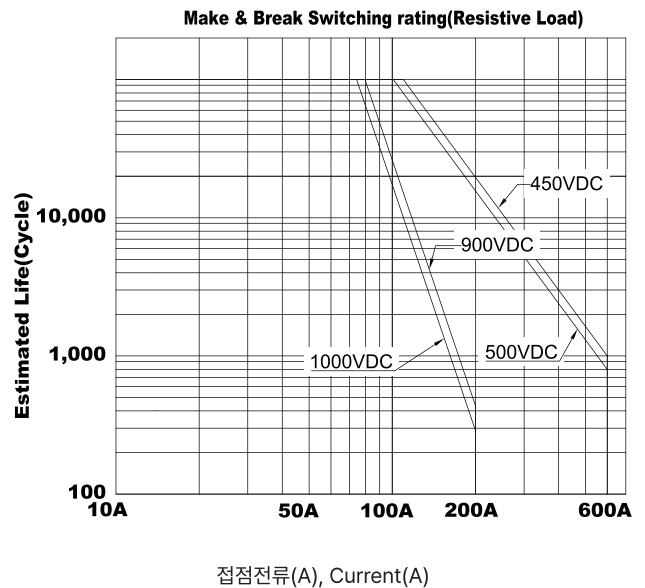
온도상승곡선

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



전기적 수명 곡선

(Estimated Switching Ratings)



DC HIGH VOLTAGE EV RELAY

EVR600



Dimension in mm (외형치수도)

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

