



▶ 코일정격 (Magnet coil ratings)

Nominal voltage(V)	Item	Inrush Coil current 100ms (Max.)	Holding Coil current (mA)	Pick-up voltage (V)max.	Drop-out voltage (V)min.	Holding voltage (V)min.	Max. voltage (V)max.
B	72	1.3A	0.07~0.045A	32VDC	18VDC	22VDC	95VDC
	60						
	48						
A	24	3.8A	0.13A	9VDC	6VDC	7.5VDC	36VDC
	12		0.27A				
12		1.2A	0.27A	8.4VDC	6VDC	7.5VDC	18VDC
24		0.55A	0.13A	17.5VDC	12VDC	13.5VDC	30VDC

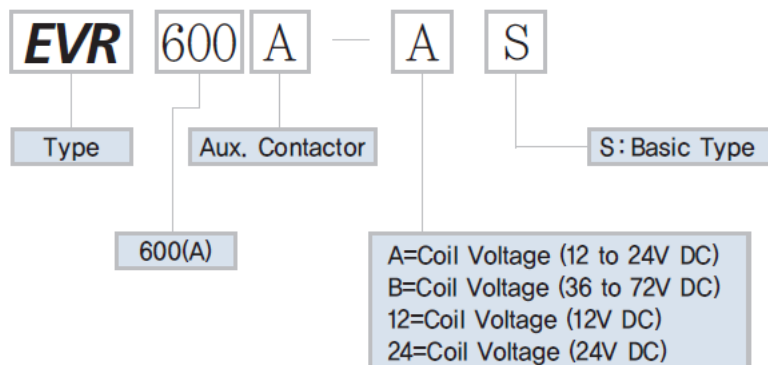
Notes : 1. Nominal current and coil resistance are measured at +20°C.
 2. Differences of coil resistance are $\pm 10\%$.
 3. Performance characteristic coil temperature is measured at +20°C.

▶ 접점정격 (Contact ratings)

(450VDC기준)

Item	Type	1Pole Resistive load (L/R ≤ 1 ms)
		EVR 600
Max. Continuous current (wire size 185mm ² ×2)		600A
Max. switching current		600A
Max. switching voltages		900VDC
Contact rating switching voltages		450VDC
Voltage drop across contacts per 100A		30mV max.
Min. permissible load		12VDC 0.5A
Description		S,P On/Off (a)
Contact Arrangement, auxiliary contacts		1Form A (SPST-NO.)
Aux. Contact Current, Max.		2A 30VDC / 3A 125VAC
Aux. Contact Current, Min.		100mA 8VDC

▶ 주문방법 (Ordering information)



HIGH VOLTAGE DC RELAY

EVR-600



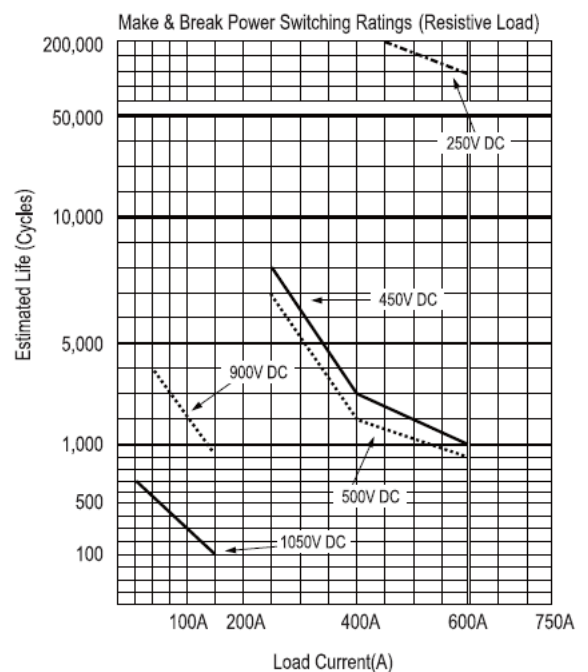
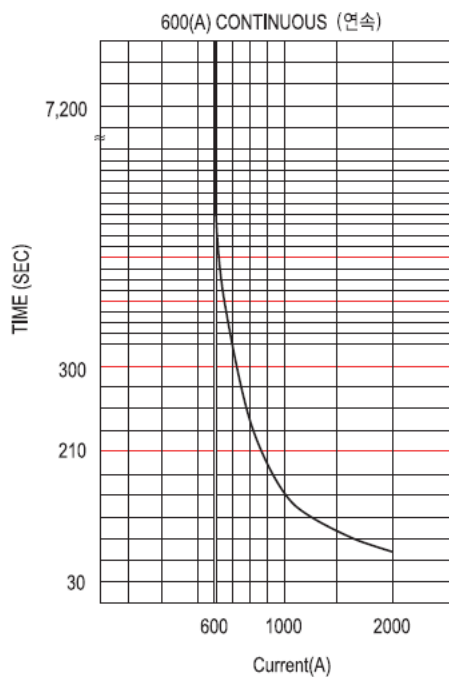
▶ 성능 (Characteristics)

Expected life	Mechanical (Min.)		10 ⁶
	Electric (L/R≤1ms)	450V DC 600A	10 ³
		250V DC 600A	10 ⁵
Initial insulation resistance			Min, 100M Ω 500V DC
Initial breakdown voltage	Between open contacts		3500V AC 1Min, 5mA
	Between contacts & coil		3500V AC 1Min, 5mA
Operate time (at 20℃)			Max, 20ms
Release time (at 20℃)			Max, 10ms
Shock resistance	Functional		Min 490 % {50G}
	Destructive		Min 147 % {20G}
Vibration resistance	Functional		100 % {20G} 80 to 2000Hz
	Destructive		100 % {20G} 80 to 2000Hz
Conditions for operation transport and storage	Ambient temperature		-40℃ to +85℃
	Humidity		5 to 85% R.H.
Unit weight			920g

▶ 특성곡선 (Reference data)

● 온도상승곡선

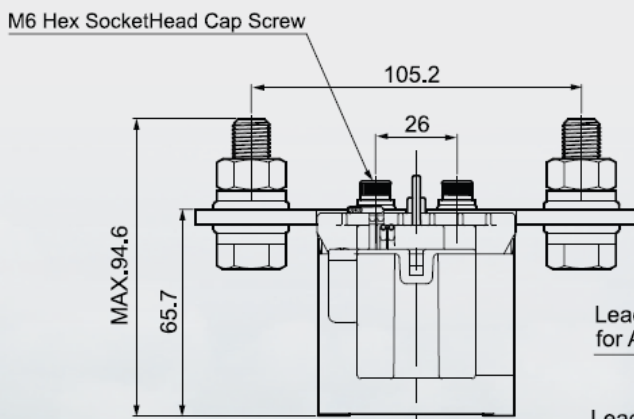
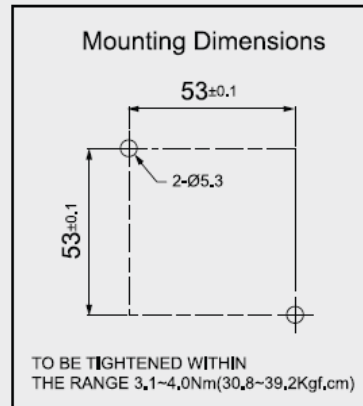
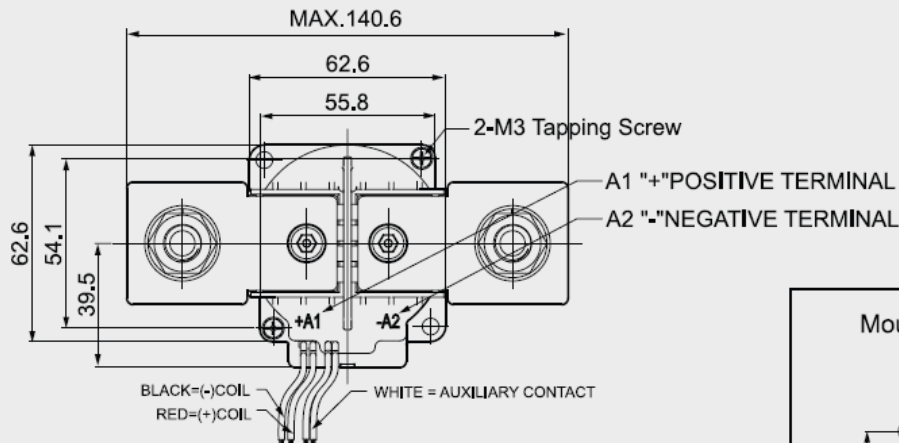
- 통전시간의 최대치 Max, Current capacity
Max, Continuous thermal current rating (amperes)



EVR-600



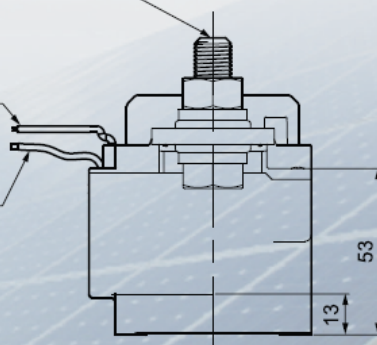
▶ 외형치수도 (Dimension in mm)



M12X40 MAIN TERMINALS
TO BE TIGHTENED WITHIN
THE RANGE 24.3~30.8Nm(238~302Kgf.cm)

Lead Wire (18AWG)
for Aux. Connections

Lead Wire (18AWG)
for Coil Connections



Hybrid, Electric & Fuel cell vehicles

DC HIGH VOLTAGE EV RELAY

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