

HIGH VOLTAGE DC RELAY

EVR-50



▶ 코일정격 (Magnet coil ratings)

Nominal voltage(V)	Item	Nominal Coil current (mA)	Coil resistance (Ω)	Pick-up voltage (V)max.	Drop-out voltage (V)min.	Max. voltage (V)max.	Coil power(W) dissipation
DC	110	29	3,750	82.5	11	143	3 ~ 3.5
	72	45	1,600	54	7.2	93.6	
	60	54	1,120	45	6	78	
	48	66	730	36	4.8	62.4	
	24	133	180	18	2.4	31.2	
	12	267	45	9	1.2	15.6	
	6	545	11	4.5	0.6	7.8	

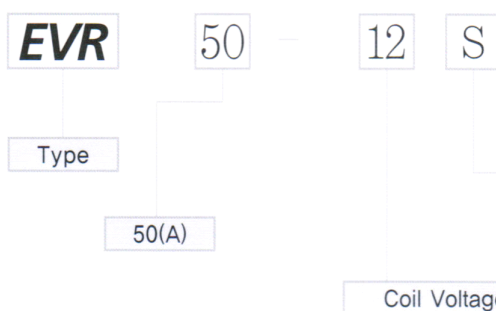
Notes : 1. Nominal current and coil resistance are measured at +20°C.
 2. Differences of coil resistance are $\pm 10\%$.
 3. Performance characteristic coil temperature is measured at +20°C.

▶ 접점정격 (Contact ratings)

(450VDC기준)

Item	Type	1Pole Resistive load ($L/R \leq 1ms$)
		EVR50
Max. switching current (wire size 10mm ²)		50A
Max. switching voltages		900VDC
Contact rating switching voltages		450VDC
Max. contact performance (wire size 10mm ²)		150A 30Sec.
		250A 10Sec.
Voltage drop across contacts per 10A		0.3V max.
Min. permissible load		12V DC 0.5A
Description		S,P On/Off, (1a)

▶ 주문방법 (Ordering information)



Coil surge suppressor	
S	Basic type
Z	Transient voltage suppressor
D	Interior diodes
DR	Diodes & resisters

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EVR-50-12S

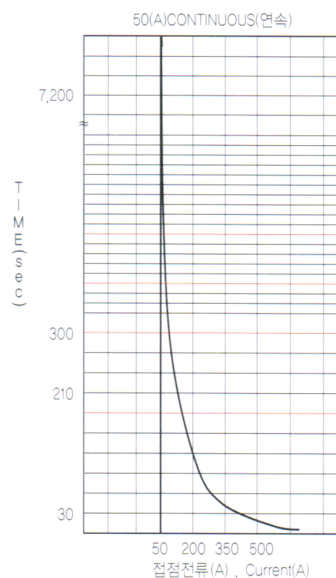
▶ 성능 (Characteristics)

Initial insulation resistance			Min. 100M Ω 500V DC
Expected life	Mechanical(Min.)		10 ⁶
	Electric (L/R $\leq$ 1ms)	450V DC 50A	10 ⁵
		250V DC 50A	2 $\times$ 10 ⁵
Initial breakdown voltage	Between open contacts		2500V AC 1Min. 10mA
	Between contacts & coil		2500V AC 1Min. 10mA
Operate time(at 20 $^{\circ}$ C)			Max. 30ms
Release time(at 20 $^{\circ}$ C)			Max. 15ms
Shock resistance	Functional		Min 196 % $\{20G\}$, (10 μ s)
	Destructive		Min 490 % $\{50G\}$
Vibration resistance	Functional		43 % $\{4.4G\}$ 10 to 200Hz, (10 μ s)
	Destructive		43 % $\{4.4G\}$ 10 to 200Hz
Conditions for operation transport and storage	Ambient temperature		-40 $^{\circ}$ C to +85 $^{\circ}$ C
	Humidity		5 to 85% R.H.
Unit weight			105g

▶ 특성곡선 (Reference data)

● 온도상승곡선

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



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▶ 외형치수도 (Dimension in mm)

