

DC HIGH VOLTAGE EV RELAY

EVR-10



EVR10

▶ 코일정격 (Magnet coil ratings)

Nominal voltage(V)	Item	Nominal current (mA)	Coil resistance (Ω)	Pick-up voltage (V)max.	Drop-out voltage (V)min.	Max. voltage (V)max.	Coil power(W) dissipation
		60Hz					
AC	6	226.5	9.5	80% Min.	30% max.	130%	1.5 ~ 1.8VA (60Hz)
	12	112	35				
	24	56	140				
	50	28	600				
	100 / 110	11.2 / 12.4	3,030				
	200 / 220	8.8 / 9.7	10,800				
DC	6	200	30	75% Min.	10% max.	130%	1.1 ~ 1.3 Approx
	12	100	120				
	28	43	650				
	24	50	480				
	36	34	1,080				
	48	25	1,920				
	60	20	3,000				
	72	17	4,320				
	100 / 110	11 / 12	9,350				

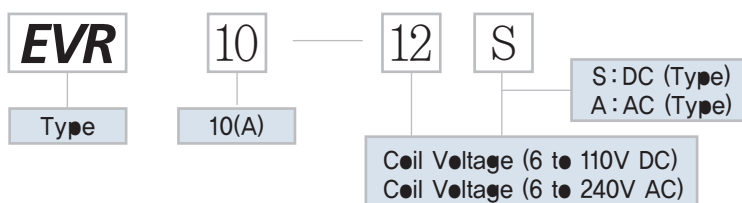
- Notes : 1. Nominal current and coil resistance are measured at +20°C
 2. Differences of coil resistance are ±10%.
 3. Performance characteristic coil temperature is measured at +20°C

▶ 접점정격 (Contact ratings)

(450VDC기준)

Item	Type	1Pole Resistive load (L/R≤1ms)
		EVR10
Max. switching current (wire size 2.0mm ²)		10A
Max. switching capacity		1200VDC 2A
Contact rating switching voltages		450VDC
		900VDC 10A(Resistive load)(+ polarity Main Terminal A1 and A2) each NO contact connected in series
Max. contact performance (wire size 2.0mm ²)		30A 120Sec.
		20A 180Sec.
Voltage drop across contacts per 10A		0.1V max.
Min, permissible load		12V DC 0.1A
Description		S.P.S.T On/Off, (1a)

▶ 주문방법 (Ordering information)



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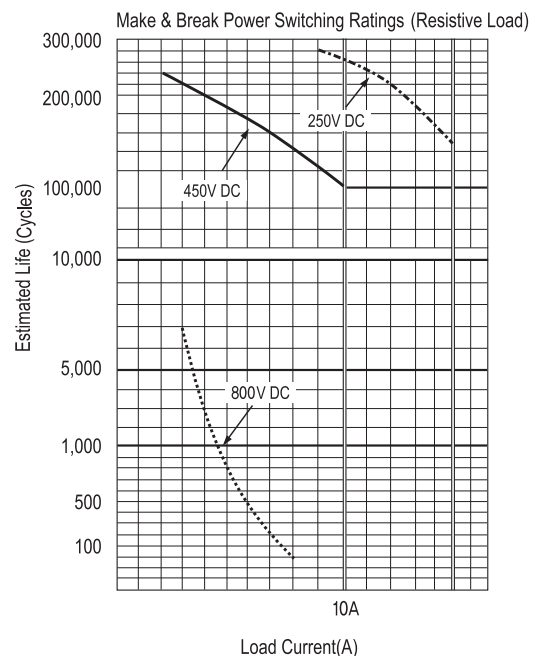
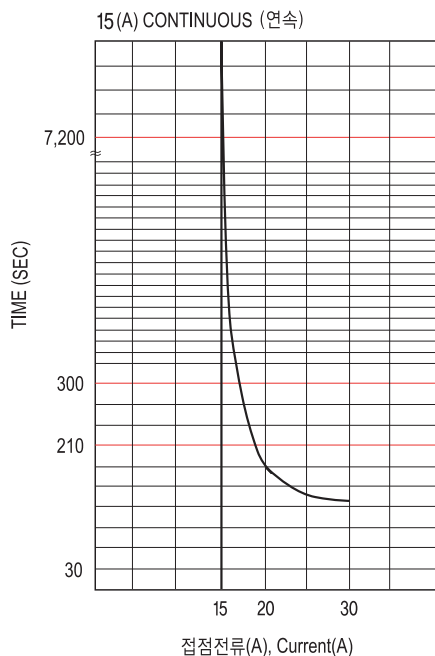


▶ 성능 (Characteristics)

Initial insulation resistance		Min. 100M Ω 500V DC
Expected life	Mechanical (Min.)	
	Electric (L/R \leq 1ms)	450V DC 10A
		250V DC 15A
Initial breakdown voltage	Between open contacts	2500V AC 1Min. 10mA
	Between contacts & coil	2500V AC 1Min. 10mA
Operate time (at 20 $^{\circ}$ C)		Max. 20ms
Release time (at 20 $^{\circ}$ C)		Max. 5ms
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		65g

▶ 특성곡선 (Reference data)

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



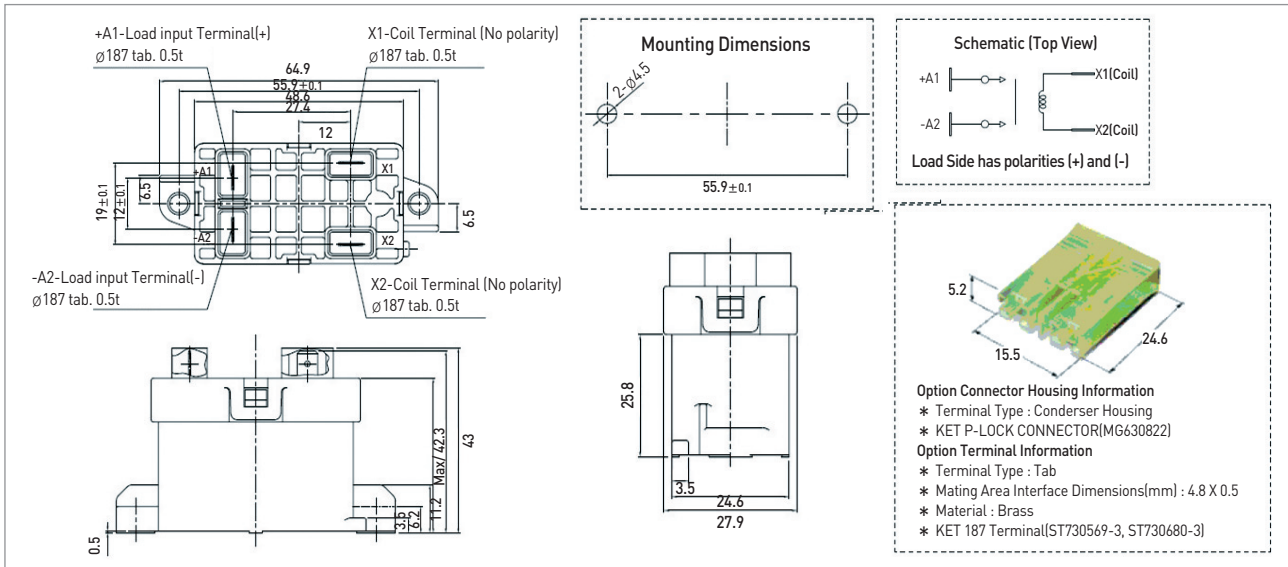
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외형치수도 (Dimension in mm)



회로 (Circuit)

