

DC HIGH VOLTAGE EV RELAY

EVR10



EVR10

▶ **응용분야 (Application)** : Pre-Charge Relay, Electric Vehicle, Charging System, Solar System, etc.

▶ **코일정격 (Magnet coil ratings)**

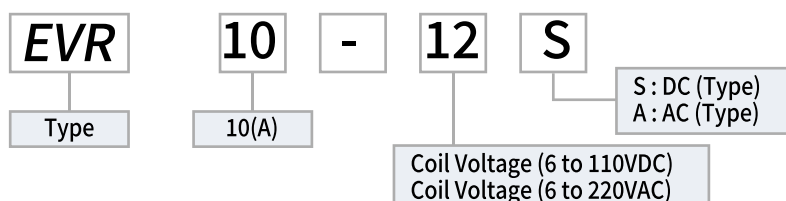
Nominal voltage(V)	Item	Nominal current (mA) 60Hz	Coil resistance (Ω)	Pick-up voltage (V)max.	Drop-out voltage (V)min.	Max. voltage (V)	Coil power(W) dissipation
AC	6	226.5	9.5	80% Min.	30% Max.	130%	1.5~1.8VA (60Hz)
	12	112	35				
	24	56	140				
	50	28	600				
	100/110	11.2/12.4	3,030				
	200/220	8.8/9.7	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)**

Item	Type	1Pole Resistor load
		EVR10
Max. switching current (wire size 2.0mm ²)		10A
Max. switching capacity		1200VDC 2A
Contact rating switching voltages		12~1200VDC
		900VDC 10A(Resistor load)(+ polarity Main Terminal A1 and A2) each NO contact connected in series
C-R Load (Pre-Charge)		550V 10A 150,000Ops
Max. contact performance (wire size 2.0mm ²)		30A 120Sec.
		20A 180Sec.
Voltage drop across contacts per 10A		0.3V Max. (At 5VDC)
Min, permissible load		12VDC 0.1A
Description		S.P.S.T On/Off, (1a)

▶ **주문방법 (Ordering information)**



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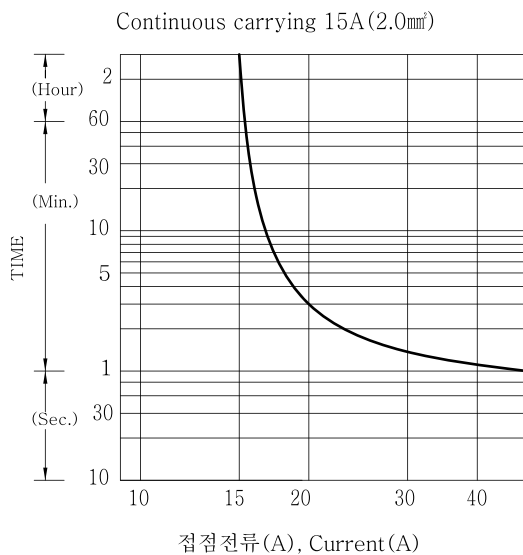
▶ 성능 (Characteristics)

Initial insulation resistance		Min. 100mΩ 500VDC
Expected life	Mechanical (Min.)	2 × 10 ⁶
	Electric (Min.) (Resistor)	450VDC 10A
		250VDC 15A
Initial breakdown voltage	Between open contacts	2500VAC 60 Sec. 10mA
	Between contacts & coil	2500VAC 60 Sec. 10mA
Operate time (at 20°C)		Max. 20ms
Release time (at 20°C)		Max. 5ms
Shock resistance	Functional	Min 196 m/s ² {20G}, (10μs)
	Destructive	Min 490 m/s ² {50G}
Vibration resistance	Functional	43 m/s ² {4.4G} 10 to 200Hz, (10μs)
	Destructive	43 m/s ² {4.4G} 10 to 200Hz
Conditions for operation transport and storage	Ambient temperature	-40°C to +85°C
	Humidity	5 to 85% R.H.
Unit weight		65g

▶ 특성곡선 (Reference data)

● 온도상승곡선

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



● 전기적 수명 곡선

(Estimated Switching Ratings)

