

# TRIP RELAYS (II)

Model	RJ-8R	RJ-8XR	RJ-4XR4
Applications	Intended for tripping applications where high quality requirements in operating time (with models even tripping in less than 3 ms) and breaking capacity are needed, that is the case of tripping HV and MV circuit breakers.		
Construction characteristics			
Contacts no.	8 Changeover		4 Changeover + 4 Fast Singles-Inversors without break power
Connections			
Options	With OP options • LED included • Diode in parallel with the coil included		
Weight (g)	500		335
Dimensions (mm)	82,5 x 50,4 x 72 (J short type)		42,5 x 50,4 x 82,5 (F short Type)
Coil characteristics			
Standard voltages <sup>(1)</sup>	24, 48, 110, 125, 220, 250 <sup>(4)</sup> Vdc/110, 127, 230 Vac (50-60 Hz)	24, 48, 110, 125, 220, 250 <sup>(4)</sup> Vdc	110, 125, 220, 250 <sup>(4)</sup> Vdc
Voltage range	+10% -20% U <sub>N</sub>		+15% -20% U <sub>N</sub>
Pick-up voltage	See pick-up/release voltage-temperature curves		
Release voltage	See pick-up/release voltage-temperature curves		
Consumptions	In permanence (U <sub>N</sub> )	1,4 W	6,5 W
	Peak • ≤96 Vdc	0,8 A / 20 ms	2,5 A / 20 ms
	Peak • >96 Vdc	0,3 A / 20 ms	0,8 A / 20 ms
Operating time			
Pick-up time	<8 ms Vdc (<10 ms Vac) (Range 24 Vdc <10 ms)	<6,5 ms	Contacts 1-4: <3 ms Contacts 5-8: <20 ms
Drop-out time	Vdc: <40 ms Vac: <50 ms	Vdc: <40 ms	Contacts 1-4: <25 ms Contacts 5-8: <50 ms
Contacts			
Contact material	AgNi		Contacts 1-4: AgNi 10 Contacts 5-8: Ag1000
Contacts resistance <sup>(2)</sup>	≤30 mΩ		
Distance between contacts	1,2 mm		Contacts 5-8: 1,2 mm
Distance between contacts	10 A		Contacts 5-8: 15 A Contacts 1-4: 8 A
Instantaneous current	30 A during 1 s / 80 A during 200 ms / 200 A during 10 ms		
Max. making capacity	40 A / 0,5 s / 110 Vdc		
Breaking capacity	See breaking capacity curves (Contact configuration type B)		
Max. breaking capacity	See value for 50,000 operations		
Max. switching voltage	250 Vdc / 400 Vac		
Performance data			
Mechanical endurance	10 <sup>7</sup> operations		
Operating temperature	-25°C +70°C		
Storage temperature	-30°C +70°C		
Max. operating humidity	93% / +40°C		
Operating altitude <sup>(3)</sup>	<2000 m		

<sup>(1)</sup> Other voltage upon request  
<sup>(2)</sup> Guarantee data for relays just manufactured

<sup>(3)</sup> Ask for higher altitudes  
<sup>(4)</sup> Voltage not recognized by UL