

# 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.		
High burden configuration	See page 15 for technical details	See page 15 for technical details	not available
<b>Construction characteristics</b>			
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)
<b>Coil characteristics</b>			
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 / Release voltage	See pick-up/release voltage-temperature curves		
Consumptions	1,4 W		6,5 W
	In permanence (U <sub>N</sub> )		
	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
<b>Operating time</b>			
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
<b>Contacts</b>			
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		
U <sub>max</sub> opened contact	250 Vdc / 400 Vac		
<b>Performance data</b>			
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