

# INSTANTANEOUS RELAYS WITH SEISMIC CHARACTERISTICS

Model	RD-2SY	RF-4SY	RJ-8SY
Applications	Frequent vibration and shock applications, as railway sector, or because of safety requirements as nuclear power plants.		
Construction characteristics			
Contacts no.	2 Changeover	4 Changeover	8 Changeover
Connections			
Options	With OP options	With OP options / Push-to-test button included	
Weight (g)	125	250	500
Dimensions (mm)	22,5 x 50,4 x 72	42,5 x 50,4 x 72 (F short Type)	82,5 x 50,4 x 72 (J short Type)
Coil characteristics			
Standard voltages <sup>(1)</sup>	24, 48, 72, 110, 125, 220 Vdc 24, 48, 63,5, 110, 127, 230, 400 <sup>(4)</sup> Vac (50-60 Hz)		
Voltage range	+25% -30% 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> )	2,6 W; 3,3 VA	3,9 W; 6,6 VA	6 W; 11 VA
Operating time			
Pick-up time	< 20 ms		
Drop-out time	Vdc: <10 ms / Vac: <50 ms / With LED	Vdc: <15 ms / Vac: <50 ms / With LED	
Contacts			
Contact material	AgNi		
Contacts resistance <sup>(2)</sup>	≤30 mΩ / ≤15 mΩ (FF Range)		
Distance between contacts	1,2 mm		
Permanent current	10 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	-40°C +70°C		
Storage temperature	-40°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