Latching Relays

Features

Magnet latching relay 1 coil or 2 coils are available High sensitivity and reliability Well anti-shock and anti-vibration Heavy contact load (100A)



Ordering information

Ordering information	
FRL7 A - 1 DC12V	
1 Relay model	4 Rated voltage
2 Contact arrangement: A: 1 Form A; B: 1 Form B	Note: RoHS : RoHS compliant relay
3 Sort: 1: 1 coil latching; 2: 2 coils latching	RoHS-I: AgNi contact
	RoHS-N: AgSnO₂ contact

Coil rating

Rated voltage	Co resist Ω+/-	ance	Switching voltage	Operate voltage range	Pulse magnitude	Power consumption	Operate time	Release time
(V)	1 Coil	2 Coils	(V DC)	(V DC)	(ms)	(W)	(ms)	(ms)
6 12 24	16 64 260	2 x 8 2 x 32 2 x 130	<4.8 <9.6 <19.2	4.9 ~ 10 9.8 ~ 20 19.7 ~ 40	<u>≥</u> 36	1 coil - 2.25 2 coils - 4.5	<12	<6

CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay. 2. Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Characteristics

Contact arrangement		SPST (1 Form A-NO or 1 Form B-NC)		
Contact material		Silver alloy		
Contact resistance		$30 \text{m}\Omega$ Max.		
Contact rating (resistive)		100A 240VAC		
Switching power		23,000VAC (CosØ1); 2,300VAC (CosØ0.4)		
Switching voltage		400VAC Max.		
Switching current		100A		
Insulation resistance		1,000MΩ Min. (500VDC)		
Dielectric strength		2,000VAC (50Hz/min) Between open contacts		
		4,000VAC (50Hz/min) Between coil and contact		
Surge voltage		12,000V		
Shock resistance		Functional: 100m/s ²		
		Destructive: 1,000m/s ²		
Vibration resistance		1.5mm Double amplitude 10-55Hz		
Ambient temperature		-25°C to +70°C		
Humidity		85% RH, 40°C		
Operation life	Mechanical	10 ⁶		
	Electrical	10 ⁴		
Weight		82g Approx.		

⁽Specifications are subject to change without notices.)

El.italia serie FW-FRL7



