Latching Relays

Features

1 coil magnet latching relay available Small size and light weight Switching capacity up to 50A Low coil power consumption Strong anti-shock, anti vibration, high reliability and long life



c us: E139468

Ordering information

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FRL1THB C - S 1 L1 DC12	<u>2V</u>	
1 Relay model 2 Contact arrangement: A: 1 Form A; B: 1 3 Construction: E: Dust cover; S: Wash tig 4 Termination: 1: Snap outside		5 Rated voltage Note: AgSnO ₂ contact

Coil rating 1 coil latching

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Rated voltage	Coil resistance	Must operate voltage	Operating voltage range	Plus magnitude	Power consumption (W)	Operate time	Release time
(V DC)	Ω+/-10%	% of rated voltage		(ms)	Approx.	(ms)	(ms)
5 12 24 48	16.7 96 384 1536	80 Max.	120 Max.	<u>></u> 100	1.5	<u><</u> 15	<u><</u> 15

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

Characteriotics			
Contact arrangement	SPST (1 Form A or 1 Form B); SPDT (1 Form C)		
Contact material	Silver alloy		
Contact resistance (initial	20mΩ Max. (Measured at 1A 24VDC)		
Contact rating (resistive)	Resistive load : 50A/277VAC (5 x 10 ⁴)		
	1C: 40A/277VAC (3 x 10 ⁴)		
	Incandescent lamp: 5,000W 240VAC (3 x 10 ⁵)		
	Electronic ballast : 16A/280VAC (6 x 10°)		
	Motor load : 5HP 277VAC (3 x 10 ⁴)		
Switching power	12,500VA / 1,500W Max.		
Switching voltage	AC 300V / DC 110V Max.		
Switching current	50A Max.		
Insulation resistance	1,000MΩ Min. (500VDC)		
Dielectric strength	1,500VAC (50Hz/min) Between open contacts		
	2,500VAC (50Hz/min) Between coil and contact (Special request: 4,000VAC)		
Shock resistance	200m/s ² 11ms		
Vibration resistance	1.5mm Double amplitude 10-55Hz		
Terminals strength	10N		
Solderability	235°C ±2°C 3s ±0.5s		
Ambient temperature	-40°C to +85°C		
Humidity	85% RH, 40°C		
Operation life Mechan	ical 10 ⁶		
Electric	al (Please refer to contact rating)		
Weight	28g Approx.		

(Specifications are subject to change without notices.)

EL.ITALIA SRL

El.italia serie FW-FRL1THB



