Power Relays

Features

Miniature heavy duty relay (12.3mm height) 10A switching capabilities Dielectric strength 5,000Vrms Isolation spacing greater than 8mm Dust cover or wash tight type



c us: E141516

Ordering information

FRM10LH -	1C	S	1	J	DC12V	G
1	2	3	4	5	6	7

1 Relay model

2 Contact arrangement: 1A: 1 Form A; 1C: 1 Form C 3 Construction: NIL: Dust cover; S: Wash tight type

4 Version: 1: Terminal space 3.2mm;

2: Terminal space 5mm (for SPST only) 5 Termination: NIL: Standard type;

K: Terminal spacing 3.2mm & double contact pin (for 1 pole)

6 Rated voltage

7 Contact material: NIL: AgSnO2; I: AgNi; G : Gold flash

Note: RoHS : RoHS compliant relay;

Coil rating

Rated voltage		oil tance 10%	cur	ted rent ıA)	Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W)	Operate time	Release time
(V)	1 pole	2 poles	1 pole	2 poles	% of rate	ed voltage (a	t +20°C)	Approx.	(ms)	(ms)
5 6 9 12 18 24 48 60	113 164 360 620 1295 2350±15% 8000±15% 12500±15%	70 100 225 400 902 1600 6400±15% 10000±15%		71.5 60 40 30 20 15 7.5 6	70 Max.	10 Min.	1 pole: 230% 2 poles: 200%	1 pole: 0.25 2 poles: 0.36	<10	<5

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 arrangem	ent	SPST (1 Form A or 1 Form B); SPDT (1 Form C); DPST (2 Form A or 2 Form B); DPDT (2 Form C)					
Contact material		Silver alloy					
Contact resistance		100mΩ Max. (at 1A 6VDC)					
Contact rating (resistive)		1 pole: 10A 250VAC/30VDC; 2 poles: 5A 250VAC/30VDC					
Switching power		1 pole: 2,500VA 300W Max.; 2 poles: 1,250VA 150W Max.					
Switching voltage		AC 440V / DC 125V Max.					
Insulation resistance		1,000MΩ Min. (500VDC)					
Dielectric strength		1,000VAC (50Hz/min) Between open contacts 5,000VAC (50Hz/min) Between coil and contact (Surge voltage: 10,000V) 2,500VAC (50Hz/min) Between contact set					
Shock resistance		Functional: 98m/s² (NO) 49m/s² (NC) Destructive: 980m/s²					
Vibration resistance		1.65mm Double amplitude 10-55Hz (NO) 0.80mm Double amplitude 10-55Hz (NC) <no coil="" for="" nc="" voltage=""></no>					
Ambient temperature		-40°C to +85°C					
Humidity		85% RH. 40°C					
Operation	Mechanical Electrical	1 x 10 ⁷ 1 x 10 ⁵ (at rated load)					
Weight		8g Approx.					

(Specifications are subject to change without notices.)

Q EL.ITALIA SRL

El.italia serie FW-FRM10LH





