Power Relays

Features

Miniature relay (15.7mm height) 16A switching capability Inrush current up to 80A Dielectric strength 5,000Vrms Creepage distance 10mm Wash tight type is available



c us: E141516

Ordering information

FRM10NH -	1C	S	2	DC12V	G	E	
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: 2: Terminal space 5.0mm 5 Rated voltage

5 Rated voltag

6 Contact material: NIL: AgCdO; N: AgSnO2; I : AgNi; G: AU plated

7 Insulation standard: NIL: Standard (85°C); F : F class (155°C)

Note: RoHS : RoHS compliant relay; RoHS-I : AgNi contact;

RoHS-N: AgSnO₂ contact

Coil rating

	Rated voltage	Coil resistance	Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption	Operate time	Release time
	(V)	Ω+/-10%	% of rated voltage (at 20°C)			(ms)	(ms)	
DC	5 6 9 12 18 24 48 60 110	62 90 202 360 810 1440 5760±15% 7500±15% 25200±15%	70 Max.	10 Min.	150 Max.	0.41W	<15	<8
AC	24 115 230	350±15% 8100±15% 32500±15%	75 Max.	15 Min.	110 Max.	0.75VA		

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 arranger	ontact arrangement SPST (1 Form A); SPDT (1 Form C)					
Contact material		Silver alloy				
Contact resistant	100mΩ Max. (1A 6VDC)					
Contact rating (re	stact rating (resistive) 16A 250VAC					
Switching power	Switching power 4,000VA Max.					
Switching voltage	Switching voltage AC 440V / DC 300V Max.					
Insulation resista	nsulation resistance 1,000MΩ Min. (500VDC)					
Dielectric strength		1,000VAC (50Hz/min) Between open contacts				
		5,000VAC (50Hz/min) Between coil and contact				
Shock resistance		Functional: 98m/s ²				
		Destructive: 980m/s ²				
Vibration resistance		10g/5g, 10-150Hz				
Ambient temperature		AC: -40°C to +70°C; DC: -40°C to +85°C (High temperature: -40°C to +105°C)				
Humidity		85% RH, 40°C				
Operation life	Mechanical	DC coil: 10 ⁷ ; AC coil: 10 ⁶				
	Electrical	DC coil: 10 ⁵ ; AC coil: 5 x 10 ⁴ (at rated load)				
Weight		13.5g Approx.				

(Specifications are subject to change without notices.)

Q EL.ITALIA SRL

El.italia serie FW-FRM10NH





