

# Power Relays

# El.italia serie FW-FRM16

## Features

Small size slim package (6.5mm wide)  
 Switching capacity up to 5A 250VAC/30VDC  
 Dielectric strength 3,000Vrms  
 Low coil power consumption 0.2W  
 Wash tight type



RoHS us: E141516

## Ordering information

**FRM16 A DC12V**  
 1 2 3

1 Relay model  
 2 Contact arrangement: A: 1 Form A  
 3 Rated voltage

Note: RoHS : RoHS compliant relay  
 RoHS-I : AgNi contact  
 RoHS-N: AgSnO<sub>2</sub> contact

## Coil rating

Rated voltage (V)	Coil resistance Ω +/- 10%	Rated current (mA)	Must operate voltage	Must dropout voltage	Maximum voltage 130 Max.	Power consumption (W) Approx. 0.2	Operate time (ms) <10	Release time (ms) <5
			% of rated voltage (at 20°C)					
5	125	40	70 Max.	10 Min.	130 Max.	0.2	<10	<5
12	720	16.7						
24	2880	8.3						

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.

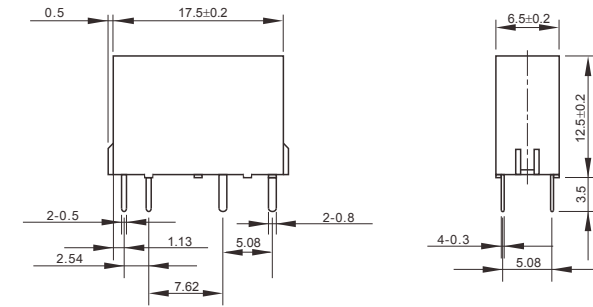
## Characteristics

Contact arrangement		SPST (1 Form A)
Contact material		Silver alloy
Contact resistance		≤100mΩ Max.
Contact rating (resistive)		5A 250VAC/30VDC
Switching power		1,250VA / 150W Max.
Switching voltage		AC 250V / DC 30V Max.
Switching load		10mA/5VDC Max.
Insulation resistance		1,000MΩ Min. (500VDC)
Dielectric strength		750VAC (50Hz/min) Between open contacts 3,000VAC (50Hz/min) Between coil and contact
Surge voltage		6KV
Shock resistance		Functional : 100m/s <sup>2</sup> 11ms Destructive: 1,000m/s <sup>2</sup> 6ms
Vibration resistance		1.5mm Double amplitude 10-50Hz
Ambient temperature		-25°C to +70°C
Humidity		85% RH, 40°C
Operation life	Mechanical	2 x 10 <sup>7</sup>
	Electrical	10 <sup>5</sup>
Weight		3g Approx.

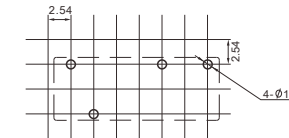
(Specifications are subject to change without notices.)

## Dimensions

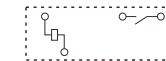
mm



### Mounting holes



### Wiring diagram (Bottom view)



## Reference data

### Endurance

