# Power Relays

### **Features**

Miniature relay 25A switching capability Dielectric strength 5,000Vrms Low coil consumption Wash tight type is available



caus: PENDING

### Ordering information

FRM10NB 25 - 1C S 2 DC12V G F	
1 Relay model 2 Contact rating: NIL: 20A; 25: 25A 3 Contact arrangement: 1A: 1 Form A; 1C: 1 Form C 3 Construction: NIL: Dust cover; S: Wash tight type 4 Version: 1: Terminal space 3.5mm; 2: Terminal space 5.0mm 5 Rated voltage	6 Contact material: N: AgSnO2; I : AgNi 7 Contact plating: G: AU plated 8 Insulation standard: NIL: Standard (85°C); F : F class (155°C) Note: RoHS : RoHS compliant relay

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)
5 6 9 12 18 24 48	61 88 198 351 790 1405 5620	70 Max.	10 Min.	130 Max.	0.41W	<u>&lt;</u> 15	<u>&lt;</u> 8

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 arrangen	nent	SPST (1 Form A); SPDT (1 Form C)		
Contact material		Silver alloy		
Contact resistance		100mΩ Max.		
Contact rating (resistive)		5mm: 25A 250VAC, 20/16A 250VAC; 3.5mm: 12/12A 250VAC		
Switching power		6,250VA Max.		
Switching voltage AC 44		AC 440V Max. (Max. switching current 25A)		
Insulation resista	Insulation resistance 1,000MΩ Min. (500VDC)			
Dielectric strength 1,000VAC (50Hz/min) Between open contacts 5,000VAC (50Hz/min) Between coil and contact				
		Functional: 980m/s <sup>2</sup> 11ms Destructive: 980m/s <sup>2</sup> 11ms		
Surge voltage		10kV (1.2/50µs) Between coil and contact		
Vibration resistance		1.5mm Double amplitude 10-55Hz		
Ambient temperature		-40°C to +105°C		
Humidity		85% RH, 40°C		
Operation life	Mechanical Electrical	1 x 10 <sup>7</sup> 1 x 10 <sup>8</sup> (105°C) 2.5 x 10 <sup>4</sup> (TV-8)		
Weight 14		14g Approx.		

(Specifications are subject to change without notices.)

## El.italia serie FW-FRM10NB







