Power Relays

El.italia serie FW-FRM1

Features

Miniature high power relay with big performance in small package High contact capacity up to 10A Designed for the use of heavy duty Slim type and low cost Dust cover or wash tight type



c**Pu**s: E141516, TV5

Ordering information

$\frac{\text{FRM1}}{1} - \frac{2C}{2} \sum_{3}^{5} \frac{2}{4} - \frac{\text{DC12V}}{5}$	
1 Relay model 2 Contact arrangement: 1A: 1 Form A; 1C: 1 Form C; 2A: 2 Form A; 2C: 2 Form C 3 Construction: NIL: Dust cover; S: Wash tight type 4 Termination: 1: Terminal space 3.5mm (for one pole only) 2: Terminal space 5.0mm	5 Rated voltage Note: RoHS : RoHS compliant relay RoHS-1 : AgNi contact RoHS-N: AgSnO ₂ contact

Coil rating

	0							
Rated voltage	Coil resistance	Rated current	Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W)	Operate time	Release time
(V)	Ω+/-10%	(mA)	% of rated voltage (at 20°C)			Approx.	(ms)	(ms)
5 6 9 12 24 48 60	47 68 160 275 1100 4170 7000	106 88 56 44 22 11.5 8.6	75 Max.	10 Min.	140 Max.	0.56	<15	<5
110	16200	6.8				0.75		

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.

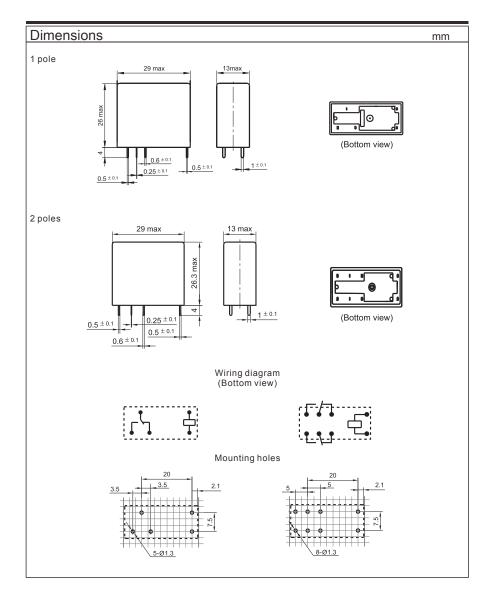
Characteristics

Contact arrangemen	nt	SPST (1 Form A or 1 Form B); SPDT (1 Form C); DPST (2 Form A); DPDT (2 Form C)					
Contact material		Silver alloy					
Contact resistance		50mΩ Max. (at 1A 24VDC)					
Contact rating (resis	stive)	1 Form C: 10A 277VAC/30VDC; 1/3HP 250VAC; 1/4HP 125VAC; TV5 2 Form C: 10A 250VAC/30VDC (Contact gap 2 x 1.5mm) (1/4HP 240VAC; 1/8HP 120VAC)					
Switching power		2,770VA / 300W Max.					
Switching voltage		AC 277V / DC 30V Max.					
Insulation resistance		1,000MΩ Min. (500VDC)					
Dielectric strength		1,000VAC (50Hz/min) Between open contacts 5,000VAC (50Hz/min) Between coil and contact 3,000VAC (50Hz/min) Between contact sets (for 2 poles)					
Shock resistance		Functional : 98m/s ² Destructive: 980m/s ²					
Vibration resistance		1.5mm Double amplitude 10-55Hz					
Ambient temperature		-40°C to +85°C					
Humidity		98% RH, 40°C					
	lechanical lectrical	10 ⁷ 10 ⁵ (at rated load)					
Weight		18g Approx.					

(Specifications are subject to change without notices.)







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