Power Relays

Features

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



c us: E141516

Ordering information

FRM1H - 1C S 2 - DC12V	
1 Relay model 2 Contact arrangement: 1A: 1 Form A; 1C: 1 Form C 3 Construction: NIL: Dust cover; S: Wash tight type 4 Terminal space: 2: 5.0mm	5 Rated voltage Note: RoHS : RoHS compliant relay RoHS-I : AgNi contact RoHS-N: AgSnO ₂ contact

Coil rating

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	47 68	106 88						
9	160	56						
12	275	44	70 Max.	10 Min.	140 Max.	0.53	<15	<5
24	1100	22						
48	4170	11.5						
60	7000+/-15%	8.5						

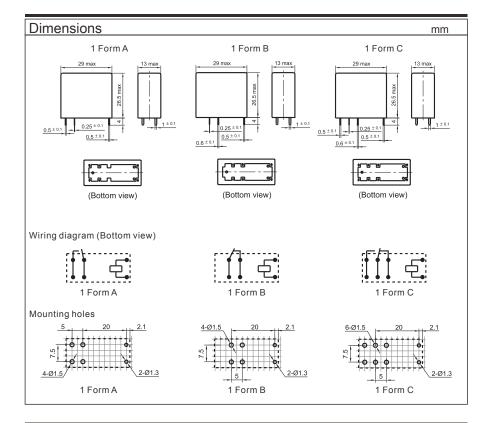
CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.

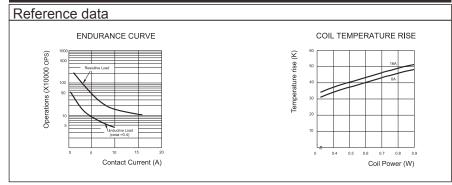
Characteristics

Contact arrangement		SPST (1 Form A or 1 Form B); SPDT (1 Form C)				
Contact material		Silver alloy				
Contact resistance		50mΩ Max. (at 1A 24VDC)				
Contact rating (resistive)		20A 277VAC/24VDC; TV-8 125VDC 1HP 240VAC				
Switching power		5,540VA / 480W Max.				
Switching voltage		AC 277V / DC 30V Max.				
Insulation resistance		1,000MΩ Min. (500VDC)				
Dielectric strength		1,000VAC (50Hz/min) Between open contacts				
		4,000VAC (50Hz/min) Between coil and contact				
Vibration resistance		1.5mm Double amplitude 10-55Hz				
Ambient temperature		-40°C to +85°C				
Humidity		98% RH, 40°C				
Operation life	Mechanical	5 x 10 ⁶				
	Electrical	1 x 10 ⁵ (at rated load)				
Weight		18.5g Approx.				

(Specifications are subject to change without notices.)

El.italia serie FW-FRM1H









^{2.} Pickup and release voltage are for test purposes only and are not to be used as design criteria.