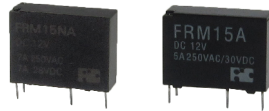


Features

Small size & slim type (7.2mm wide)
 Switching capacity up to 10A
 Dielectric strength 4,000Vrms
 Low coil power consumption 0.2W
 Wash tight type
 F class insulation standard



RoHS: E141516 (For FRM15A only)

Ordering information

FRM15 A DC12V - G	
1	2 3 4
1 Relay model: FRM15; FRM15N; FRM15N1	4 Contact material: NIL: AgNi; N: AgSnO ₂ ; G : AgNi with gold plate; NG: AgSnO ₂ with gold plate
2 Contact arrangement: A: 1 Form A	Note: RoHS : RoHS compliant relay RoHS-I : AgNi contact RoHS-N: AgSnO ₂ contact
3 Rated voltage	

Coil rating

Rated voltage (V)	Coil resistance Ω±/-10%	Rated current (mA)	Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W) Approx.	Operate time (ms)	Release time (ms)
			% of rated voltage (at 20°C)					
4.5	101	44.6	75 Max.	5 Min.	130 Max.	0.2	<10	<10
5	125	40						
6	180	33.3						
9	405	22.2						
12	720	16.7						
18	1620	11.1						
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

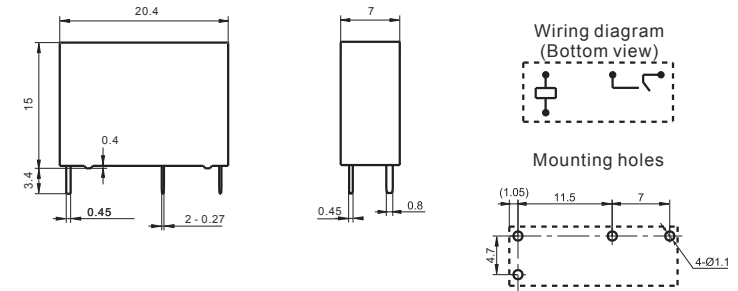
Contact arrangement	SPST (1 Form A)	
Contact material	Silver alloy	
Contact resistance	≤100mΩ Max. (at 1A 24VDC)	
Contact rating (resistive)	FRM15A : 5A 250VAC/30VDC FRM15NA: 7A 250VAC/28VDC (Special: 10A 277VAC/30VDC)	
Switching power	FRM15: 1,385VA / 150W Max.; FRM15N: 2,770VA / 300W Max.	
Switching voltage	AC 277V / DC 30V Max.	
Insulation resistance	1,000MΩ Min. (500VDC)	
Dielectric strength	1,000VAC (50Hz/min) Between open contacts 4,000VAC (50Hz/min) Between coil and contact	
Surge voltage	10KV (1.2 x 50μs) Between coil and contact	
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	85% RH, 40°C	
Operation life	Mechanical	5 X 10 ⁴
	Electrical	FRM15A: 10 ⁵ (5A 250VAC - 5 x 10 ⁴); FRM15NA: 10 ⁵ (10A 250VAC - 1 x 10 ⁴)
Weight	FRM15: 4g Approx.; FRM15N: 3g Approx.	

(Specifications are subject to change without notices.)

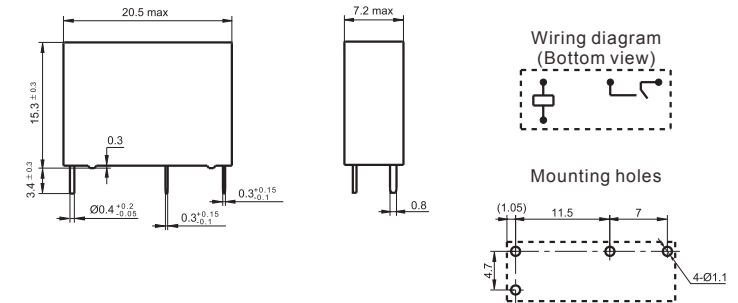
Dimensions

mm

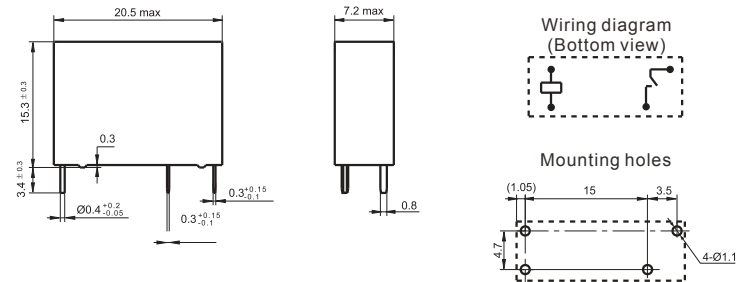
FRM15



FRM15N

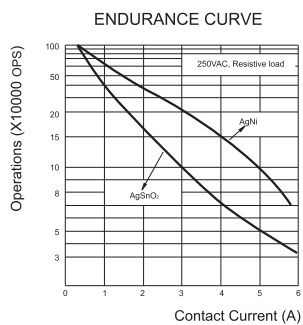


FRM15N1



Reference data

Contact rating: 7A 125VAC/250VAC



Contact rating: 10A 277VAC/30VDC

