Power Relays

Features

Subminiature, standard PC layout
High switching capacity in a compact package
SPST (N.O.) and SPDT (N.O. & N.C.) configurations
High sensitivity: 0.2W (SPST); 0.45W (SPDT)
Use on control, air conditioner and heating control of small appliances
Dust cover or wash tight type



c us: E139468

Ordering information

Grading information						
FRM8 H A - S - I DC12V XXX						
1 Relay model	6 Rated voltage					
2 Power consumption: NIL: 0.45W; H: 0.2W (SPST only)	7 Special code					
3 Contact arrangement: A: 1 Form A; C: 1 Form C	Note: RoHS : RoHS compliant relay;					
4 Construction: NIL: Dust cover; S: Wash tight type	RoHS- I: AgNi contact;					
5 Contact material: NIL: AgCdO; I: AgNi; +G: Au plated	RoHS-N: AgSnO₂ contact					

Coil rating

Rated voltage	resis	oil tance ·10%	cur	ted rent nA)	Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W)	Operate time	Release time
(V)	FRM8	FRM8H	FRM8	FRM8H	% of rat	ted voltage (a	at 20°C)	Approx.	(ms)	(ms)
3	20	45	150	66.7						
5	55	125	91	40				FRM8: 0.45		
6	80	180	75	33.3				1 1 (WIO. 0.40		
9	180	400	50	22.5	75 Max.	5 Min.	130 Max.	FRM8H: 0.2	<8	<5
12	320	700	37.5	16.7	75 Wax.	S WIIII.	130 Max.	(for SPST	\ 0	\5
18	720	1600	25	11.2				only)		
24	1280	2800	18.8	8.5				l Gilly)		
48	5120	11580	9.4	4.1						

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. (at 1A 6VDC)				
Contact rating (resistive)		UL approval:				
		SPST (N.O.): 10A 125VAC 5A 250VAC/30VDC				
		SPDT (N.O.): 10A 125VAC 5A 250VAC/30VDC				
		(N.C.): 3A 250VAC/30VDC				
		VDE rating:				
		NO: 5A 250VAC NC: 3A 250VAC				
Switching power		1,250VA / 150W Max. (NO) 750VA / 90W Max. (NC)				
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				
Shock resistance		Functional: 98m/s ²				
		Destructive: 980m/s ²				
Vibration resistance		1.6mm Double amplitude 10-55Hz				
Ambient temperature		-40°C to +70°C (Special NO contact: AgNi -40°C to +85°C)				
Operation life	Mechanical	10 ⁷				
	Electrical	10 ⁵ (at rated load)				
Weight		7g Approx.				

(Specifications are subject to change without notices.)

Q EL.ITALIA SRL

El.italia serie FW-FRM8





