Power Relays

Features

Miniature relay (15.7mm height) 0.25W power consumtion High contact capacity Dielectric strength 5,000Vrms Dust cover or wash tight type



cNus: E141516 (For 3.5mm version)

Ordering information	
ERM10NI - $1C S 2 - DC12V G E$ 1 - $2 3 4 - DC12V G F$	
1 Relay model 2 Contact arrangement: 1A: 1 Form A; 1C: 1 Form C 3 Construction: NIL: Dust cover type; S: Wash tight type	7 Contact material: NIL: AgCdO; I : AgNi; N : AgSnO ₂ 8 Contact plating: G: Au plated
4 Version: 1: Terminal space 3.5mm (10A) 2: Terminal space 5.0mm (16A) 5 Rated voltage	8 Insulation standard: NIL: B class; F: F class Note: RoHS : Compliant relay

Coil rating

	Rated voltage	Coil resistance Ω+/-10%	Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption	Operate time	Release time
	(V)	2217-1070	% of rated voltage (at 20°C)		Approx.	(ms)	(ms)	
DC	5 6 9 12 24 48 60 110	100 144 325 576 2304 9216±15% 12857±15%	70 Max.	10 Min.	130 Max.	0.25W	<15	<8

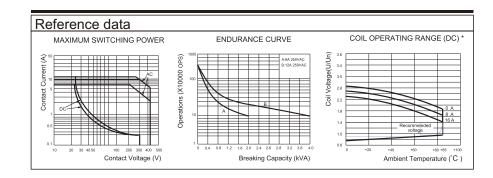
CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay. 2. Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Characteristics

Contact arrangement	SPST (1 Form A); SPDT (1 Form C)			
Contact material	Silver alloy			
Contact resistance	100mΩ Max. (at 1A 6VDC)			
Contact rating (resistive)	10A 250VAC (3.5mm terminal space)			
	16/12A 250VAC (5.0mm terminal space)			
Switching power	2,500VA Max.(3.5mm terminal space); 6,250VA Max.(5.0mm terminal space)			
Switching voltage	AC 440V Max.			
Insulation resistance	1,000MΩ Min. (500VDC)			
Dielectric strength 1,000VAC (50Hz/min) Between open contacts				
	5,000VAC (50Hz/min) Between coil and contact			
	2,500VAC (50Hz/min) Between pole and pole			
Surge voltage	10,000V Between coil and contact (1.2 x 50µs)			
Shock resistance	Functional : 98 m/s ²			
	Destructive: 980m/s ²			
Vibration resistance	ion resistance 1.5mm Double amplitude 10-55Hz			
Ambient temperature	-40°C to +85°C (High temperature: -40°C to +105°C for 1 pole only)			

	Humidity		85% RH, 40°C
	Operation life	Mechanical	10 ⁷
		Electrical	10 ⁵
[Weight		14g Approx.
	(Specifications are s	subiect to chance	ue without notices.)

Dim<u>ensions</u> mm 3.5mm terminal space 5.0mm terminal space 29 ± 0.3 12.7 ±0.3 29 ±0.3 12 7 ±0.3 3.6 ±0.5 3.6 ±0.5 0.3 ±0.2 0.3 ±0.2 11 0.5x0.5 0.5x0.5 6-0.5x0.8 3-0.5x0.8 Wiring diagram (Bottom view) 3.5mm terminal space Ē 1 Form A 1 Form C 5.0mm terminal space 1 Form A 1 Form C Mounting holes 3.5mm terminal space 5.0mm terminal space 5-Ø1.3 8-Ø1.3 20.16



El.italia serie FW-FRM10NI





