

Power Relays

El.italia serie FW-FRS4H

Features

Miniature light weight relay
 Low coil power consumption
 Switching capacity from 5A to 15A
 Wash tight type is available



us: E141516

Ordering information

ERS4H C - S 12 DC12V XXX
 1 2 3 4 5 6

1 Relay model
 2 Contact arrangement: A: 1 Form A; B: 1 Form B; C: 1 Form C
 3 Construction: NIL: Dust cover; S: Wash tight type
 4 Contact rating: 5: 5A; 7: 7A; 12: 12A; 15: 15A

5 Rated voltage
 6 Special code
 Note: RoHS : RoHS compliant relay
 RoHS-I : AgNi contact
 RoHS-N: AgSnO₂ contact

Coil rating

Rated voltage (V)	Coil resistance Ω±10%	Rated current (mA)	Must operate voltage % of rated voltage (at 20°C)	Must dropout voltage	Maximum voltage	Power consumption (W) Approx.	Operate time (ms)	Release time (ms)
3	25	120	75 Max.	10 Min.	130 Max.	0.36	<15	<5
6	100	60						
9	225	40						
12	400	30						
24	1600	15						
48	6400	7.5						
3	20	150	75 Max.	10 Min.	130 Max.	0.45	<15	<5
6	80	75						
9	180	50						
12	320	37.5						
24	1280	19						
48	5120	9.5						

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 or 1 Form B); SPDT (1 Form C)	
Contact material	Silver alloy	
Contact resistance	100mΩ Max.	
Contact rating (resistive)	5A 125VAC/28VDC 7A 125VAC/28VDC	12A 125VAC/28VDC 15A 125VAC/28VDC TV-5 120VAC/240VAC
Switching power	2,200VA / 420W Max.	
Switching voltage	AC 250V / DC 125V Max.	
Insulation resistance	100MΩ Min. (500VDC)	
Dielectric strength	750VAC (50Hz/min) Between open contacts 1,500VAC (50Hz/min) Between coil and contact	
Shock resistance	10g Approx.	
Vibration resistance	1.5mm Double amplitude 10-55Hz	
Ambient temperature	-40°C to +85°C	
Humidity	85% RH, 40°C	
Operation life	Mechanical	10 ⁷
	Electrical	10 ⁵ (at rated load)
Weight	15g Approx.	

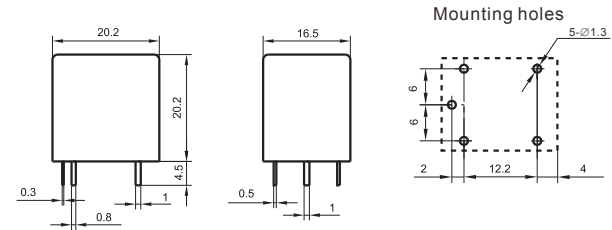
(Specifications are subject to change without notices.)

Forward Industrial Company

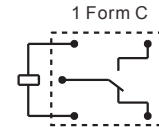
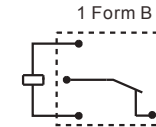
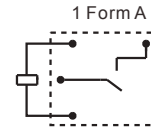
EL.ITALIA SRL

Dimensions

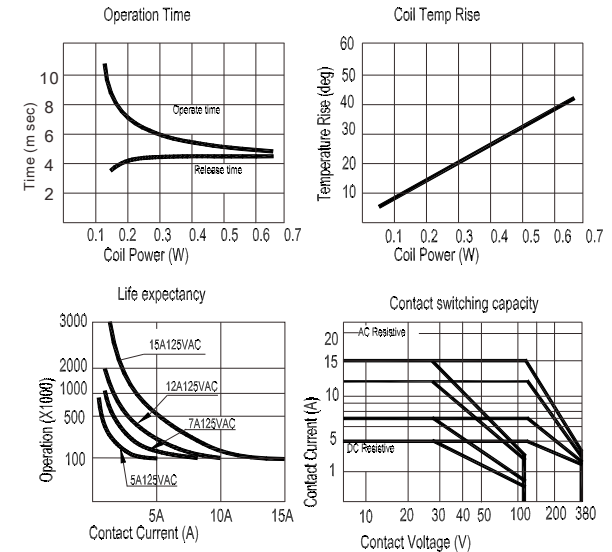
mm



Wiring diagram (Bottom view)



Reference data



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