

Power Relays

Features

Subminiature light weight relay
 Printing circuit terminal
 Low coil power consumption
 Switching capacity up to 20A
 Dust cover or wash tight type



Part number: E141516

Manufacturer code: R50136658 / R50149970

Ordering information

FRS11 C - S 10 DC12V E

1 2 3 4 5 6

1 Relay model	5 Rated voltage
2 Contact arrangement: A: 1 Form A; B: 1 Form B; C: 1 Form C	6 Insulation standard: NIL: B class; F : F class (155°C)
3 Construction: NIL: Dust cover; S: Wash tight type	Note: RoHS : RoHS compliant relay RoHS-I : AgNi contact RoHS-N: AgSnO ₂ contact
4 Contact rating: 5: 5A 125VAC/28VDC; 10: 10A 125VAC/28VDC; 12: 12A 125VAC/28VDC; 10A 250VAC; 6A 277VAC; 15: 15A 125VAC/28VDC; 20: 20A 125VAC/16VDC; 1/3HP 125V/277VAC TUV rating: 6A 250VAC/28VDC	

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	<10	<5
5	70	70						
6	100	60						
9	220	40						
12	400	30						
24	1600	15						
48	6400	7.5						

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)	05: 5A 125VAC/28VDC 10: 10A 125VAC/28VDC 12: 12A 125VAC/28VDC 10A 250VAC 6A 277VAC (TUV: 6A 250VAC/28VDC) 15: 15A 125VAC/28VDC 20: 20A 125VAC/16VDC 1/3HP 125V/277VAC	
Switching power	2,500VA / 420W Max.	
Switching voltage	AC 380V / DC 110V Max.	
Insulation resistance	250MΩ Min. (500VDC)	
Dielectric strength	1,000VAC (50Hz/min) Between open contacts 1,500VAC (50Hz/min) Between coil and contact	
Shock resistance	10g Approx.	
Vibration resistance	1.5mm Double amplitude 10-50Hz	
Ambient temperature	-40°C to +85°C	
Humidity	93% RH, 40°C	
Operation life	Mechanical	10 ⁷
	Electrical	10 ⁵ (at rated load)
Weight	10g Approx.	

(Specifications are subject to change without notices.)

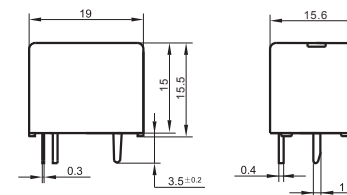
Forward Industrial Company

 **EL.ITALIA SRL**

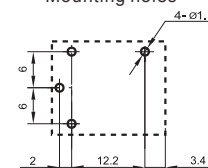
El.italia serie FW-FRS11

Dimensions

mm

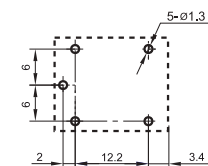
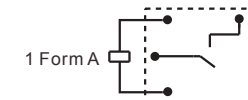


Mounting holes

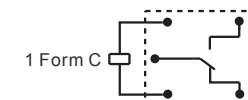


1 Form A

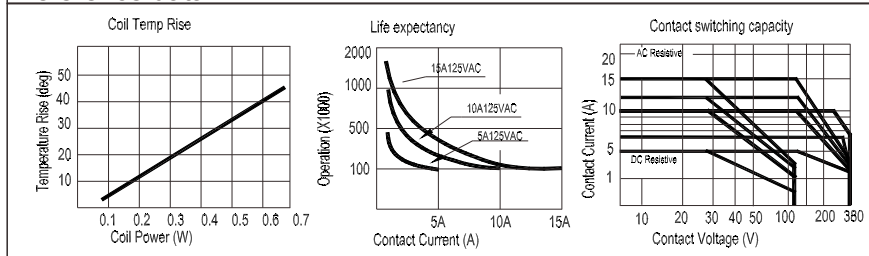
Wiring diagram (Bottom view)



1 Form C



Reference data



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