

Automotive Relays

El.italia serie FW-FRC1W

Features

- FRC1 waterproof cover series
- Quick connect terminals
- High contact rating (40A)
- Suitable for automobile and lamp accessories applications



Ordering information

FRC1W A - 2 N S - DC12V
 1 2 3 4 5 6

1 Relay model	5 Construction: NIL: Dust cover; S: Wash tight type
2 Contact arrangement: A: 1 Form A; C: 1 Form C	6 Rated voltage
3 Mounting termination: NIL: Without metal bracket; 2 : With metal bracket	Note: RoHS : RoHS compliant relay RoHS-I : AgNi contact RoHS-N: AgSnO ₂ contact
4 Coil suppression: NIL: Standard type; N: With diode; R : With resistor; T: With transil (DB-03)	

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)					
6	22.5	267	65 Max.	10 Min.	130 Max.	1.6	<7	<5
12	90	133						
24	360	67						
48	1440	33.3						

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.

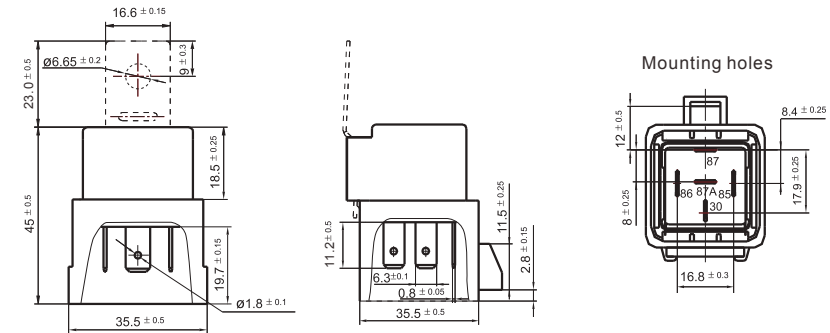
Characteristics

Contact arrangement	SPST (1 Form A); SPDT (1 Form C)	
Contact material	Silver alloy	
Contact resistance	30mΩ Max.	
Contact rating (resistive)	NO: 40A 14VDC; NC: 30A 14VDC (Special: 40A)	
Switching power	680W Max.	
Switching voltage	DC 75V Max.	
Insulation resistance	100MΩ Min. (500VDC)	
Dielectric strength	500VAC (50Hz/min)	
Shock resistance	20g Approx.	
Vibration resistance	1.5mm Double amplitude 10-40Hz	
Ambient temperature	Operation: -40°C to +85°C (Special request up to 125°C) Storage: -40°C to +155°C	
Humidity	85% RH, 40°C	
Operation life	Mechanical	10 ⁷
	Electrical	10 ⁵
Weight	48g Approx. (with metal bracket)	

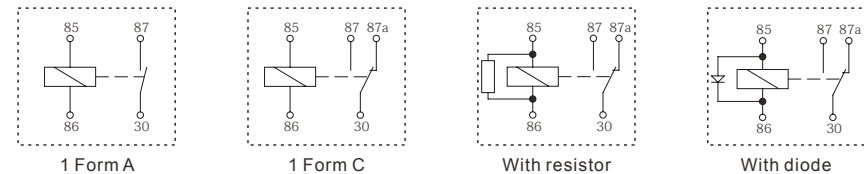
(Specifications are subject to change without notices.)

Dimensions

mm



Wiring diagram



Reference data

