## Automotive Relays

#### Features

High contact rating (60A) High temperature design Ideal for use in control-car starter and light Plug in or PC board terminals Dust cover only



#### Ordering information

# FRC2 B A - 1 B N - DC12V

1 Relay model

2 Contact rating: NIL: 50A(NO) 40A(NC); B: 60A(NO) 40A(NC) 3 Contact arrangement: A: 1 Form A; C: 1 Form C; U: 1 Form U

3 Contact arrangement: A: 1 Form A; C: 1 Form C; U: 1 F 4 Mounting termination: NIL: Moulded bracket dust cover;

Houring termination: Wit: Modified Bracket dust cover,
 Plain dust cover;
 Version: NIL: Plug-in type;
 A: PCB type

6 Coil suppression: NIL: Standard type;
N: With diode; R: Resistor; T: Transil (DB-03)

7 Rated voltage

Note: RoHS : RoHS compliant relay

RoHS-I: AgNi contact RoHS-N: AgSnO<sub>2</sub> contact

### Coil rating

Rated voltage	Coil resistance	Rated current	Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W)	Operate time	Release time	
(V)	Ω+/-10%	(mA)	% of rated voltage (at 20°C)			Approx.	(ms)	(ms)	
6 12 24 48	20 80 320 1280	300 150 75 37.5	65 Max.	10 Min.	130 Max.	1.8	<7	<5	

\*If use resistor:

DC 6V with 180Ω resistor

DC 12V with 680Ω resistor

DC 24V with 2,702Ω resistor

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		1 Form A; 1 Form C; 1 Form U				
Contact material		Silver alloy				
Contact resistance		30mΩ Max.				
Contact rating (resistive)		1A: 50A 14VDC (Special request: 60A 14VDC)				
		1C: (NO) 50A 14VDC; (NC) 40A 14VDC				
		1U (2 x 1 Form A): 2 x 25A 14VDC				
Switching power		700W 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		-40°C to +85°C (Special request up to 125°C)				
Humidity		85% RH, 40°C				
Operation life	Mechanical	10 <sup>7</sup>				
	Electrical	10 <sup>5</sup> (at rated load)				
Weight		38g Approx.				

(Specifications are subject to change without notices.)

# O EL.ITALIA SRL

## El.italia serie FW-FRC2





