# Automotive Relays

#### **Features**

Up to 35A contact rating High temperature design 1 Form A & 1 Form C arrangements Ideal use for control car Quick connect or PCB terminals Wash tight type is available







## Ordering information

# FRC7 A - S A R - DC12V

1 Relay model: FRC7; FRC7B; FRC7N 2 Contact arrangement: A: 1 Form A; C: 1 Form C

3 Construction: NIL: Dust cover; S: Wash tight type

4 Version: NIL: Plug in type (pin width for #85, #86 is 4.8mm);

1 : Plug in type (pin width for #85, #86 is 2.75mm);

A : PCB type

5 Coil suppression: NIL: Standard type;

N: With diode; R: Resistor; T: Transil (DB-03)

6 Rated voltage

Note: RoHS : RoHS compliant relay

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

### Coil rating

Rated voltage	Coil resistance Ω+/-10%		Rated current (mA)		Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W)	Operate time	Release time
(V)	1 Form A	1 From C	1 Form A	1 Form C	% of rated voltage (at 20°C)			Approx.	(ms)	(ms)
6 12 24	30 120 480	25 96 384	200 100 50	250 124 62.5	Unsealed: 60 Max.; Sealed: 65 Max.	10 Min.	130 Max.	1 From A: 1.2; 1 Form C: 1.5	<10	<7

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 arrangeme	ent	SPST (1 Form A); SPDT (1 Form C)					
Contact material		Silver alloy					
Contact resistance		50mΩ Max.					
Contact rating (resi	istive)	FRC7 : 25A 14VDC (NO) 20A 14VDC (NC)					
		FRC7B: 35A 14VDC (NO) 25A 14VDC (NC)					
		FRC7N: 25A 14VDC (only available with "1 Form A")					
Switching power		FRC7: 490W Max.; FRC7N: 420W Max.					
Switching voltage		DC 75V Max.					
Insulation resistance	ce	100MΩ Min. (500VDC)					
Dielectric strength		500VAC (50Hz/min)					
Shock resistance		10g Approx.					
Vibration resistance	е	1.27mm Double amplitude 10-40Hz					
Ambient temperatu	ire	-40°C to +85°C (Special request up to 125°C)					
Humidity		85% RH, 40°C					
Operation life   N	Mechanical	10 <sup>7</sup>					
E	Electrical	10 <sup>5</sup> (at rated load)					
Weight		FRC7: 18.5g Approx.; FRC7N: 14g Approx.					

 $<sup>({\</sup>it Specifications}\ are\ subject\ to\ change\ without\ notices.)$ 

## El.italia serie FW-FRC7









