Automotive Relays

Features

High contact rating (70A) High temperature design 1 Form A arrangement Ideal for use in control-car starter and light Quick connect or PC board terminals Dust cover



Ordering information

FRC1H A - 1 A N DC12V

1 Relay model

2 Contact arrangement: A: 1 Form A

3 Mounting termination: NIL: Moulded bracket dust cover;

1 : Dust cover

4 Version: NIL: Plug in type; 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, 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	22.5 90 360	267 133 67	65 Max.	10 Min.	130 Max.	1.6	<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		SPST (1 Form A)			
Contact material		Silver alloy			
Contact resistance		30mΩ Max.			
Contact rating (resistive)		70A 14VDC			
Switching power		980W Max.			
Switching voltage		DC 75V Max.			
Insulation resistance		100MΩ Min. (at 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: -40°C to +105°C)			
Humidity		85% RH, 40°C			
Operation life	Mechanical	10 ⁷			
	Electrical	10 ⁵			
Weight		37g Approx.			

(Specifications are subject to change without notices.)

El.italia serie FW-FRC1H









