Automotive Relays

Features

FRC1 shrouded base type Quick connect terminals High contact rating (40A) High temperature design



Ordering information

FRC1E	ΞA-	N [C12V	
1	2	3	4	

1 Relay model

2 Contact arrangement: A: 1 Form A

3 Coil suppression: NIL: Standard type; R : Resistor;

N: With diode T: transil (DB-03) 4 Rated voltage

Note: RoHS : RoHS compliant relay RoHS-I : AgNi contact

RoHS-I: AgNi contact RoHS-N: AgSnO₂ 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	20	300						
	12	80	150	65 Max.	10 Min.	130 Max.	1.8	<7	<5
ı	24	320	75						

*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		50m $Ω$ Max.			
Contact rating (resistive)		40A 14VDC			
Switching power		630W 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 +125°C)			
Humidity		85% RH, 40°C			
Operation life	Mechanical	10 ⁷			
	Electrical	10 ⁵			
Weight		36g Approx.			

(Specifications are subject to change without notices.)

El.italia serie FW-FRC1E







