FRA2

Automotive Relays

Features

Miniature high power design for PC board Automobile relay with high switching power Switching current up to 45A Low cost and high performance European(11mm) or USA(8mm) footprints Open type, dust cover or wash tight type





Ordering information

FRA2 B C - C 1 DC12V R 7

1 Relay model

2 Contact rating: NIL: 40A 14VDC; B: 45A 14VDC 3 Contact arrangement: A: 1 Form A; B: 1 Form B;

C: 1 Form C

4 Construction: NIL: Open type; C: Dust cover;

S : Wash tight type

5 Version: 1: USA(8mm); 2: European(11mm)

6 Rated voltage

7 Termination: R: Without one COM PIN Note: RoHS: RoHS compliant relay

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 12 24	19 90 360	315 133 66	57.5 Max.	10 Min.	150 Max.	1.6	<5	<5

CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.

Characteristics

Contact arrangement		SPST (1 Form A or 1 Form B) SPDT (1 Form C)				
Contact material		Sliver alloy				
Contact resistance	e	30mΩ Max.				
Contact rating (re	sistive)	NO: 40A/14VDC NC: 30A/14VDC (Special request NO: 45A/14VDC)				
Switching voltage	9	DC 75V Max.				
Insulation resistance		100MΩ Min. (500VDC)				
Dielectric strengt	h	500VAC (50Hz/min) Between open contacts				
		750VAC (50Hz/min) Between coil and contact				
Shock resistance		20g Approx.				
Vibration resistar	nce	1.27mm Double amplitude 10-40Hz				
Ambient temperature		Operation: -40°C to +105°C (Special request: -40°C to +125°C)				
Humidity		85% RH, 40°C				
Operation life	Mechanical	10 ⁷				
	Electrical	10 ⁵ (at rated load)				
Weight		Open type: 17g Approx. Wash tight type: 21g Approx.				

(Specifications are subject to change without notices.)

^{2.} Pickup and release voltage are for test purposes only and are not to be used as design criteria.



