Automotive Relays FRA2

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) terminal distance 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

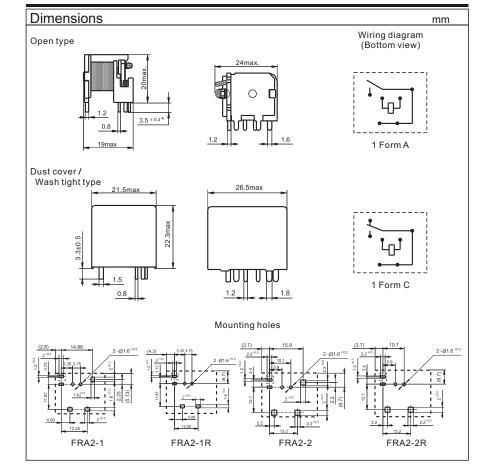
Rated voltage	Coil resistance	Rated current	Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W)	Operate time	Release time
(V)	Ω+/-10%	(mA)	% of rated voltage (at 20°C)			Approx.	(ms)	(ms)
6	19	315						
12	90	133	57.5 Max.	10 Min.	150 Max.	1.6	<5	<5
24	360	66						

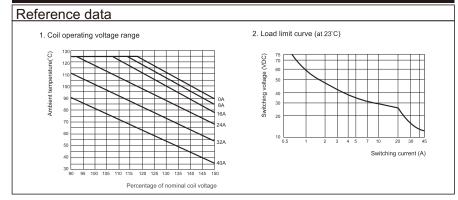
CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.

Characteristics

Contact arrangement	SPST (1 Form A or 1 Form B) SPDT (1 Form C)					
Contact material	Silver alloy					
Contact resistance	$30m\Omega$ Max.					
Contact rating (resistive)	NO: 40A/14VDC NC: 30A/14VDC (Special request NO: 45A/14VDC)					
Switching power	630W Max.					
Switching voltage	DC 75V Max.					
Insulation resistance	100MΩ Min. (500VDC)					
Dielectric strength	500VAC (50Hz/min) Between open contacts					
	750VAC (50Hz/min) Between coil and contact					
Shock resistance	20g Approx.					
Vibration resistance	1.27mm Double amplitude 10-40Hz					
Ambient temperature	Operation: -40°C to +105°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.