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
1 2 3 4 5 6 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: $AgSnO_2$ contact

Coil rating

Rated voltage (V)	Coil resistance Ω+/-10%	Rated current (mA)	Must operate voltage % of rated voltage (at 20°C)	Must dropout voltage % of rated voltage (at 20°C)	Maximum voltage % of rated voltage (at 20°C)	Power consumption (W) Approx.	Operate time (ms)	Release time (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.
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 or 1 Form B) SPDT (1 Form C)
Contact material		Sliver alloy
Contact resistance		30mΩ Max.
Contact rating (resistive)		NO: 40A/14VDC NC: 30A/14VDC (Special request NO: 45A/14VDC)
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 (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.)