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) terminal distance Open type, dust cover or wash tight type





Ordering information

FRA2 B C - C 1 DC12V R 7						
1 Relay model	5 Version: 1: USA(8mm); 2: European(11mm)					
2 Contact rating: NIL: 40A 14VDC; B: 45A 14VDC	6 Rated voltage					
3 Contact arrangement: A: 1 Form A; B: 1 Form B;	7 Termination: R: Without one COM PIN					
C: 1 Form C	Note: RoHS : RoHS compliant relay					

4 Construction: NIL: Open type; C: Dust cover; S: Wash tight type

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	19 90	315 133	57.5 Max.	10 Min.	150 Max.	1.6	<5	<5
24	360	66	57.5 Max.	TO WITE.	150 Max.	1.6	7	7

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 arrangeme	ent	SPST (1 Form A or 1 Form B) SPDT (1 Form C)				
Contact material		Silver alloy				
Contact resistance		$30m\Omega$ Max.				
Contact rating (resis	istive)	NO: 40A/14VDC NC: 30A/14VDC (Special request NO: 45A/14VDC)				
Switching power		630W Max.				
Switching voltage		DC 75V Max.				
Insulation resistance	ce	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 temperatur	re	Operation: -40°C to +105°C				
Humidity		85% RH, 40°C				
Operation life N	Mechanical	10 ⁷				
E	Electrical	10 ⁵ (at rated load)				
Weight		Open type: 17g Approx. Wash tight type: 21g Approx.				

(Specifications are subject to change without notices.)

El.italia serie FW-FRA2









