Automotive Relays

Features

Miniature power designed for mounting on PC board Small size and light weight Low cost and high performance Switching capacity up to 25A Open type, dust cover or wash tight type





Ordering information

FRA3 C - S 1 DC12V					
1 Relay model		4 Version:			
2 Contact arrangement: A: 1 Form A;	B: 1 Form B;	NIL: Operate voltage 57.5% Max. (at 20°C)			
C: 1 Form C;	U: 1 Form U;	1 : Special operate voltage 55% Max. (at 20°C)			
\/: 1 Form \/:	W: 1 Form W	5 Pated voltage			

3 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	36	167						
12	145	83	57.5 Max.	10 Min.	150 Max.	1.0	<10	<5
24	576	42						

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		1 Form A; 1 Form B; 1 Form C; 1 Form U; 1 Form V; 1 Form W			
Contact material		Silver alloy			
Contact resistance		50mΩ Max.			
Contact rating (resistive)		1 Form A (NO): 20A 14VDC (Special request: 25A 14VDC) 1 Form C (NO): 15A 14VDC; (NC): 10A 14VDC 1 Form U (NO-DB): 2 x 15A/14VDC 1 Form V (NC-DB): 2 x 10A/14VDC 1 Form W (NO): 2 x 15A; (NC): 2 x 10A			
Switching power		280W / 2 x 280W Max.			
Switching voltage		DC 75V Max.			
Insulation resistance		100MΩ Min. (500VDC)			
Dielectric strength		750VAC (50Hz/min) Between open contacts 1,500VAC (50Hz/min) Between coil and contact			
Shock resistance		10g Approx.			
Vibration resistance		1.27mm Double amplitude 10-40Hz			
Ambient temperature		Storage: -40°C to +130°C; Operation: -40°C to +105°C			
Humidity		85% RH, 40°C			
Operation life	Mechanical Electrical	10 ⁷ 10 ⁸ (at rated load)			
Weight		Open type: 9g Approx. Wash tight type: 12g Approx.			

(Specifications are subject to change without notices.)

El.italia serie FW-FRA3









