Power Relays

Features

Miniature light weight power relay Switching capacity up to 20A Dielectric strength 2,500VAC Wash tight type is available



c us: E141516 : 40025435

Ordering information

FRS4N	<u>C</u> -	S	12	DC12V	XXX
1	2	3	4	5	6

1 Relay model

2 Contact arrangement: A: 1 Form A; B: 1 Form B; C: 1 Form C

3 Construction: NIL: Dust cover; S: Wash tight type 4 Contact rating: 7:7A 125VAC/28VDC

12: 12A 125VAC/28VDC (10A 250VAC) 15: 15A 125VAC/28VDC 20: 20A 125VAC/28VDC

5 Rated voltage 6 Special code

Note: RoHS : RoHS compliant relay RoHS-I : AgNi contact RoHS-N: AgSnO, 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 ra	ated voltage (at	20°C)	Approx.	(ms)	(ms)
3 5 6 9 12 18 24 48	25 70 100 225 400 900 1600 6400	120 71 60 40 30 20 15 7.5	75 Max.	10 Min.	130 Max.	0.36	<15	<5
3 6 9 12 24 48	20 80 180 320 1280 5120	150 75 50 38 19 9.4				0.45		

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

Ondidotoriotios	
Contact arrangement	SPST (1 Form A or 1 Form B); SPDT (1 Form C)
Contact material	Silver alloy
Contact resistance	100mΩ Max.
Contact rating (resistive)	7:7A 125VAC/28VDC 12: 12A 125VAC/28VDC (10A 250VAC) 15: 15A 125VAC/28VDC 20: 20A 125VAC/28VDC (for 1 Form A only) Horse power: ½HP 120VAC (VDE rating for 10A 250VAC/28VDC)
Switching power	2,500VA / 560W Max.
Switching voltage	AC 380V / DC 110V Max.
Insulation resistance	100MΩ Min. (500VDC)
Dielectric strength	750VAC (50Hz/min) Between open contacts 2,500VAC (50Hz/min) Between coil and contact

El.italia serie FW-FRS4N

Shock resistance	1	10g Approx.	
Vibration resistance 1.5mm Double amplitude 10-55Hz		1.5mm Double amplitude 10-55Hz	
Ambient tempera	ture	-40°C to +70°C	
Operation life	Mechanical	10 ⁷	
	Electrical	10 ⁵ (at rated load)	
Weight 16g		16g Approx.	

(Specifications are subject to change without notices.)









