

Power Relays

El.italia serie FW-FRS5

Features

Subminiature light weight relay
High sensitivity
Switching capacity up to 16Amp
PCB mounting, DIL pitch terminal
Dust cover or wash tight type



CE Marking: E141516 (*Note: All approvals for 16A only)

RoHS Marking: R2034463

Ordering information

FRS5 H C - S 10 DC12V - 1						
1	2	3	4	5	6	7
1 Relay model				6 Rated voltage		
2 Power consumption: NIL: 0.45W; H: 0.2W (for "1 Form A" only)				7 TÜV approved		
3 Contact arrangement: A: 1 Form A (NO); C: 1 Form C (NO/NC)				Note: RoHS : RoHS compliant relay; RoHS- I: AgNi contact; RoHS-N: AgSnO ₂ contact		
4 Construction: NIL: Dust cover; S: Wash tight type						
5 Contact rating: 10: 10Amp; 16: 16Amp (all approvals for 16Amp only)						

Coil rating

Rated voltage (V)	Coil resistance $\Omega \pm 10\%$		Rated current (mA)		Must operate voltage % of rated voltage (at +20°C)	Must dropout voltage	Maximum voltage	Power consumption (W) Approx.	Operate time (ms)	Release time (ms)
	FRS5H	FRS5	FRS5H	FRS5						
5	125	55.5	40	90	80 Max.	5 Min.	130 Max.	FRS5H: 0.2 (1 Form A only) FRS5: 0.45 (0.8 for 48VDC, 1.0 for 110VDC)	<8	<5
6	180	80	33	75						
9	405	180	22	50						
12	720	320	16	37.5						
24	2880	1280	8	18.8						
48	-	3840	-	12.5						
110	-	12100	-	9.1						

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.

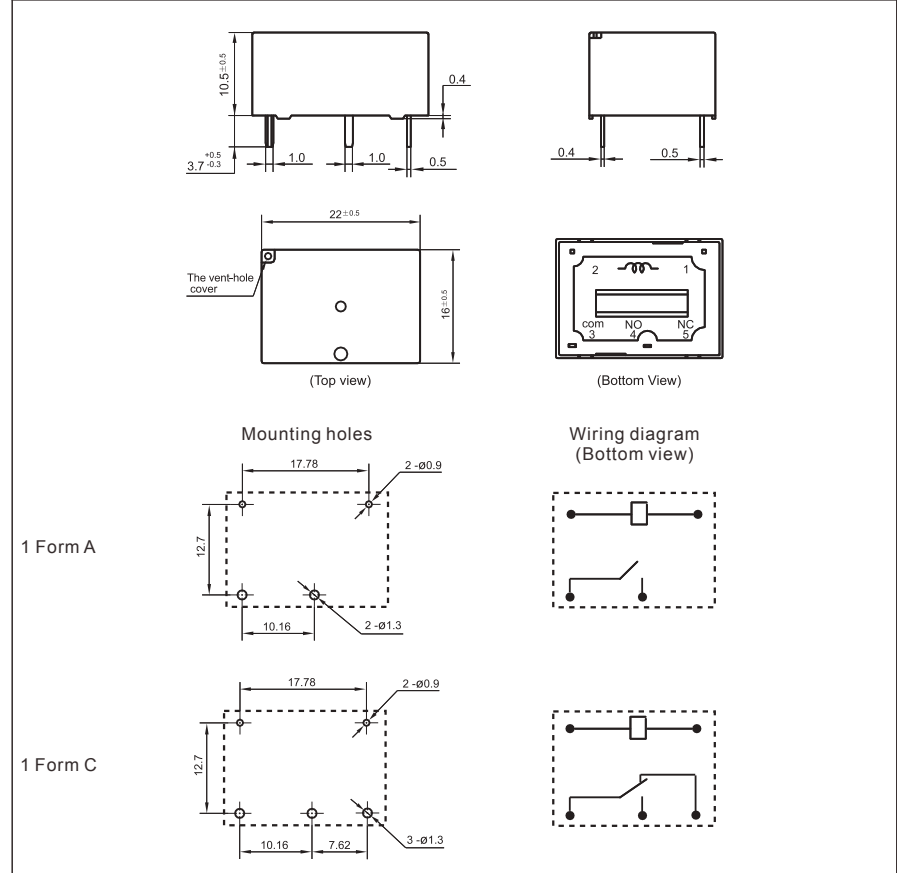
Characteristics

Contact arrangement	SPST (1 Form A); SPDT (1 Form C)
Contact material	Sliver alloy
Contact resistance	50m Ω Max.
Contact rating (resistive)	For "1 Form A": 0.2W or 0.45W Or "1 Form C": 0.45W "10": 10A/125, 250VAC 10A/30VDC "16": 16A/125, 250VAC 1/10HP 125, 277VAC
Switching power	4,000VA / 480W Max.
Switching voltage	AC 380V / DC 110V Max.
Insulation resistance	100M Ω Min. (500VDC)
Dielectric strength	750VAC (50Hz/min) Between open contacts 1,500VAC (50Hz/min) Between coil and contact
Shock resistance	10g Approx.
Vibration resistance	1.5mm Double amplitude 10-55Hz
Ambient temperature	-40°C to +85°C
Operation life	Mechanical: 5 x 10 ⁶ Electrical: 10 ⁵
Weight	9g Approx.

(Specifications are subject to change without notices.)

Dimensions

mm



Reference data

