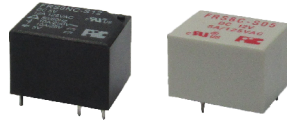


Power Relays

El.italia serie FW-FRS8

Features

Low cost, high reliable
Small size and light weight
Print circuit terminal, fit grid with 2.54mm
Switching capacity up to 12A
Dust cover or wash tight type



Part number: E141516(N)

Reference: R9858273 / R50149969

Ordering information

FRS8 C - S 10 DC12V E					
1	2	3	4	5	6
1 Relay model: FRS8 (2,000Vrms dielectric strength); FRS8N (4,000Vrms dielectric strength)			5 Rated voltage		
2 Contact arrangement: A: 1 Form A; C: 1 Form C			6 Insulation standard: NIL: B Class; F: F Class		
3 Construction: NIL: Dust cover; S: Wash tight type			Note: RoHS : RoHS compliant relay		
4 Contact rating: 5 : 5A; 10 : 10A;			RoHS-I : AgNi contact		
12: 12A (12A 125VAC / 10A 240VAC)			RoHS-N: AgSnO ₂ contact		

Coil rating

Rated voltage (V)	Coil resistance $\Omega \pm 10\%$	Rated current (mA)	Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W) Approx.	Operate time (ms)	Release time (ms)
			% of rated voltage (at 20°C)					
3	20	150	75 Max.	10 Min.	130 Max.	0.45	<7	<4
5	55	91						
6	80	75						
9	180	50						
12	320	37.5						
24	1280	18.7						
48	5120	9.3						

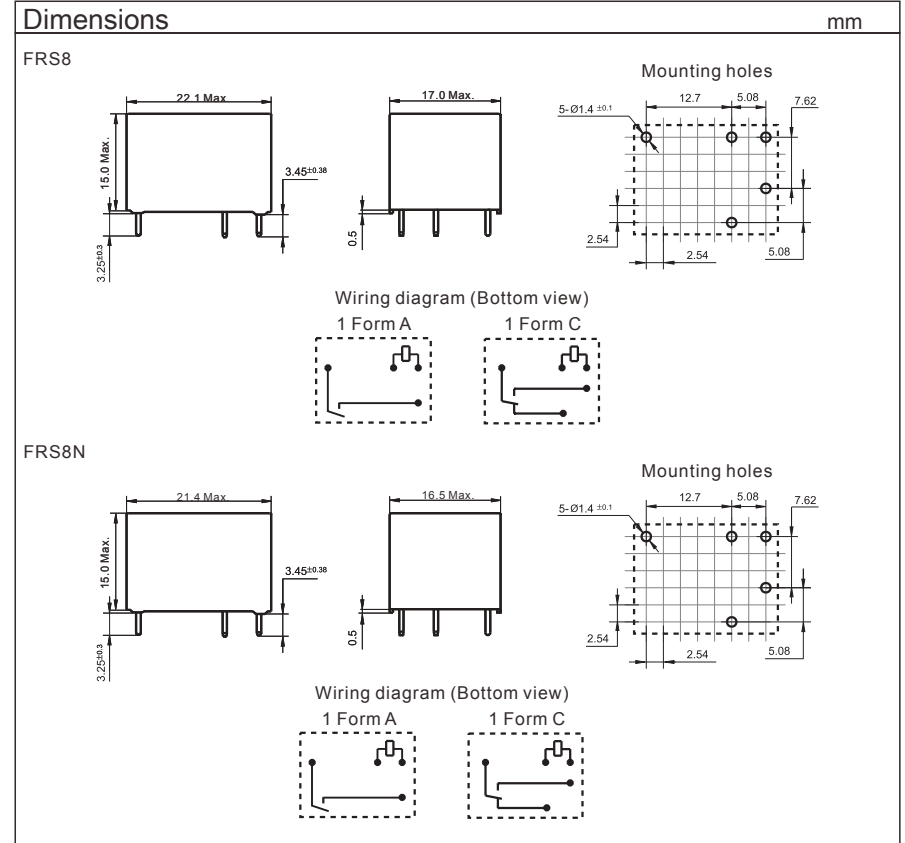
CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Characteristics

Contact arrangement	SPST (1 Form A); SPDT (1 Form C)
Contact material	Silver alloy
Contact resistance	50m Ω Max.
Contact rating (resistive)	5 : 5A 125VAC 28VDC 10 : 10A 125VAC/28VDC 12 : 12A 125VAC/28VDC; 10A 240VAC/28VDC; 6A 300VAC/28VDC N.O.: 1/6HP 2.2FLA 13.2LRA 240VAC (FRS8N: 1/3HP 120VAC) 1/10HP 3FLA 18LRA 120VAC 48VA pilot duty 24VAC N.C.: 1/10HP 1.5FLA 6LRA 240VAC 2FLA 12LRA 120VAC 25VA pilot duty 24VAC TUV rating: 10A 250VAC/28VDC
Switching power	2,400VA / 336W Max.
Switching voltage	AC 380V / DC 110V Max.
Insulation resistance	500M Ω Min. (500VDC)
Dielectric strength	1,000VAC (50Hz/min) Between open contacts FRS8 : 2,000VAC (50Hz/min) Between coil and contact FRS8N: 4,000VAC (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	10 ⁷
	Electrical	10 ⁵ (at rated load)
Weight		11g Approx.

(Specifications are subject to change without notices.)



Reference data

