Automotive Relays

El.italia serie FW-FRS10M

Features

Subminiature light weight relay 15Amp continuous contact rating 105°C Low coil power consumption 20A, 16VDC switching rating Wash tight type is available



Ordering information

$\frac{\text{ERS10M}}{1} \underbrace{\text{C}}_{2} - \underbrace{\text{S}}_{3} \underbrace{1}_{4} - \underbrace{\text{DC12V}}_{5}$					
1 Relay model	5 Rated voltage				
2 Contact arrangement: A: 1 Form A; C: 1 Form C	Note: RoHS : RoHS compliant relay				
3 Construction: NIL: Dust cover; S: Wash tight type	RoHS-I : AgNi contact				
4 Power consumption: NIL: 0.8W; 1: 0.64W	RoHS-N: AgSnO ₂ contact				

Coil rating

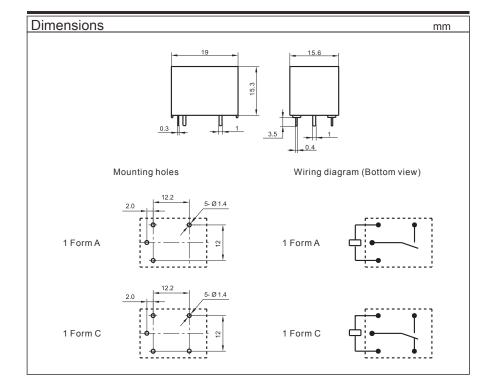
Rated voltage	resis	oil tance 10%	cur	ted rent nA)	Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W)	Operate time	Release time
(V)	FRS10M	FRS10M-1	FRS10M	FRS10M-1	% of rated voltage (at 20°C)			Approx.	(ms)	(ms)
6 12 24	45 180 720	56 225 900	133.3 66.6 33.3	107 53.5 26.7	FRS10M: 60 Max. FRS10M-1: 65 Max.	FRS10M: 10 Min. FRS10M-1: 5 Min.	130 Max.	FRS10M: 0.8 FRS10M-1: 0.64	<10	<5

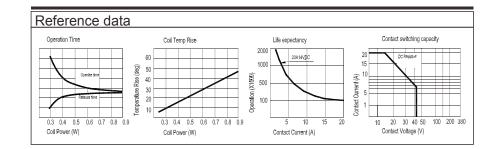
CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay. 2. Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Characteristics

Contact arrangen	nent	SPST (1 Form A); SPDT (1 Form C)					
Contact material		Silver alloy					
Contact resistance	e	50mΩ Max.					
Contact rating (re	sistive)	20A 16VDC					
Switching power		280W Max.					
Switching voltage		DC 75V Max.					
Insulation resistance		250MΩ Min. (500VDC)					
Dielectric strength		500VAC (50Hz/min) Between open contacts					
-		500VAC (50Hz/min) Between coil and contact					
Shock resistance		10g Approx.					
Vibration resistance		1.5mm Double amplitude 10-55Hz					
Ambient temperature		-40°C to +105°C					
Humidity		85% RH, 40°C					
Operation life	Mechanical	10 ⁷					
	Electrical	10 ⁵ (at rated load)					
Weight		10g Approx.					
10 10 11							

(Specifications are subject to change without notices.)





Forward Industrial Company

