Automotive Relays

El.italia serie FW-FRC11

Features

Small size and high contact rating High temperature design Ideal for use in automotive control Metal cover & direct coupling type



Ordering information

$\frac{\text{ERC11}}{1} \frac{\text{A}}{2} - \frac{2}{3} \frac{\text{N}}{4} \frac{\text{DC12V}}{5}$					
1 Relay model	5 Rated voltage				
2 Contact rating: A: 1 Form A	Note: RoHS : RoHS compliant relay				
3 Mounting terminal: NIL: Plain dust cover type;	RoHS-I : AgNi contact				
2 : Metal bracket dust cover	RoHS-N: AgSnO ₂ contact				
4 Coil suppression: NIL: Standard type; N: With diode;					
R : With resistor					

Coil rating

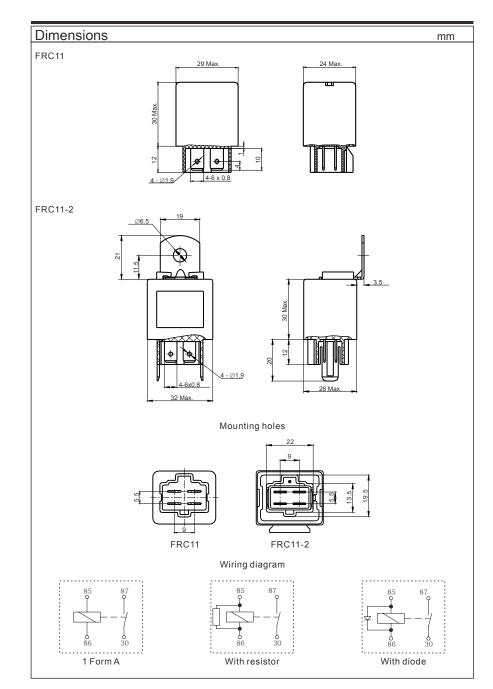
Rated voltage	Coil resistance	Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W)	Operate time	Release time
(V)	Ω+/-10%	% of rated voltage (at 20°C)			Approx.	(ms)	(ms)
12 24	100 384	65 Max.	5 Min.	150 Max.	1.5	<10	<7

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)		
Contact material		Silver alloy		
Contact resistance		50mΩ Max.		
Contact rating (resistive)		40A 14VDC		
Switching power		560W Max.		
Switching voltage		DC 75V Max.		
Insulation resistance		100MΩ Min. (at 500VDC)		
Dielectric strength		500VAC (50Hz/min)		
Shock resistance		20g Approx.		
Vibration resistance		1.5mm Double amplitude 10-40Hz		
Ambient temperature		-40°C to +85°C (Special request: +105°C)		
Humidity		85% RH, 40°C		
Operation life	Mechanical	10 ⁶		
	Electrical	10 ⁵		
Weight		FRC11: 35g Approx.; FRC11-2: 38g Approx.		

(Specifications are subject to change without notices.)



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