Power Relays

Features

Miniature 20A switching capabilities 4.5KV dielectric coil to contact Heavy load up to 5,000VA Applicable to motor switching PCB & QC terminal



caus: E139468

Ordering information					
ERA7 I A DC12V					
1 Relay model	4 Rated voltage				
2 Termination: NIL: PCB type;	Note: RoHS : RoHS compliant relay				
T : PCB & quick connect type	RoHS-I : AgNi contact				
3 Contact arrangement: A: 1 Form A	RoHS-N: AgSnO ₂ contact				

Coil rating

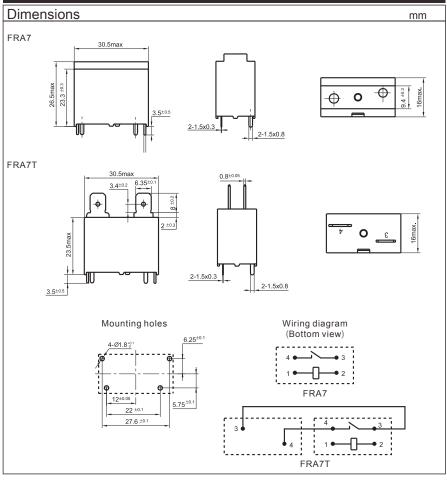
Rated voltage	Coil resistance	Rated current	Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W)	Operate time	Release time
(V)	Ω+/-10%	(mA)	% of rated voltage (at 20°C)			Approx.	(ms)	(ms)
5	27.8	180						
12	160	75	70 Max.	10 Min.	130 Max.	0.9	<20	<10
24	640	37.5						

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 arrangement		SPST (1 Form A)				
Contact material		Silver alloy				
Contact resistance		30mΩ Max. (Measured at 1A 24VDC)				
Contact rating (resistive)		Rate load :20A 250VAC; 1HP 120VAC; 2HP 240VAC Motor load: Inrush 80A 0.3S (Cos∅=0.7) Break 20A (Cos∅=0.9) (TÜV - Pending *rating: 20A 250VAC Cos∅: 0.9)				
Switching power		5,000VA Max.				
Switching voltage		AC 300V Max.				
Insulation resistance		1,000MΩ Min. (500VDC)				
Dielectric strength		1,000VAC (50Hz/min) Between open contacts				
		4,500VAC (50Hz/min) Between coil and contact				
Shock resistance		Functional : 196m/s ²				
		Destructive: 980m/s ²				
Vibration resistance		1.5mm Double amplitude 10-55Hz				
Ambient temperature		-25°C to +70°C				
Humidity		85% RH, 40°C				
Operation life	Mechanical	2 x 10 ⁶				
	Electrical	10 ⁵ (at rated load)				
Weight		23g Approx.				

(Specifications are subject to change without notices.)



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