FORWARD RELAYS



JZC-22F₄

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△ R50631259

 $22 \times 16.2 \times 20.8$

Features

- Small size, light weight, low coil power consumption.
- Switching capacity can reach 32A/277VAC.
- High dielectric strength.
- Contact gap ≥ 2.1mm.
- PC board mounting is available.
- High-performance power relay, suitable for photovoltaic systems (solar-inverters), automotive applications, motor control, compressor control, and home appliances.

Ordering Information JZC-22F₄ T 12VDC 1 Part number: JZC-22F2 4 Contact rating: 32A/277VAC 2 Enclosure: S: Wash tight; F: Flux proof 5 Coil power: T:2.8W; H:1.67W; L:1.2W 3 Contact arrangement: A:1A 6 Coil rated voltage(V): DC:5,9,12,24,48 7 Resist heat class: NIL:Standard; F:155℃

Contact Data

Contact Arrai	ngement	1A(SPSTNO)			
Contact Material		AgSnO ₂	AgSnO ₂		
Contact Rating		32A/277VAC	32A/277VAC		
Max. continuous current ¹⁾		40A (at 70°C,65%of rated	50A (at 55°C,65% of rated voltage) 40A (at 70°C,65% of rated voltage) 32A (at 105°C,65% of rated voltage)		
Max. Switching Power		8864VA			
Max. Switching Voltage		400VAC	Max. Switching Current:32A		
Contact Resistance		≤100m Ω	Item 4.12 of IEC 61810-7		
Operation	Electrical	1×10⁴ 1×10⁴(1.67W 105℃)	Item 4.30 of IEC 61810-7		
Life	Mechanical	5×10 ⁵	Item 4.31 of IEC 61810-7		

CAUTION: 1). The relay is mounted on the PCB, the coil is applied with 100% rated voltage for 200ms, the coil excitation voltage is reduced to 65% of the rated voltage.

Coil Parameter

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Dash numbers	Coil voltage VDC		Coil resistance Ω±10%	Pick-up voltage VDC(max) (80%of rated	Drop-out voltage VDC(min) (5% of rated	Coil power W	Operate time ms	Release time ms
	Rated	Max.		voltage)	voltage)			
009-2800	9	11.7	28.9	7.2	0.45			
012-2800	12	15.6	51.4	9.6	0.6	2.8	≤15	≤10
024-2800	24	31.2	205.7	19.2	1.2			
005-1670	5	6. 5	14.97	4	0.25			
009-1670	9	11.7	48.5	7.2	0.45			
012-1670	12	15.6	86.2	9.6	0.6	1.67	≤15	≤10
024-1670	24	31.2	344.9	19.2	1.2			
048-1670	48	62.4	1379.6	38.4	2.4			
005-1200	5	6.5	20.8	4	0.25			
009-1200	9	11.7	67.5	7.2	0.45			
012-1200	12	15.6	120	9.6	0.6	1.2	≤15	≤10
024-1200	24	31.2	480	19.2	1.2			
048-1200	48	62.4	1920	38.4	2.4			

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. 3.Coil holding voltage is 36% of nominal voltage after applying nominal voltage for 200 ms.

Characteristics

Insulation Resistance	1000M Ω min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength		
Between Contacts	50/60Hz 2000V 1min	Item 4.9 of IEC 61810-7
Between Contact and Coil	50/60Hz 4000V 1min	Item 4.9 of IEC 61810-7
Shock Resistance	Functional: 98m/s ²	Item 4.26 of IEC 61810-7
	Destructive: 980m/s ²	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~55Hz Double amplitude 1.5mm	Item 4.28 of IEC 61810-7
Terminals Strength	10N	Item 4.24 of IEC 61810-7
Ambient Temperature	-40℃~105℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	16g	Item 4.7 of IEC61810-7

Safety Approvals

Safety approval	UL&CUR	TÜV
Load	32A/277VAC,250VAC	32A/277VAC,250VAC

Dimensions mm 22max. 16.2max. 2×0.5×0.5 Dimensions Dimensions Wiring diagram (Bottom view)

CAUTION: In case of no tolerance shown in outline dimension: outline dimension ≤1mm,tolerance should be±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be±0.3mm; outline dimension >5mm, tolerance should be±0.4mm.