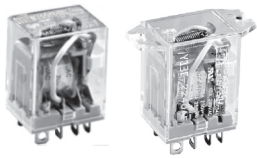
元则继电器
YUANZE RELAY
PRINCIPLE MASTERING THE FUTURE

Miniature High Power Relay Y13F-1Series



Features

- Long service endurance,high reliability.
- Low coil power consumption with high sensitive.
- 1 pole and 2 poles types available with switching current 15A (1 pole)and 10A (2 poles).
- PCB terminal,socket and flange case types available for different mounting consideration.

Safety Approval

UL，TUV，CQC

Contact Capacity

Model	Y13F–1	Y13F–2
Nominal Switching Capacity	15A 250VAC	10A 250VAC
Max.swithing current	15A	10A
Max.swithing voltage	250VAC	250VAC
Max.swithing power	3,750VA	2,500VA

Characteristic Data

Contact material	Silver alloy	
Initial contact resistance(at6VDC 1A)	50MΩ Max.	
Operate time(at nominal volt)	25msec. Max.	
Release time(at nominal volt)	25msec. Max.	
Initial insulation resistance	500MΩ Min.(DC500V)	
Initial dielectric strength	Between open contacts: AC1,000V,50/60HZ 1Min.	
	Between coil and contacts: AC5,000V,50/60HZ 1Min.	
Vibration resistance	Functional	10-55 HZ at double amplitude of 1.5mm
	Destructive	10-55 HZ at double amplitude of 1.5mm
Shock resistance	Functional	10G Min.
	Destructive	100G Min.
Endurance(operations)	Mechanical(at 7,200ps.h)	10,000,000 times
	Electrical(at 600ps.h)	100,000 times
Ambient temperature	–25℃ ~ +70℃(no condensation)	
Unit weight	Approx.37.0g	

Coil Data(at 20℃)

Nominal voltage (VDC)	Nominal operating current ±10% (mA)		Coil resistance ±10% (Ω)	Allowable voltage (Max.)	Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
	50Hz	60Hz					
6 VAC	220.0	170.0	11.5	110%of nominal voltage	80%of nominal voltage	30%of nominal voltage	1.0-1.3VA
12 VAC	110.0	85.0	46				
24 VAC	60.0	45.0	165				
48 VAC	30.0	23.0	735				
110/120 VAC	13.5	11.5	4,430				
220/240 VAC	6.0	5.0	14,400				
6 VDC	150.0		40	110%of nominal voltage	75%of nominal voltage	10%of nominal voltage	0.90W
12 VDC	75.0		160				
24 VDC	36.9		650				
48 VDC	18.5		2,600				
110 VDC	10.0		11,000				

Note: Specifications and dimensions in this catalog are subjected to change without notice.

Safety Approval Ratings

Approval	CQC	VDE	UL/CUL
Approval ratings	1 pole: 15A 250VAC 2 poles: 10A 250VAC	1 pole: 15A 250VAC 15A 30VDC 2 poles: 10A 250VAC 10A 30VDC	1 pole: 15A 240VAC, Resistive 15A 24VDC, Resistive 7A 250VAC, General use 2 poles: 10A 240VAC, Resistive 10A 24VDC, Resistive 5A 240VAC, General use

Ordering Information

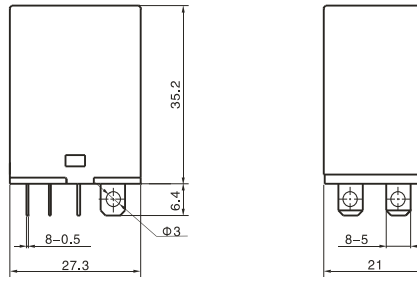
Nomenclature

Y13F – 2 12 D M T – F D –XX

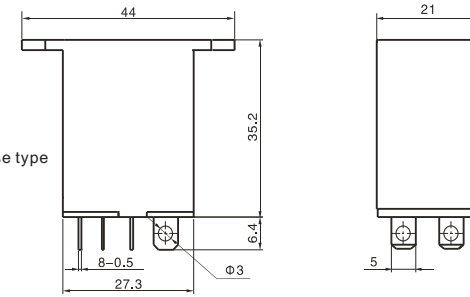
- Special Parameter: Nil-Standard type; Letter or number-Special requirement
- Accessory Form:Nil-Without accessory,D-With diode
- Insulation Systerm:Nil-Standard,B-ClassB,F-ClassF
- Terminal Type:P-PCB,T-Socket,F-Flange case
- Contact Form: M-Form A Nil-Form C
- Coil Power: D-DC,A-AC
- Coil Voltage: DC-,06,12,24, 48,110;AC-06,12,24,48,110,220
- Number of Pole: 1-1 Pole,2-2 Poles
- Type Designation: Y13F-1

Outline Dimensions,Wiring Diagram,Mounting Holes(Unit:mm)

Socket type

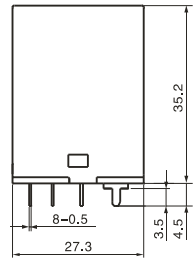


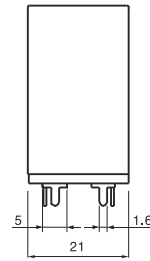
Flange case type

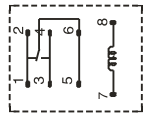


Unless otherwise specified:
<1mm,tolerance,±0.2mm;
1-5mm,tolerance,±0.3mm;
>5mm,tolerance,±0.4mm;
Note: 1. Extended terminal dimension is dimension before soldering.
2. Tolerance of PCB layout: ±0.1mm

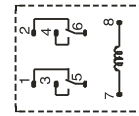
PCB type







1c



2c

Wiring Diagram(bottom view)

Unless otherwise specified:
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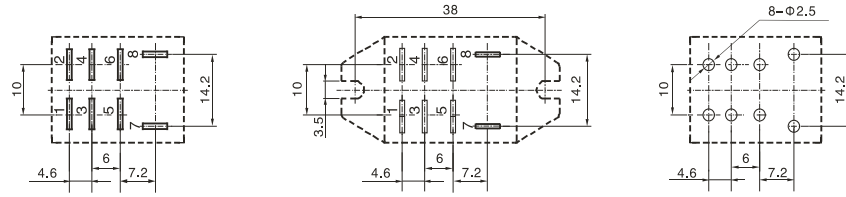
Note: 1. Extended terminal dimension is dimension before soldering.
2. Tolerance of PCB layout:±0.1mm



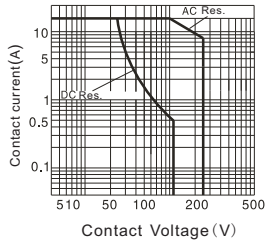
Mounting Holes(bottom view)

Typical Applications

- Automat
- Control apparatus
- Office equipment
- Home appliances,cooking appliances.

Characteristic Curves

Max.Switching power(1C)



Max.Switching power(2C)