

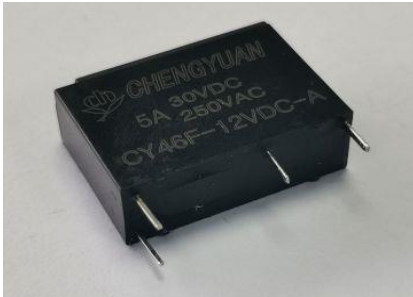


盛元继电器 CHENGYUAN RELAY

CY46F

小型功率继电器

Miniature Power Relay



特点Features

- 小型 (20*7.2*16.6mm), 适用于高密度电路板
Small size (20*7.2*16.6mm), for high density PCB mounting
- 高耐压: 4000V (线圈触点间)
High breakdown voltage: 4000V(between coil and contact)
- 5A 触点切换能力
5A contact switching capability.

触点参数 Contact Data

型号 Type	CY46F
触点材料 Contact material	银合金 Silver alloy
接触电阻 Contact resistance	100mΩ Max.(at 1A 16VDC)
额定负载 (阻性) Rated load (Resistive load)	5A250VAC
最大切换电流 Max. switching current	5A
最大切换电压 Max. switching voltage	250VAC
最大切换功率 Max. switching power	1250VA
最小切换负载 Min. switching load	6V 1A

性能参数 Characteristics

吸合时间 (额定电压) Operate time (at rated coil voltage)	20ms Max. (不加二极管 No diode)	
释放时间 Release time	10ms Max. (不加二极管 No diode)	
绝缘电阻 Insulation resistance	Min 1000MΩ (at 500VDC)	
介质耐压 Dielectric strength	触点与触点间 Between open contacts:	750VAC, 50/60Hz for 1min
	触点与线圈间 Between coil and contact :	4000VAC , 50/60Hz for 1min
抗振动 Vibration resistance	耐久 Destructive	10-55Hz, 双振幅 1.5mm 10-55Hz ,at double amplitude of 1.5 mm
	误动作 Functional	10-55Hz, 双振幅 1.5mm 10-55Hz ,at double amplitude of 1.5 mm
抗冲击 Shock resistance	误动作 Functional	10G Min
	耐久 Destructive	10G Min
寿命 Endurance	机械寿命 (每小时10800次, 室温) Mechanical endurance (10800ops./h)	10,000,000次 10,000,000 ops.(at room temperature)
	电气寿命 (每小时360次, 室温) Electrical endurance (360ops./h)	100,000次 100,000 ops.(at room temperature)
环境温度 Ambient atemperature	-40°C ~ +85°C (不冷凝 no condensation)	
重量 Weight	约 3.9g Approx. 3.9g	

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Version:V2010.20

线圈参数 Coil Data (at 20°C)

额定电压 (VDC) Nominal voltage (VDC)	额定电流 ±10%(mA) Nominal operating current ±10%(mA)	线圈电阻 ±10%(Ω) Coil resistance ±10%(Ω)	额定功率 Nominal operating power	吸合电压(Max.) Operate voltage (Max.)	释放电压 (Min.) Release voltage (Min.)	最大连续外加电压 Max. allowable voltage
5	40	125	约0.20W Approx 0.20W	额定电压的75% 75% of nominal voltage	额定电压的5% 5% of nominal voltage	额定电压的130% 130% of nominal voltage
6	33.33	180				
9	22.22	720				
12	16.67	405				
18	11.11	1620				
24	8.33	2880				
5	72	69	约0.36W Approx 0.36W	额定电压的75% 75% of nominal voltage	额定电压的5% 5% of nominal voltage	额定电压的130% 130% of nominal voltage
6	60	100				
9	40	225				
12	30	400				
18	20	900				
24	15	1600				

上述值为初始值，请勿在产品上连续施加最大电压>10min，以免线圈过度发热。

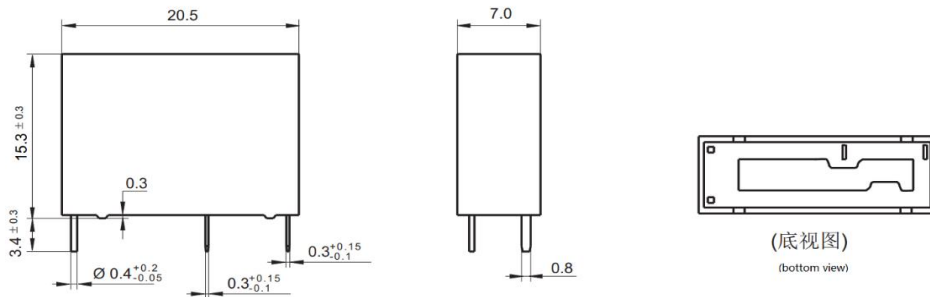
The data shown above are initial values. Do not apply maximum allowable voltage on coil for more than 10 minutes to avoid overheating of the coil.

外形尺寸图、接线图、安装孔位图 (单位: mm)

Outline dimension, Wiring diagram, PCB layout (Unit:mm)

外形图

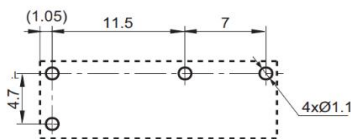
Outline dimension



安装孔尺寸

(底视图)

P.C.B.LAYOUT (bottom view)



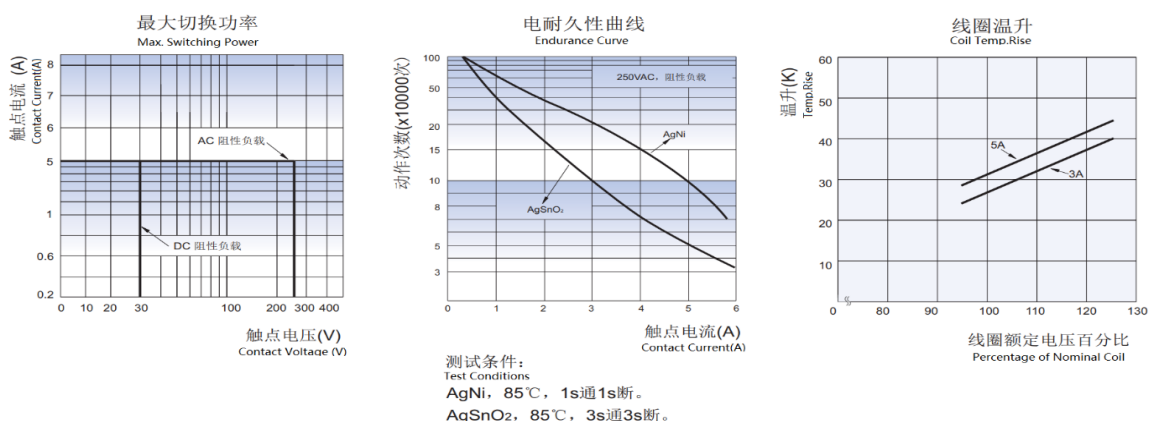
接线图

(底视图)

Wiring Diagram (bottom view)



性能曲线图 Characteristic Curves



典型用途 Typical Applications

通讯设备 Telecommunication equipment

安全设备 Safety equipment

办公室设备 Office equipment

家用电器: 空调, 微波炉等 Home appliances: air conditioner, microwave oven, etc.

订货标记 Ordering Information

CY46F - 1 - A - 12VDC - D - T - XX
1 2 3 4 5 6 7

- 1: 型号Type: CYF3
- 2: 触点组数Number of Poles: 1-1Pole
- 3: 触点形式Contact Arrangement: C From C ; H From A ; B From B
- 4: 额定电压Nominal Voltage: 5,6,9,12,18,24VDC
- 5: 线圈功耗Coil Pwor: D-0.36W L-0.2W
- 6: 封装形式Protective Construction: S-塑封式Flux proofed,
SH-防水式 Sealed type washable
- 7: 特殊参数Special Parameter:无-标准型 Nil-Standard type
字母或数字-特殊要求Letter or number-Special requirement

(1):塑封式不能在污染环境 (含有H₂S, SO₂, NO₂, 粉尘等污染特) 中使用。

Flux-proof relays can not be used in the environment with pollutants like H₂S, SO₂, NO₂, dust,etc.

(2): 塑封式装入PCB焊接后, 不能进行整体清洗或表面处理。

Water cleaning or surface process is not suggested after the flux-proof relays are assembled on PCB.

(3):客户特殊要求 (XX), 由我司评估后, 按特性符号标识。

Customized special suffix is available after being evaluated by CHENGYUAN.

声明: 本产品规格书仅供客户使用时参考, 若有更改, 恕不另行通知。

对盛元而言, 不可能评定继电器在每个具体应用领域的所有性能参数要求, 因而客户应该根据具体的使用条件选择与之相匹配的产品。对于密封继电器在安装清洗后, 使用前请打开外壳上的透气孔。若有疑问, 请与盛元联系获得更多的技术支持。但产品选型责任仅由客户负责。

Disclaimer: The specification is for reference only . Specifications are subject to change without prior notice.

We could not evaluate all the performance and all the parameters for every possible applications . Thus the users should in a right position to choose suitable product for their own application. For sealed relays, after installation and cleaning, please open the ventilation hole in the case before use . If there is any query , please contact Chengyuan for technical services. However it is the user's responsibility to determine which product should be used.