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Page: 1

1. 安全认证:

C-UL CQC TUV **Safety Standard:**

2. 接点规格:

Contact Specification:

2.1 接点间隙: 最小 0.25 mm。 0.25 mm Minimum. Contact Gap:

初始值最大 100mΩ; 2.2 接点阻抗:

> 流通电流 1A、开路测试电压: 6VDC; Contact Resistance

> > 使用电压下降法量测。

Maximum $100m\Omega$ at initial value.

Test Current: 1A, Open Circuit Test Voltage: 6VDC.

By using Voltage Drop Method.

2.3 接点容量: 250VAC Cosφ=1, 可通过电流为3安培。

30VDC,可通过电流为3安培。 Contact Capacity:

3 Amps at 250VAC Cos φ =1.

3 Amps at 30VDC

3. 摄氏 20 度之线圈规格: Coil Specification at 20

°C:

3.1	额定电压:	3VDC.	5VDC.	6VDC.	9VDC.	12VDC.	24VDC.
2.2	Rated Voltage:	F0/07/400	00.0./40/70	05/00 0/00	40 7/00 5/40	40 5/40 7/00	0.05/0.0/45
3.2	额定电流:(mA±	50/67/120	29.9 /40/72	25/33.3/60	16.7/22.5/40	12.5/16.7/30	6.25/8.3/15
	10%)						
	Nominal Current:						
3.3	额定消耗功率: (±	0.15W/0.2W0.36W					
	10%.)						
	Rated Power						

Consumption:

3.4 线圈阻抗: (Ω± 10%.) 60/45/25 |167/125/70|240/180/100|540/400/220|960/720/400|3840/2880/1600 Coil Resistance:

≦ (当电压渐渐施加于继电器时接点之动作电压,为额定电压之75%) 3.5 感动电压:

V DC Pull In Voltage: ≦ (Contact operating voltage when voltage is gradually applied. It is 75% of

the Rated Voltage) V DC

3.6 开放电压: ≧ (当额定电压渐渐的减少时接点放开之电压,为额定电压之 10%) VDC

≧ (Contact breaking voltage when rated voltage is gradually reduced. It is Drop Out Voltage:

10% of the Rated Voltage) VDC

3.7 最大应加电压: (为额定电压之 130%) V DC

(130% of the Rated Voltage) V DC Max. Allowable

Voltage:

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HK4100F

Page: 2

3.8 动作时间: 在施加额定电压时最大为 6 milliseconds。

Operate Time: 6 milliseconds Maximum when rated Voltage is applied.

3.9 开放时间 在额定电压突然消失时最大为 4 milliseconds.。

Release Time: 4 milliseconds Maximum when rated Voltage is suddenly cut off.

3.10线圈温升: 在空载时线圈施加最大可允许电压, 待温度稳定后量测的温度不可超过40℃。

Coil Temperature (不包含环境温度) Rise: 40℃ Maximum.

Maximum Allowable Voltage is applied to Coil while no load should be applied to Contacts, then the temperature should be measured when the value is

stabilized. Environment temperature should not be included in.

4. 电气特性:

Electrical Characteristics:

4.1 使用寿命:

Life Expectancy:

4.1.1 电气寿命: 3A/250VAC Cosφ=1, 施加额定电压时, 有 100,000 次以上之电气寿命。

Electrical Life: 3A/30VDC, 施加额定电压时,有100,000次以上之电气寿命。

100,000 operations Minimum at 3A/250VAC Cos ϕ =1.

100,000 operations Minimum at3A/30VDC

Rated Voltage is applied.

4.1.2 机械寿命: 在无负载的情况下有 10,000,000 次以上之机械寿命。

Mechanical

Life:

10,000,000 operations Minimum at No Load condition.

4.1.3 最大操作频率 电气: 每分钟 30 次。 Maximum 机械: 每分钟 300 次。

Operating Electrical: 30 operations/minute.
Frequency: Mechanical: 300 operations/minute.

4.2 介质耐压:

Dielectric Strength:

4.2.1 接点对接点间: 500VAC, 50/60 Hz,漏电流小于 1mA,持续一分钟。

Between 500VAC at Test Frequency 50/60 Hz, Leakage Current: 1mA for 1 minute.

Contacts:

4.2.2 线圈对接点间: 1,000VAC,50/60 Hz,漏电流小于1mA,持续一分钟。

Between Coil & 1,000VAC at Test Frequency 50/60 Hz, Leakage Current: 1mA for 1 minute.

Contact:

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Page: 3

4.3 绝缘阻抗: 在施加 **500VDC** 绝缘阻抗之量测值需 ≥ **100 M**Ω。

Insulation $\geq 100 \text{ M}\Omega \text{ Minimum}.$

Resistance: A Voltage of 500VDC should be applied after which measurement shall be

made.

4.4 振动测试:

Vibration

4.4.1 振动 I (强度): 在无激磁状态下双振幅宽度为 1.5mm, 震动频率在一分钟内由

Endurance I: 10HZ~55HZ~10HZ。XYZ 各方向各进行 2 小时,共六小时,实验后外观构造不

可异常,且电气功能需符合规格之要求。

The Coil shall be maintained under not energized condition, double amplitude 1.5 mm, the entire frequency range changes from 10 to 55 Hz then returns to 10 Hz shall be made in 1 minute. This motion shall be applied for a period of 2 hours in each of 3 mutually perpendicular axis (a total of 6 hours) There should not be any deformations in construction and in appearance, while the

Electrical Specifications should be fulfilled after the test.

4.4.2 振动Ⅱ(稳定性): 在激磁状态下双振幅宽度是 1.5mm, 震动频率在一分钟内由

Endurance II (Error Operation):

10HZ~55HZ~10HZ。XYZ 各方向进行 5 分钟,实验中不得有误(接点断开时间不可超过 1 mS)。实验后外观,构造不可异常,且电气功能需符合规格之要求。
The Coil shall be maintained under energized condition, double amplitude 1.5

The Coil shall be maintained under energized condition, double amplitude 1.5 mm, the entire frequency range changes from 10 to 55 Hz then returns to 10 Hz shall be made in 1 minute. This motion shall be applied for a period of 5 minutes in 3 mutually perpendicular axis. Malfunction is not allowed during the test (contact breaking time should be less than 1 millisecond) In addition, there should not be any deformations in construction and in appearance while

the Electrical Specifications should be fulfilled after the test.

4.5 冲击测试:

Shock:

4.5.1 耐冲击性 I (强 度): 在无激磁状态加速度 1000m/s²冲击情况下, XYZ 各方向进行 5 次, 实验后外

观,构造不可异常,且电气功能需符合规格之要求。

Endurance I: Peak Acceleration: 1000m/s²

The Coil shall be maintained under not energized condition, 5 successive shocks shall be applied in 3 mutually perpendicular axis. There should not be any deformations in construction and in appearance while the Electrical

Specifications should be fulfilled after the test.

4.5.2 耐冲击性 Ⅱ (稳

定性):

在激磁状态加速度 100m/s²冲击情况下, XYZ 各方向进行 2次,实验中不得有误(接点断开时间不可超过 1 mS),实验后外观,构造不可异常,且电气功能需

Endurance II 符合规格之要求。

(Error Peak Acceleration: 100m/s²

Operation): The Coil should be maintained under energized condition, 2 successive

shocks shall be applied in 3 mutually perpendicular axis. Malfunction is not allowed during the test (contact breaking time should be less than 1

millisecond) In addition, there should not be any deformations in construction and in appearance while the Electrical Specifications should be fulfilled after

the test.

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Page: 4

5. 环境特性:

Environmental Characteristics:

5.1 温度范围:

Temperature Range:

5.1.1 使用温度范围:

 $-25 \text{ to } + 70^{\circ}\text{C}_{\odot}$

Operating Temperature Range:

使用温度范围是代表继电器在线圈之动作电压范围内可以持续动作的温度范围

(在低温时无水滴凝结现象)

Operating temperature range is the range of ambient temperature of which the Relay can be operated continuously within operative voltage range of coil (no condensation of water drops under low temperature condition)

5.1.2 储存温度范围:

 $-25 \text{ to } + 70^{\circ}\text{C}.$ Storage

Temperature Range:

储存温度范围是代表继电器在没有损伤的情况下可以被储存的温度范围(在低温 时无水滴凝结现象)。储存的情况在本 SPEC 其它地方所示。

Storage temperature range is the range of ambient temperature of which the Relay can be stored without damages (no condensation of water drops under low temperature condition). Conditions are as specified elsewhere in these specifications.

5.2 湿度范围:

35~85% RH.

Humidity Range:

53 耐寒性:

Cold Resistance:

5.3.1 使用耐寒性:

Cold

保持原状态操作回路上给予定格电压实验时继电器动作要正常。(在低温时无水

Resistance in Use:

Relay should be kept in temperature chamber at $-30 \pm 2^{\circ}$ C for two hours that no current or voltage shall be supplied to Relay. Such condition shall be maintained while the rated voltage is supplied to Relay, then the Relay shall operate normally. (No condensation of water drops under low temperature

继电器不给予电压或电流状态下,在恒温箱以-25 ± 2°C的温度连续保持 2 小时。

condition)

5.3.2 储存耐寒性:

Storage Cold Resistance:

继电器在恒温箱以-25 ± 2°C 的温度连续保持72小时。接着,于常温常湿中消除 水滴 1 至 2 小时以后,进行构造,动作,及绝缘阻抗,耐压的测试,结果需要 符合 SPEC。(在低温时无水滴凝结现象)

Relay should be kept in temperature chamber at -40 \pm 2°C for 72 hours. Then the Relays shall be maintained at standard atmospheric condition for 1 to 2 hours after which measurement shall be made. Construction, Relay operation, Insulation Resistance and Dielectric Strength shall satisfy the specification requirements. (No condensation of water drops under low

temperature condition)

5.4 耐热性:

Heat Resistance:

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Page: 5

5.4.1 使用耐热性:

Heat

继电器操作回路提供定格电压,在接点部份提供定格电流的状态下,在恒温箱以70±2°C的温度连续保持2小时后,保持原状态进行继电器动作之测试,结果必须符合SPEC。

Resistance in

Use:

Relay should be kept in temperature chamber at $70 \pm 2^{\circ}$ C for two hours that rated Voltage should be supplied to Coil while rated Current should be supplied to Contacts. Such condition shall be maintained while the rated voltage is supplied to Relay, then Relay shall operate normally.

5.4.2 储存耐热性:

Storage Heat Resistance 继电器在恒温箱以 $70 \pm 2^{\circ}$ C 的温度连续保持 16 小时,在常温,常湿状态下,放置 1-2 小时后,进行构造,动作,及绝缘阻抗,耐压的测试,结果需要符合 SPFC。

Relay should be kept in temperature chamber at $70 \pm 2^{\circ}$ C for 16 hours. Then the Relays shall be maintained at standard atmospheric condition for 1 to 2 hours after which measurement shall be made. Construction, Relay operation, Insulation Resistance and Dielectric Strength shall satisfy the specification requirements.

5.5 耐湿性:

Moisture Resistance: 继电器以温度 40 ± 2°C 相对温度在 85%环境下连续保持 48 小时,接着,于常温常湿放置 1-2 小时后,进行构造,动作,及绝缘阻抗,耐压的测试,结果需要符合 SPEC。

Relay should be kept in temperature chamber at $40 \pm 2^{\circ}$ C (90~95% RH) for 48 hours. Then the Relays shall be maintained at standard atmospheric condition for 1 to 2 hours after which measurement shall be made.

Construction, Relay operation, Insulation Resistance, Dielectric Strength shall

satisfy the specification requirements.

6. 端脚特性:

Terminal

Characteristics:

6.1 端脚强度:

在水平方向负重300克持续1分钟,测试完成后端脚不能有任何的松脱或是弯

曲。

A load of 300g should be applied to the Terminal for one minute in horizontal direction. There should not be any looseness or bending of Terminals.

6.2 沾锡测试:

温度 230 ± 5 °C,时间 3 ± 0.5 秒,浸渍端子前端 3mm,须沾锡面积需达 90%

Soldering Dip Test: 以

Terminal Strength:

The front 3 mm of Terminal should be immersed for 3 ± 0.5 seconds at 230 \pm 5°C. Soldered area must be minimum 90% of the soldering surface.

6.3 沾锡耐热性: Soldering Heat 当端脚浸到 350°C 的锡炉内 3 秒钟时,继电器必须能符合所有的电气与机械规格之票或。只处现不会有办恋。

oldering Heat 格之要求,且外观不会有改变。

Resistance:

When the Terminal are immersed into soldering bath at 350 °C for 3 seconds, the Relay shall satisfy all electrical and mechanical specifications and must

not have excessive change in outside appearance.

7. 重量: 约 3.5 克 **Weight**: 约 3.5 克

8. 抽样检查标准: GB2828-2000 之抽样标准中,以一般检查水准 II 级 AQL – 0.4 为依据。

Sample Test Method: GB2828-2000 Level – General II, AQL 0.4.

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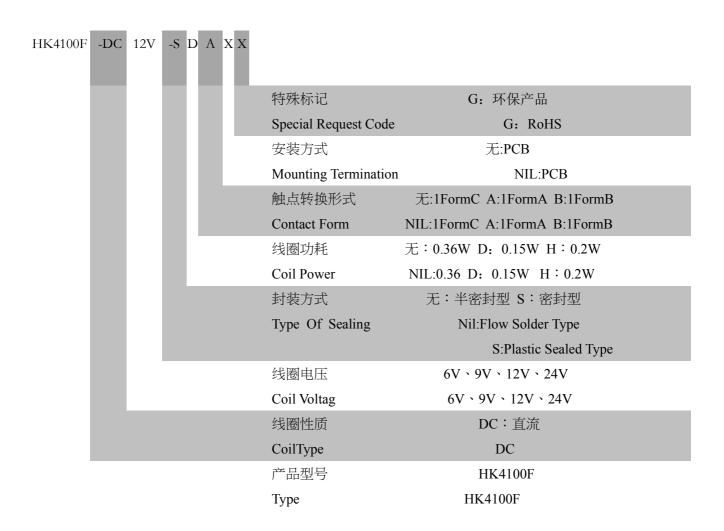


HK4100F

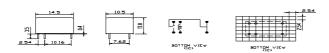
Page: 6

产品编号方式:

Ordering Information:



外型尺寸 (mm) Dimensin (mm)



Tolerance: ±0.3

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