KINGHOR SWITCH

PRODUCT SPECIFICATION 产品规格书

文件编号	FILE NO.	H5-A1-1C10W2-2-150-T174 (32A)	文件版次	EDITION	A. 1
产品编码	PART NO.	H5-A1-1C10W2-2-150-T174 (32A)			
产品描述	Product Name	Micro Switch			

1 General Characteristics 一般特性:

1. 1 Application: This specification is applied to the micro switch (H5) for general applications.

适用范围:该承认书指微动开关(H5)的一般使用范围。

1. 2 Operating Temperature Range: -25°Cto +85°C

使用温度范围: -25℃to +85℃

Preservative Temperature Range: -25 °C to +85 °C

保存温度范围: -25℃to +85℃

1. 3 Operating Relative Humidity: ≤85%RH

相对湿度: ≤85%RH

1. 4 Test Conditions: Unless otherwise specified, the atmospheric conditions for making measurements and tests are as follows:

实验条件: 若没有特别说明,则试验大气条件如下:

Ambient Temperature: 5~35℃ 环境温度: 5~35℃ Relative Humidity: 45~85% 相对湿度: 45~85%

Air Pressure: 86~106Kpa (860~1060mbar) 大气压力: 86~106Kpa (860~1060mbar)

2. Appearance, Structure and Dimensions 外观,结构及尺寸:

2. 1 Appearance: The switch shall have good finishing, and no rust, crack or plating defects.

外观: 产品外观良好,无锈蚀、裂纹和镀层缺陷。

2. 2 Structure & Dimensions: Refer to individual product drawing.

结构及尺寸: 参见产品图纸

2. 3 Markings: Refer to individual product drawing.

标识: 参见产品图纸。

	Datings	CERTIFICATION	RATING	LIFE CYCLES	FILE NO.
3.	Ratings 额定负荷		5A 125/250VAC 25T85	50, 000	

4. Electrical Characteristics 电气特性

No.	Item 项目	Criteria 标准	Test Method 实验方法		
4. 1	Insulation Resistance	100 MΩ min.	100VDC voltage is applied between each pair of terminals and between the terminal and the metal frame for $60\pm5S.$		
	绝缘电阻	100 MΩ min.	在相互绝缘的所有端子之间及各接线端子与外露的非载流金属零件之间加载100V直流电,持续时间60±5S。		
4 0	** 1 .	No dielectric breakdown shall occur.	1000VAC (50^60Hz, cut - off current 10mA) is applied between non-connected terminals and 1500VAC between terminals and the metal frame for 60 ± 5 s.		
4. 2	抗电强度 无击穿现象发生。				在相互绝缘的所有接线端子之间1000V(50-60Hz)交流电,各接 线端子与外壳或非载流金属零件之间加载1500V(50-60Hz)交流 电,持续时间60±5S。

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产品编码 PART NO. H5-A1-1C10W2-2-150-T174 (32A) 产品描述 Product Name Micro Switch	文件编号	FILE NO.	H5-A1-1C10W2-2-150-T174 (32A)	文件版次	EDITION	A. 1
产品描述 Product Name Micro Switch	产品编码	PART NO.	H5-A1-1C10W2-2-150-T174 (32A)			
	产品描述	Product Name	Micro Switch			

5. N	Mechanical Char	acteristics 机械特性	
No.	Item 项目	Criteria 标准	Test Method 实验方法
5. 1	Operating Force	See product drawing	Apply a tension load on the midpoint of the actuator (or 1mm to the tip of the shaft) to supply a pressure vertically from its free position to operating position.
	操作力	参见产品图纸	在操作元件中间(或在离操作元件末端1mm处)沿操作方向均匀施加静载荷,使操作元件转换到动作位置。
	Releasing Force	See product drawing	A static load shall be reduced to the tip of actuator in operating direction to change component from operating position to release position.
	回复力	参见产品图纸	在操作元件末端沿操作方向均刀减少静载荷,使操作元件从动作 位置转换到释放位置。
5. 3	Free position	See product drawing	The position where the actuator lead the Displacements when its out of force or the force is not enough to drive the actuator.
	自由位置参见产品图纸驱动件在不承受操作力以及不足以引起位移时所		驱动件在不承受操作力以及不足以引起位移时所处的位置
	Operating Position	See product drawing	The distance from the end of operating component to the center of mount hole when switch is being transformed
	操作位置	参见产品图纸	开关发生转换时,操作元件末端到开关安装孔中心的距离
5. 5	Pre Travels	See product drawing	The distance vertically through, which the midpoint of the actuator (or tip of the shaft) trip move from its free position to operating position.
	行程	参见产品图纸	从自由位置到动作位置的距离。
5. 6	Differential Travel	See product drawing	The distance from operating position to release position
	差程	参见产品图纸	从动作位置到释放位置的距离。
5. 7	Over travel	See product drawing	The displacements of actuator form operation to total travel position.
D. 1	超行程	参见产品图纸	驱动件从动作位置到全行程位置间的位移 .

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产品编码	PART NO.	H5-A1-1C10W2-2-150-T174 (32A)			
产品描述	Product Name	Micro Switch			

6. Durability characteristics

No.	Item 项目	Criteria 标准	Test Method 实验方法
6. 1	Mechanical Life	After test, Insulation resistance: $50M\Omega$ min. The electrical performance requirements specified in item 4.2 shall be satisfied. The switch shall be free from abnormalities in appearance construction. Operating force: within $\pm 30\%$ initialization value.	500,000 cycles of operation shall be performed continuously at a rate of 60 cycles per minute without load.
	机械寿命	实验后: 绝缘电阻: 50MΩ min. 电气性能应符合第4.2条的要求。 开关外观及结构应无损坏。 操作力变化为初始值的 ±30%。	在不带负荷的条件下,速度为60次/分,在寿命试验设备上连续转换500,000次。
6. 2	Operating Life with Load	After test, Insulation resistance: $10M\Omega$ min. The electrical performance requirements specified in item 4.2 shall be satisfied. The switch shall be free from abnormalities in appearance construction. Operating force: within $\pm 30\%$ initialization value.	IEC61058-1: 50,000 cycles of oper a shall be performed continuously at a rate of 15 cycles per minute with load as follow: Refer to individual product drawing (Resistive Load)
	负荷寿命	实验后: 绝缘电阻: 10MΩ min. 电气性能应符合第4.2条的要求。 开关外观及结构应无损坏。 操作力变化为初始值的 ±30%。	IEC61058-1: 在产品图纸标示负荷的下,在寿命试验设备上连续转换50,000次,15次/分。

7. Weather Proof Characteristics 耐候性能:

7. 1	Cold Proof	After testing at -25 \pm 2° C for 96 hours, the switch shall be allowed to stand under normal temperature and humidity conditions for 1 hour, and measurement shall be made within 1 hour after that. Water drops shall be eliminated.
	低温	试件在-25±2℃的温控箱内保持96小时,然后在正常温度和湿度下恢复1小时,并在此后1小时内对试品进行测量。水液应消失

下恢复1小时,并在此后1小时内对试品进行测量,水滴应消失。

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	文件编号	FILE NO.	H5-A1-10	C10W2-2-150-T174 (32A)	文件版次	EDITION	A. 1	
	产品编码	PART NO.	H5-A1-10	C10W2-2-150-T174 (32A)				
	产品描述	Product Name	Micro Sv	witch				
7. 2	Hot Proof	A.C		After testing at85± 2° (be allowed to stand under humidity conditions for made within 1 hour after	r normal to 1 hour, and	emperature	and	
	高温	After test, Insulation resistance:50MΩ Min. The Electrical performan	试件在85±2℃的温控箱内保持96小时,然后在正常恢复1小时,并在此后1小时内对试品进行测量,水泡					
7. 3	Moisture Resistance	requirements specified 4.2 shall be satisfied. switch shall be free freabnormalities in appearations.	The om	After testing at $40\pm~2^{\circ}$ C , $90^{\sim}95\%$ RH for 96 hours, the switch shall be allowed to stand under normal temperature and humidity conditions for 1 hour, and measurement shall be made within 1 hour after that. Water drops shall be eliminated.				
	恒定湿热	实验后: 绝缘电阻: 50MΩ Min. 电气性能应符合第4.2条的 开关外观及结构应无损坏。	要求。	试件在40±2℃,90-95%RH的 度和湿度下恢复1小时,并在 应消失。				
	Temperature Cycling	71 70 77 76 76 76 76 76 76 76 76 76 76 76 76		After 4 cycles of follow stay under normal tempera for 2 hours, and measure after that. Water drops	ature and hunent shall be ela	umidity concee made with iminated.	ditions hin 1 hour	
7. 4				试件按下述实验条件试验 4 复 2小时,并在此后 1小时				
	温度转换			+85 -20°C -25°C	38. 201- 			

8. Material List 材料清单

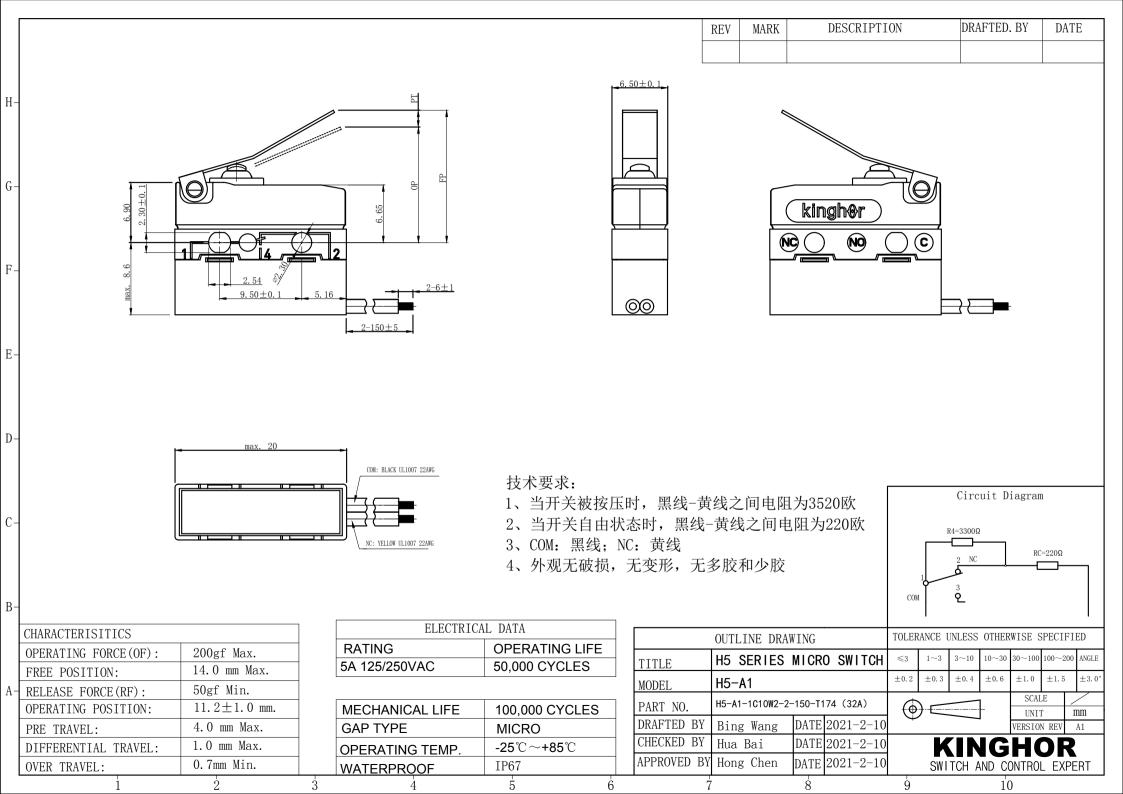
No. 序号	零部件名称 Parts Name	数量 Quantity	材料,规格 Material and Specifications	防火等级 Prevent fire grade	备注 Remarks
1	胶盖 Cover	1	PA66-B361/R2N30	UL94V-0	
2	胶壳 Case	1	PA66-B361/R2N30	UL94V-0	
3	按挚 Plunger	1	Thermoplastic	UL94V-0	
4	COM端子 COM Terminal	1	Cu Alloy		Ag PLATED
5	NC 端子触点 NC Contact	1	Ag Alloy		
6	NC 端子 NC Terminal	1	Cu Alloy		Ag PLATED
7	密封圈 Rubber Seal Ring	1	Sealed Circle		
8	密封圈胶水 Sealing Ring Glue	0.01g	Silicone Rubber		
9	动片 Moving Plate	1	Cu Alloy		Ag PLATED
10	动片触点 MP Contact	1	Ag Alloy		
11	弹簧 Spring	1	SUS 304		
12	手柄 Handle	1	SUS 301		
13	PCB组件 PCB Subassembly	1	Resistance		220欧,3300欧

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PRODUCT SPECIFICATION 产品规格书

文件编号 FILE NO. 产品编码 PART NO. 产品描述 Product 14 电线 Electric Wire . Operating data diagram 操作参	Name	H5-A1-1C10W2-2- H5-A1-1C10W2-2- Micro Switch			文件版次	EDITION	A. 1
产品描述 Product 14 电线 Electric Wire	Name		150-T174	1 (32A)			
14 电线 Electric Wire		Micro Switch					
· · · · · · · · · · · · · · · · · · ·	0						
. Operating data diagram 操作参	2	UL1007-22AWG				COM:Black, N	C:Yellow
	数示意图	•	-				
OF :Operating Force RF :Release Force RP :Release Position OT :Over Travel	FP : Free Po DT : Differe	ravel Position	TF : PT :	Total Tra Total tra Pre Trave	vel Force		



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