

	规 格	承 认	书		规格书编号 2014022601		
品名	6X6 Through Hole	型号	TS60	0VH-***-B	1/8		
1.Gener 1.1 Sc ke	 1.General specification 基本说明 1.1 Scope 范围 This specification covers the requirements for single key switches which have no key top(TACT SWITCHES:MECHANICAL CONTACT).此规范含盖单推柄和无推柄的轻触开关要求 						
1.2	 Operating Temperature Range 使用温度范围 -20 to+70℃(normal humidity, normal press.)正常湿度,标准压力 						
1.3	Storage Temperature Range -40 to+85℃(norr	保存温度 nal humid	更范围 ity, normal	press.)			
1.4	 .4 Test Conditions 测试条件 Tests and measurements shall be made in the following standard conditions unless otherwise specified: 测试和计量按下列标准条件除非特殊说明 Normal temperature (temperature 5 to 35℃) 标准温度 Normal humidity (relative humidity 45 to85%) 正常湿气 Normal pressure (pressure 860 to 1060 mbars) 标准压力 In case any question arises from the judgment made, tests shall be conducted in the following conditions: Temperature (20±2℃) 温度 Relative humidity (65±5%) 相对湿度 Pressure (860 to 1060 mbars) 压力 						
2.TYPE	2.TYPE OF ACTUATION 动作类型 <u>Tactile feedback</u> 轻触返回						
3.CONT	TACT ARRANGEMENT_	<u>1</u> poles	<u>1</u> throws	;接触形式 1接点1	回路		
	(Deta	ils of cont	act arrange 细接点	ment are given in the a 形式在装配图中	ssembly drawings.)		
4.MAX	IMUM RATINGS DC	<u> 12 </u>	V <u>50</u>	_mA 最大额定值			
	DC	<u> 1 </u> V	/ _10	_µA 菆小砌定值			

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5 构道	5 构造:								
序 号	零部件名称	数量	材	料名称	表面处理	备注			
1	BASE	1	PA66		Black				
2	TERMINAL	1	BRASS		Ag plating				
3	CONTACT	1or2	PHOSPHOR BRONZE		Ag plating				
		-	COLD	PRESSED					
4	UUVEK		STEL PLATE						
5	STEM	1		PA66	_				

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6. Gene	6. General specification 性能								
I	tem 项目	Test Condition 测试条件	Requirements 要求						
6.1.1	Contact Resistance 接触电阻	Applying static load twice the actuating force to the center of the stem, measurements shall be made with a 1 kHz small-current contact resistance meter. 用两倍的动作力作静负载施加于按钮的中心,并用1千赫 小电流接触电阻仪测量	100m Ω 以下						
6.1.2	Insulation Resistance 绝缘电阻	Measurements shall be made following application of DC <u>100</u> V potential between terminals and between individual terminals and frame for one minute.在端子与端子之间,端子与外壳之间施加 DC100V,一分钟	100MΩ以上						
6.1.3	Dielectric withstanding voltage 电气耐压	AC <u>250</u> V (50Hz or60Hz) shall be applied between erminals and between individual terminals and rame for one minute. 在端子与端子之间,端子与外壳 上间施加 AC250V(50HZ-60HZ)							
6.1.4	Bounce 抖动	Lightly striking the center of the stem at a rate encountered in normal use (3 to 4 operations per sec),Bounce shall be tested when "ON" and "OFF". 在正常使用中(以每秒 3-4 次周期)轻轻地在手柄中心加 力,在通与断瞬间测试抖动 Switch DC3-5V 5k Q Oscillograph 示波器	10mS 以下						

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6.2 机械的性能

Item 项目		Test Condition 测试条件	Requir	ements 要求
		Place the switch such that the direction of switch	А	100 ± 50gf
		operation is vertical and then gradually increase	В	160 ± 50gf
621	Actuating Force	the load applied to the center of the stem, the	С	260 ± 50gf
0.2.1	动作力	stop shall be measured.开关的动作方向为垂直放置	D	320 ± 80gf
		开关向推柄中心逐渐地增加负荷直到推柄停止时所 测量的最大负荷	Е	520 ± 130gf
			F	70 ± 30gf
6.2.2	Travel 行程	Place the switch such that the direction of switch operation is vertical and then apply a static load twice the actuating force to the center of the stem, the travel distance for the stem to come to a stop shall be measured. 开关的动作方向为垂直放 置开关,并以双倍动作力的静负荷作用推柄中心,测量 推柄从开始到停止的行程距离	0.25	± <u>0.10</u> mm
6.2.3	Return Force 返回力	The sample switch is installed such that the direction of switch operation is vertical and, upon depression of the stem in its center the whole travel distance, the force of the stem to return to its free position shall be measured. 开关的动作方向为垂直放置开关,在已有行程的推柄中心向上减小压力,推柄回到自由位置时所测量到的力	50	_gf min
6.2.4	Static Strength 静止强度	Placing the switch such that the direction of switch operation is vertical, a static load of <u>3</u> kgf shall be applied in the direction of stem operation for a period of <u>15</u> seconds. 开关的动作 方向为垂直放置开关,在推柄动作方向施加 3KG 的静负荷,15 秒时间	There sha of damag mechanic electrical 无机械的 迹象	all be no sign e cally and ly. 和电气的损伤

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6.3 使用耐久性能

Item 项目		Test Condition 测试条件	Requirements 要求	
6.3.1	Operating Life 动作寿命	Measurements shall be made following the test set forth below:按下列条件进行寿命试验 (1)DC 5V 5mA resistive load. DC 5V 5mA 阻性 负载 (2)Rate of operation:1 operations per second 动作 频率:1 次/每秒 (3)Depression: <u>Operating force max.</u> 减压力 (4)Cycles of operation: 70~160gf: 20×10 ⁴ cycles 动作次数: 20×10 ⁴ * 260gf: 10×10 ⁴ cycles 动作次数: 10×10 ⁴ * 320~520gf: 5×10 ⁴ cycles 动作次数: 5×10 ⁴ *	Contact resistance: 200 m Ω Max. 接触电阻 Insulation resistance : 50 M Ω Min. 绝缘电阻 Actuating force: 动作力 + 30 % or- 30% of initial force. ±30% 初始动作力 Item 6.1.3 Item 6. 2.2	
6.3.2	Moisture Resistance 耐潮湿	 Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made: 样品按下列条件进行耐潮湿试验,试验后在正常温度和湿度条件下放置1小时后测定 (1) Temperature: 60±2℃ 温度 (2) Relative humidity: 90 to 95% 相对湿度 (3) Time: 96 hours 时间 Water drops shall be removed. 擦除水珠 	Contact resistance: 200 m Ω Max. 接触电阻 Insulation resistance : 50 M Ω Min. 绝缘电阻 Item 6.1.3、6.1.4 Item 6. 2.1~6.2.3	
6.3.3	Low Temperature Resistance 耐低温	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made: 样品按下列条件进行耐低温试验,试验后在正常温度和 湿度条件下放置1小时后测定 (1)Temperature: -40±2℃ 温度 (2) Time: 96 hours 时间 Water drops shall be removed. 擦除水珠	Contact resistance: 200 m Ω Max. 接触电阻 Insulation resistance : 50 M Ω Min. 绝缘电阻 Item 6.1.3 \lapha 6.1.4 Item 6. 2.1~6.2.3	
6.3.4	Heat Resistance 耐热	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made: 样品按下列条件进行耐热试验,试验后在正常 温度和湿度条件下放置 1 小时后测定 (1)Temperature: 85±2℃ 温度 (2) Time: 96 hours 时间	Contact resistance: 200 m Ω Max. 接触电阻 Insulation resistance : 50 M Ω Min. 绝缘电阻 Item 6.1.3、6.1.4 Item 6. 2.1~6.2.3	

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It	em 项目	Те	est Cond	lition 测试条件	Ree	quirements 要求
6.3.5	Change of Temperature 温度循环	Following ten Sample shall humidity C measurement drops shall bo 样品按下列系 正常温度和系 温度(℃)	n cycles o be Placed onditions s are made removed 条件进行 温度条件 -1 cycle—	f high temperature test .The l in Normal temperature and for one hour before de. During this test, water l. 高低温循环试验,试验后在 下放置 1 小时后测定 A: +85±2℃ B: -40±2℃ C: 2 小时 D: 1 小时 E: 2 小时 F: 1 小时 F: 1 小时 F: 1 小时	Cont m Ω Insul 50 N Ite Ite	act resistance: <u>200</u> Max. 接触电阻 lation resistance : 1Ω Min. 绝缘电阻 em 6.1.3、6.1.4 em 6. 2.1~6.2.3
6.3.6	Vibration Resistance 耐振动	Measurements shall be made following the test set forth below: 按下列条件进行抗振动试验 (1)Range of oscillation:10 to 55Hz 频率范围 (2)Amplitude,pk-to-pk:1.5 mm 振幅: 峰-峰 1.5mm (3)Cycle of sweep: 10-55-10Hz in one minute, approx.扫描周期: 10-55-10Hz 约一分钟内 (4)Mode of sweep: Logarithmically sweep or uniform sweep. 扫描方式:对数扫描式恒定扫描 (5)Direction of oscillation: 振动方向 Three mutually perpendicular directions, including the direction of stem travel. 3 个相互垂 直方向,包括推柄行程方向 (6)2 hours each ,for a total of 6hours.每方向 2 小时. 共 6 小时		Ite Ite	em 6.1 em 6. 2.1、6.2.2	
6.3.7	Impact Shock Resistance 抗冲击	Measurement forth below: (1)Accelerati (2)Cycles of a total of 18c 共 18 次	ts shall be 按下列条作 on:80g 加 test :3 cyc ycles 试验	made following the test set 件进行冲击试验 印速度 eles each in 6directions, for 脸次数:每个方向 3 次,6 个方向	Ite Ite	em 6.1 em 6. 2.1 、6.2.2



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9. GENERAL 通用

9.1 SCOPE 范围

This specification covers the requirements for 6.0×6.0 series type of tact switches. 本规格涵盖 6.0×6.0 系列轻触开关的要求

9.2 PACKING MATERIAL 包装材料

ITEM	SUBSTANCE
CARTON BOX 卡通箱	CORRUGATED PAPER 瓦楞纸
PACKING CTN 包装盒	CORRUGATED PAPER 瓦楞纸
PLASTIC BAG 塑料袋	NORMAL PLASTIC 普通塑料

9.3 PACKING UNIT 包装单位

9.3.1 The capacity of packing ctn. 包装盒容量

Every carton box contains 30 packing box at most. 每个外箱内最多包括 30个包装盒

9.3.2 Every packing carton contains 2K pcs goods at most. 每个包装盒内包括 2K pcs产品 9.4 Every plastic bag contains 1000 pcs

每个塑料袋容纳 1000 pcs



Pulling-out direction

9.5 The shape and dimension of packing carton. 包装盒及外箱的外型尺寸



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