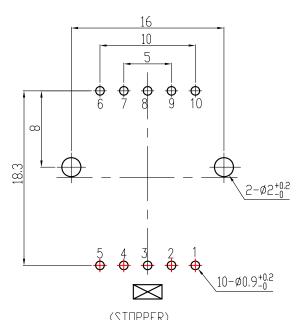




30° 单刀



(ZIUPPER)						
P.C.B	MOUNTING	HOLE	DETAIL			

01	_			_	04	_	_	
00	ORIGINAL DRAWING		2016. 03. 19	03	_	_		
.ISSU.	SU. REVISION			DATE	02	_	_	
				TOL. UNLES	SS OTHERWISE	SPEC.	一	
				BASIC D	IMENSIONS	TOL.		
				L <u>≤</u>	10	±0.3		

DSGD. CHKD. APPD. 10 < L  $\pm 0.5$  DRAWING NO:

S17021XACH1-1-9-15FQ7P-000

RAWING NO: MJ-S17-0001

### S17 系列规格书

#### **S17 SERIES SPECIFICATION**

### 1. 一般事项 General

1-1. 适用规格 Scope

本规格书适用于17型开关。

This specification applies to 17mm size switch

1-2. 标准状态 Standard atmospheric conditions

除另有规定外,测量应在以下状态下进行:

Unless otherwise specified ,the standard range of atmospheric conditions for making

measurements and test is as following limits:

温 度 Ambient temperature: 15℃ to 35℃ 相对湿度 Relative humidity : 25% to 85% 气 压 Air pressure :86kpa to 106kpa

如果对在上述所提到的条件中所做的实测值有疑问的话,应使用以下条件进行测量:

If doubt arises on the decision based on the measured values under the above-mentioned

Conditions , the following conditions shall be employed:

温 度 Ambient temperature: 20±1℃ 相对湿度 Relative humidity : 63% to 67% 气 压 Air pressure :86kpa to 106kpa

1-3. 使用温度范围

Operating temperature range :  $-10^{\circ}$ C to  $+70^{\circ}$ C

1-4. 保存温度范围

Storage temperature range :  $-30^{\circ}$ C to  $+80^{\circ}$ C

#### 2. 构造 Construction

2-1.尺寸 Dimensions

见所附成品图 Refer to attached drawing

#### 3. 额定值 Rating

3-1.额定电压

Rated voltage :DC 16V 3-2.最大额定电流(阻抗负载)

Maximum operating current (resistive load) 0.3A

### 4. 电气性能 Electrical Characteristics

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项目	条件	规格				
ITEM	CONDITIONS	SPECIFICATIONS				
4-1.开关电路接入点数	详见所附成品图	极数 Poles	段数 Sections			
Switch circuit and	Refer to attached drawing	$\Box 1 \Box 2$	$\square 2 \square 3 \square 4$			
Number of pulse			$\Box 5 \Box 6 \Box 7$			
			□8 □9			
4-2.绝缘阻抗	在端子和支架间施加电压 500V DC 1 分钟。					
Insulation	Measurement shall be made under the condition	100MΩ 以上				
resistance	which a voltage of 500V DC 1 min is applied between individual terminals and frame	100MΩ Min				
4-3.耐电压	在端子和支架间施加电压 AC500V 电压 1 分钟	不得有绝缘破坏				
Dielectric	A voltage of 500V AC shall be applied for	Without arcing or breakdown				
strength	1 minute between individual terminals and frame					
4-4.端子间接触阻抗	出力信号处于 ON 时安定状态条件下测定	寿命前: 50mΩ 以下				
Contact resistance	Measurement shall be stable condition which a 寿命后: 1Ω以下					
	Output signal is ON					

# S17 系列规格书

## S17 SERIES SPECIFI CATION

45 14 4 4			
5. 机械性能 Mechan	nical Characteristics		
5-1.转换角度		$\Box 30^{\circ} \pm 3^{\circ}$ (one-step operating angle)	
Changeover angle		$\Box 45^{\circ} \pm 3^{\circ}$ (one-step operating angle) $\Box 75^{\circ} \pm 3^{\circ}$ (one-step operating angle)	
5-2.旋转力矩		10-70mN.m.(100-700gf.cm)	
Rotational torque			
5-3.轴的推拉强度	在轴端,沿轴向施加 10Kg 的静负荷力推和拉各 10 秒	轴向虚位间隙 0.4 以内	
Push-pull	钟(产品焊锡固定在 PCB 上.)	Shaft play in axial	
Strength of shaft	Push and pull static load of 8Kg shall be applied to the	direction 0.4 Max	
	shaft in the axial direction for 10s. (After soldering of the PCB board)		
5-4.端子强度	在端子的先端施加 5N(500gf)的力 1 分钟.	端子无损坏,无过度的松度,允许变形.	
Terminal	A static load 5N(500gf) be applied to the tip of	Without damage or excessive	
strength	terminals for 1 minute in any direction.	looseness of terminals. Terminal	
5-5.轴套螺纹紧固强度		bend is permitted. 7.0Kgf.cm 以上	
3-3.抽层縣纹系回烛/支   Bushing Nut		7.0Kgf.cm 以上 7.0Kgf.cm Min	
Tighten Strength		7.Orgi.em Will	
5-6.止动强度		6.0Kgf.cm 以上	
End stop strength		6.0Kgf.cm Max	
5-7.轴向间隙		0.4mm 以下	
Shaft play in axial		0.4mm Max	
direction			
5-8.轴摆动	在距离轴顶端 5MM 处,沿径向瞬间施	0.7*L/30mm p-p 以下(L:指安装平面到	
Shaft wobble	加 50mN.m(500gf.cm)的力测试	轴的柄端的距离.)	
	A momentary load of 500gf.cm should be applied at the point 5mm from the tip of the shaft in a direction	0.7*L/30mm p-p Max L:Distance between mounting surface	
	perpendicular to the axis of shaft.	and measuring point on the shaft	
5-9.轴的回转方向摆动	用角度板测定.	5°以下	
Shaft play	Testing by angle board.	5° Max	
in rotational wobble	was Characteristics		
6. 耐久性能 Endura	<b>T</b>	I - V.	
项目 ITEM	条件 CONDITIONS	规格 SPECIFICATIONS	
6-1.回转寿命	在无负荷条件下轴以 600~800 周/小时速度回转,	10000±200 周	
Rotational life	24 小时连续 5000~8000 次.	10000±200 /AJ 10000±200 cycles per below 100gf.cm	
Rotational inc	The shaft of switch shall be rotated at speed of 600~1000	尚余有轻微定位感.	
	cycles /H without electrical load, after with	端子间接触阻抗 1Ω 以下	
	measurements shall be made	Detent feeling has to remains	
	(5000 to 8000 continuous cycles for 24 hours.)	Contact resistance 1Ω Max	
6-2.耐湿性	温度 40±2℃,湿度 90~95%的恒温恒湿槽中放置	   所有项应满足初期规格	
Damp heat	96±4 小时后,在常温、常湿中放置 1.5 小时后测试.	Specifications in clause	
	The switch shall be stored at temperature of $40 \pm 2^{\circ}$ C	All items is shall be satisfied	
	with relative humidity of 90~95% for $96\pm4$		
	in a thermostatic chamber. And the switch shall		
	be subjected to standard atmospheric conditions for 1.5H, After which measurements shall be made.		
	101 1.311, Arter which measurements shall be made.		

# S17 系列规格书

## **S17 SERIES SPECIFICATION**

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6-3.耐热性 Dry heat	温度 80±3℃,的恒放置 1.5 小时后测 The switch shall be 96±4H in a therm Shall be subjected 1.5H, After which n	試. stored at a tempe ostatic chamber, to standard atmo	所有项应满足初期规格. Specifications in clause all items is shall be satisfied		
6-4.低温特性 Cold	温度-40±3℃的恒置 1.5 小时后测试. The switch shall be for 96±4H in a switch . Shall be conditions for 1.5H made.	e stored at a tem thermostatic cha subjected to	所有项应满足初期规格. Specifications in clause all items is shall be satisfied		
6-5.焊锡耐热性 Resistance to soldering heat	槽焊 Dip soldering 使用基板:t=1.6mm Printed wiring board laminate board with 预热:基板表面温度 Preheating:1.Surfactless 2.Preheating tir 焊接:温度 260±5℃ Soldering :solder te Immersion time :wi 手焊 Manual solde 温度 350℃以下,时 Bit temperature of st Application time of	的单面覆铜板.d:single-sided co thickness of 1.6r ₹ 100℃以下,时间 e temperature of l me:within 1 minu C或以下,时间 3 mperature: 260± thin 3S ring 间 3 秒以内. oldering iron:350	不得有绝缘体的破损、变形、接触无异常 Electrical characteristics shall be satisfied No mechanical abnormality		
6-6.焊锡性 Solderability	端子在 $260$ $\mathbb{C}$ $\pm 5$ $\mathbb{C}$ 的温度的焊锡槽内浸锡 $3$ 秒 $\pm 0.5$ 秒. The terminals shall be immersed into solder bath at $260$ $\mathbb{C}$ for $3S \pm 0.5S$ .			浸渍面须有 75%以上焊锡附着 A new uniform coating of solder shall cover 75% minimum of the surface being immersed	
7. 包装部分 Packin	g Portion			l	
项目 ITEM	条件 CONDITIONS			规格 SPECIFICATIONS	
7-1.包装方式 Packing	使用泡沫盒和纸箱包装. Packed in foamed plastic plate carton			每盒 100PCS,每箱 10 盒 共计:1000PCS/箱 Put 100PCS products into foamed plastic plate, then pack 10plates into a carton, total 1000PCS/carton	
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