

#### Yueqing Yulin Electrical Co., Ltd

Address: .#19 Ke'aisi Road, Xiangyang industrial area, Liushi Town, Yueqing City, Zhejiang Province, China

Tel: 0577-27878383-8029 Fax: 0577-27878383-8027

website: www..FILN.COM

**CUSTOMER'S CODE:** 

**DESCRIPTION:** 

## SPECIFICATION FOR APPROVAL

Toggle Switch (Corded Version)

# 格说明

SPECIFICATION:				
DATE :	2023-4-24			
PART NO:	FL3-KN1-203			
REFERENCE No.:				
Approved By Customer	<b>Q</b> ualified By	Form Designer		
编制	审核	批准		



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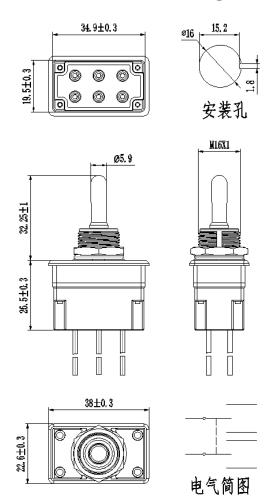
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### 1. Physical drawings:



### 2. dimension drawing:



### 3. Accessory Materials:

Name	Matter	
handles	Н59	
nut	copper alloy	
waterproof ring	silica	
rivets	Silver Plated	
resistive		
LED light		
circuit board		
housings	zinc alloy	
foundation	PA66 Flame retardant enhanced %25	
waterproof case	caoutchouc	
Brackets/Jumpers	Silver Plated	
silver contact	AgSn02 (8) I n203 (4)	
Teflon Wire		
sprung	T9A	
metal ferrule	08F	
annulus	PC	
locating sleeve	Н59	
rivets	aluminum	



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#### 4. Temperature range:

Operating ambient temperature:  $-25^{\circ}$ C  $\sim +85^{\circ}$ C.

#### 5. Appearance and feel:

5.1 Signs are clear and firm;

Clean and beautiful appearance, no deformation, no damage, no cracking;

No corrosion, no poor plating;

The components are firmly connected, no loosening, no shedding;

5.2 Flexible switch operation, no jamming, no obvious friction.

#### 6. Electrical Performance:

Eı	nterprise	Test conditions	Technical Requirements
6.1	rated value	6A 250VAC	
6.2	contact resistance	Measured at a small current of 1KHz.	≤200m Ω
6.3	Insulation resistance	Apply DC500V between the terminals and between the terminals and the housing and measure after one minute.	≥100M Ω
6.4	pressure resistance	Apply AC1500V, 0.5mA, for 10 seconds between terminals; Apply AC3000V, 0.5mA, for 10 seconds between terminals and enclosure;	No breakdown or flashover.
6.5	Electrical durability	15 operations per minute at rated load for a total of 10,000 operations.	<ol> <li>1. Qualified in appearance and feel;</li> <li>2. 2. contact resistance ≤2 Ω;</li> <li>3. 3. Terminal temperature rise ≤ 55K;</li> <li>4. Pass the pressure resistance test.</li> </ol>



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7.1	maneuverabili ty	The switch is placed perpendicular to the direction of operation, and the maximum force required to energize the switch is measured by gradually applying force on the button side.	Per customer request.
7.2	Terminal Strength	Apply a static load of 60N pushed inward to the top of the terminal for 60 seconds.	The terminals are not damaged or disconnected, and the switch function operate normally.
7.3	weldability	The terminals were immersed in a molten tin bath at a temperature of 235±5°C for 3±0.5 seconds.	More than 90% of the surface of the immersed part is covered with tin
7.4	welding heat resistance	The soldered portion of the terminal is immersed in a molten tin furnace at a temperature of $260\pm5^{\circ}\mathrm{C}$ for $3\pm1$ seconds.  Manual soldering iron welding, welding temperature $350~\pm~5~^{\circ}\mathrm{C}$ , welding time $3~\pm~1$ second. No pressure shall be exerted on the terminals during welding.	1. 1. No obvious deformation of the body; 2. Mechanical and electrical performance tests are qualified.



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8. Wear	8. Weatherability:			
8.1	heat resistance	Tested after 72 hours at 85±2°C and then 1 hour in a natural environment.	<ol> <li>1. 1. Qualified in appearance and feel;</li> <li>2. 2. contact resistance ≤ 2Ω;</li> </ol>	
8.2	heat and humidity resistance	Tested after 96 hours at 40±2°C and 91%-95% RH humidity, followed by 1 hour in a natural environment.	3. 3. Pass the pressure resistance test; 4. 4. Qualified mechanical properties.	
8.3	low temperature resistance	Tested after 12 hours in a -25±2°C environment and then 1 hour in a natural environment.		
8.4	temperature fluctuation	Temperature alternations were performed at the temperatures and times shown for 5 consecutive cycles and then tested after 1 hour in a natural environment.		