

MS11 型微動開關系列 Micro switch series

◆ 穩定可靠的微動開關 Stable and reliable micro switch

- 可靠性高、接觸穩定
High reliability and stable contact.
- 為智能斷路器輔助觸點，主要監控斷路器分斷情況，觸點脫扣指示及斷路器接地故障報警等信號指示用。
As an auxiliary contact for intelligent circuit breakers, it is mainly used to monitor the breaking situation of the circuit breaker, indicate contact tripping, and provide signal indications for circuit breaker grounding fault alarms.



◆ 技術特性 Technical Characteristics

項目 Item	特性值 Value
環境溫度 Environment temperature	-5°C~+40°C
使用類別下的各額定工作電壓 U_e /電流 I_e Rated working voltage U_e /current I_e under the usage category	AC-12:AC480V/10A AC-12:AC480V/5A, AC600V/3A; DC-12:DC48V/2.5A, DC125V/0.6A, DC250V/0.3A
額定絕緣電壓 U_i Rated insulation voltage U_i	600V
額定衝擊耐受電壓 U_{imp} Rated impulse withstand voltage U_{imp}	6kV
外殼防護等級 Case protection degree	IP00
汙染等級 Pollution degree	3
約定發熱電流 I_{th} Conventional thermal current I_{th}	10A
絕緣電阻 Insulation resistance	$\geq 100M\Omega$ (500VDC)
接觸電阻 Contact resistance	$\leq 50m\Omega$
工頻耐電壓 Test voltage	AC1890V, 50/60Hz, 1min
抗振動 Vibration resistance	10~55Hz, 1.5mm 雙振幅 double amplitude
抗衝擊 Shock resistance	最小 Min.: $294m/s^2$ (30G) 接觸故障持續時間不超過 1ms Contact opening max. 1 msec.
接線端子連接導線能力 Capacity of terminal to connect wires	導線截面積 Wire cross-sectional area: $0.5mm^2 \sim 1.5mm^2$ 螺紋直徑 Thread diameter: M3.5×8 擰緊力矩 Tightening torque: $0.8N \cdot m$
電氣壽命 Electrical Life	$\geq 6,000$ 次 cycles
機械壽命 Mechanical Life	$\geq 100,000$ 次 cycles
安全認證 Safety approvals	UL、TUV、3C

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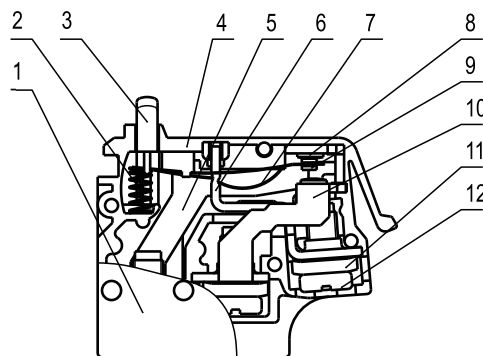
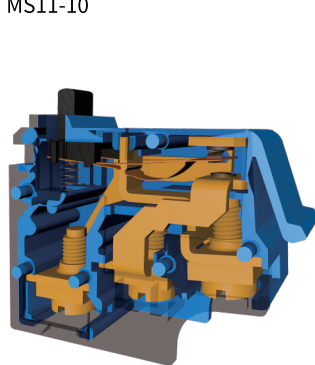
◆ 型號規格命名及含義 Model number legend and meanings

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 1 2 3 4 5 6 7

1 溫度等級 Degrees of temperature	5T40
2 額定值 Ratings	10:10A 480VAC 05: 5A 480VAC; 3A 600VAC; 2.5A 48VDC; 0.6A 125VDC; 0.3A 250DC
3 接觸形式 Circuit	Z:轉換式Z-SPDT T:常開(按通)式 T-SPST-NO D:常閉(按斷)式D-SPST-NC
4 端子類型 Terminal types	E:螺孔端子 Screw terminal C:插拔端子 Plug-in terminal
5 動作力 (max) Operating force	200:2N 150:1.5N 120:0.7N-1.2N
6 外形結構 Contour structure	無標記:螺釘結構 No standard :screw structure A:卡簧快接結構 A: Circlip quick connection structure
7 附加規格編號 Additional specs numbers	適用於 Apply to: 1) 當開關使用了非標準零件如非標準端子時; When used not standard parts such as not standard terminal. 2) 當顧客有特殊動作特性值或是其他要求; When customer has particular operating value or other requirements. 附加規格編號用阿拉伯數字表示, 在沒有附加規格編號時, 該位置空缺。 Additional specs number shows by Arabic numerals. If there is no additional numbers, the place is vacant.

◆ 内部构造图 Internal configuration drawing

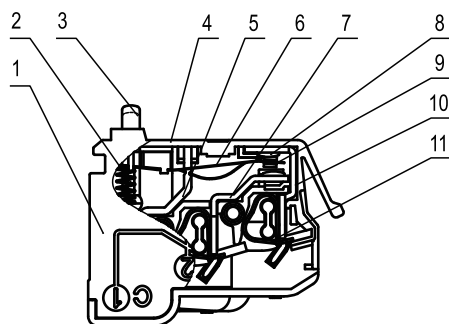
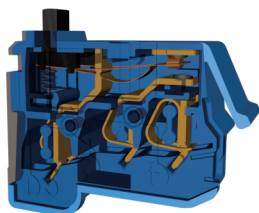
MS11-10



- | | |
|-------------|-------------------------------|
| 1. 盖 | Cover |
| 2. 弹簧 | Spring |
| 3. 按钮 | Plunger |
| 4. 基座 | Case |
| 5. 常闭端子 | Nc Terminal |
| 6. 支架 | Support |
| 7. 可动片 | Moving Piece |
| 8. 静触点 | Static Contact |
| 9. 动触点 | Moving Contact |
| 10. 常开端子 | no Terminal |
| 11. 垫圈 | Washer |
| 12. 十字槽盘头螺钉 | Cross Recessed Pan Head Screw |

◆ 內部構造圖 Internal configuration drawing

MS11-05



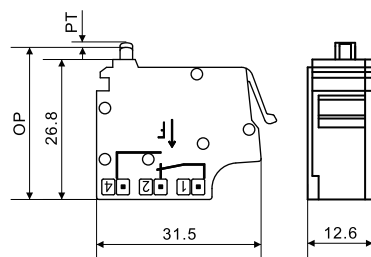
- | | |
|---------|----------------|
| 1、蓋 | Cover |
| 2、彈簧 | Spring |
| 3、按鈕 | Plunger |
| 4、基座 | Case |
| 5、支架 | Support |
| 6、可動片 | Moving piece |
| 7、常開端子 | No terminal |
| 8、靜觸點 | Static contact |
| 9、動觸點 | Moving contact |
| 10、常閉端子 | Nc terminal |
| 11、卡簧 | Spring |

■ 接觸形式說明圖 Circuit illustration

接觸形式說明圖 Circuit illustration			
 MS11-10	转换式SPDT 	常開式SPST-NO 	常閉式SPDT-NC
 MS11-05			

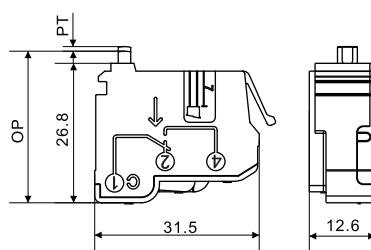
◆ 外形尺寸和動作特性 Dimensions and operating characteristics

MS11-10



型號Model	MS11-10Z-E200	MS11-10Z-E150
OF Max(N)	2.0	1.5
RF Min(N)	0.5	0.3
PT Max(mm)	1.5	
OT Min(mm)	1	
MD Max(mm)	0.5	
OP (mm)	29±0.3	

MS11-05



型號Model	MS11-10Z-E200	MS11-10Z-E150
OF Max(N)	1.5	1.2
RF Min(N)	0.3	0.2
PT Max(mm)	1.5	
OT Min(mm)	1	
MD Max(mm)	0.5	
OP (mm)	29±0.3	

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