

Instructions

Drawing No.: APT0.463.024.2

Before installing the device, please read the instructions.

1 Summary

1.1 Main uses

LA39 series pushbutton is fully functional. It could meet the demand of domestic and overseas digital control(programme control) equipment and electrical and electronic control.It's widely used in machine tool (AC power 50Hz or 60Hz,AC voltage 660V/DC voltage below 440V)、textile industry、ship areas、aviation、automobile、tobacco industry、electric power、medical devices etc.And supporting the use of circuit control、signal control、interlock.

1.2 The composition and significance of models

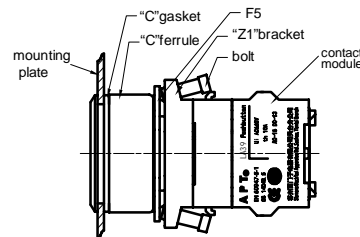
LA 39- - /

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

- | | |
|---------------------------------------|---|
| ① Pushbutton type | ⑦ Symbolic code |
| ② Design number | ⑧ Button colour |
| ③ Operator style and bracket style | ⑨ Action of rotary switch or key switch |
| ④ Quantity of normally open contacts | ⑩ Voltage code for pilot lamp |
| ⑤ Quantity of normally close contacts | ⑪ Operator shell protection grade |
| ⑥ Assist type | ⑫ Assist code |

2 Notes


- 1) Power must be turned off while installing the switch, wiring the line etc.
- 2) The wire must meet the requirement.
- 3) Cover the switch during installation to prevent impurities into product, such as metal powder.
- 4) The switch should be used in rated voltage and electric current.



picture 2

3 Technical Characteristics

3.1 Technical Parameters

- | | | |
|---|--------------------------------|--|
| 1) Rated insulation voltage (Ui): | 660V | 
picture |
| 2) Conventional free air thermal current (Ith): | 10A | |
| 3) Rated impulse withstand voltage(Uimp): | 4000V | |
| 4) Power frequency withstand voltage : | 1890V (AC valid values) /5s; | |
| 5) Electrical life: | 6×10 ⁵ times | |
- 6) Using categories : AC-15、DC-13;
- AC-15, DC-13

Comparison table of rated operational current I_e (A) and rated operational voltage U_e (V) see table1:

AC-15	Ue	660V	380V	220V	110V	48V	24V
	le (Instantaneous)	0.8A	1.5A	2.5A	5A	10A	10A
	le (Peristaltic)	2A	4A	6A	10A	10A	10A
DC-13	Ue	440V	220V	110V	48V	24V	/
	le (Instantaneous)	0.2A	0.4A	0.8A	1.8A	3.6A	/
	le (Peristaltic)	0.25A	0.5A	1A	3A	6A	/

Table1

7) Rated operating voltage corresponds to the voltage code see table2;

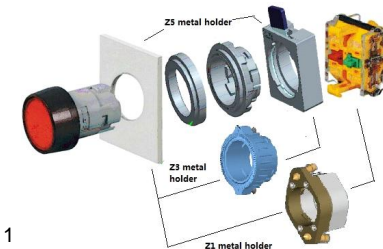
Table2																							
Code	20	21	22	15	23	16	24	25	17	18	26	27	36	28	33	35	31	40	41	42	37	32	38
Power supply	AC-DC																50~60Hz AC						
Voltage(V)	5	6	12	15	24	30	36	48	63	75	110	127	150	220	270	440	220	230	240	250	270	380	440

Table2

- 8) Type of fuse in test of rated conditional short-circuit current : NT00-10A;
- 9) The largest cross-section: 1.5mm², the least cross-section: 0.5mm², the maximum number of conductors connected to the terminal : 2;
- 10) Diameter of the thread: M3.5 , tightening torque: 0.8N·m;
- 11) Rotate pushbutton operating moment < 0.5 N·m; Pushbutton head operating moment < 0.2 N·m; (without switch body)

3.2 Work Environment

- 1) Use environment temperature: $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$
- 2) Air relative humidity: $\leq 90\%$
- 3) The altitude is less than 2000m;
- 4) Installation category is II;
- 5) Pollution degree is 3; (When the operational voltage exceed 500V, pollution degree is 2)



picture 1

4 Installation method and Installation dimension

4.1 Installation method

- 4.1.1 Insert the operator into the mounting hole from the front of panel.
4.1.2 For Z1 Z2 type,twist the mounting base in the back of the panel,fasten both screws(max torque is 25N-cm).When the panel material is plastic and other non-metal,a mounting plate could be put at the back the panel before mounting;

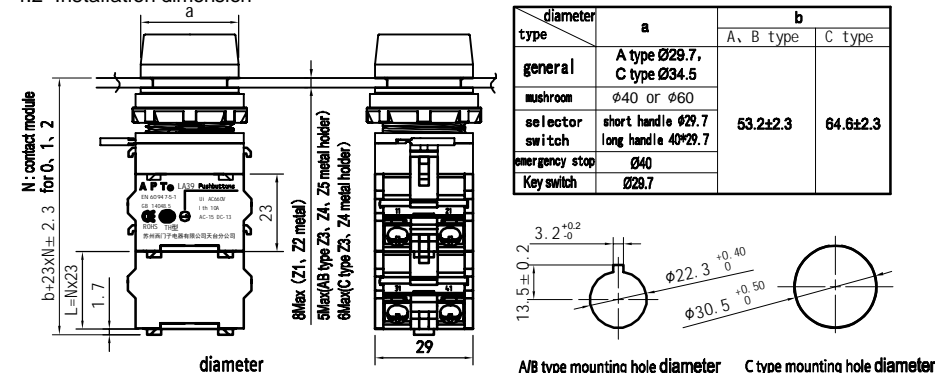
Inset washer into pushbutton from the back of the panel.According to panel thickness,it could change installation.(Only for Z5 type);

- 4.1.3 The gasket from the opposite side of the panel set into the button head, positive and negative can be adjusted according to the thickness of the panel installation (Z5 only need)
- 4.1.4 Install the screw nut and fixing device from the back side of the panel by turning 30 °clockwise of the screw, then fasten the fixing device by the special assemble element. Noting the white mark of the screw must be upper and aligning the nick with the actuator housing. Sheath the fixing device with the body of flange, and then fasten the body by pushing the locking piece according to the arrow. The locking piece must be upper (it's suitable for Z3 Z4 Z5 type).
- 4.1.5 Button on the contact module (in separate contact module and the bracket)

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 Tips: 1, all C button to match the Z1 a default with a C gasket and F5, mounting plate thickness <1.5mm
 when need to order.

- A. Mounting plate thickness < 1.5 mm, except the C1 - X (S) D/model increase as shown in figure 2 2 gas
C1 - X (S) D / 1 .
- B. when Mounting plate thickness 1.5-3 mm, add 1 C gasket;
- C. when installing thickness 3-6 mm, all models don't c gasket

4.2 Installation dimension



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