

Instructions Drawing No. : APT0. 463. 025

Before installing the device, please read the instructions.

1 Summary

1.1 Main uses

LA39-F 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 220V/DC voltage below 220V)、 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-F- □ □ □ □ □ □ □ □
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① Pushbutton type and Design number
- ② Specification code : mounting hole diameter Φ12mm
- ③ Quantity of contact : 11--a normally open a normally closed、 22--two normally open two normally closed
- ④ Assist type :Normal-- pushbutton、 D--pushbutton with illumination、 TD--With Indicator self-locking pushbutton
- ⑤ Shape of Head: Normal--Round、 F--square、 J--rectangle
- ⑥ Character code
- ⑦ 1. color code: r--red、 g--green、 y--yellow、 b--blue、 w--white、 k--black
2. position of pull out of key :L--left、 C--center、 R--right
- ⑧ Code of voltage (only for pushbutton with illumination):
- ⑨ Assist code: 1、 Normal-- conventional Type, 2、 Annotation: marked as required .

2 Notes

- 1) Avoid welded connection switch, shall adopt the internationally used 2. 0 x 0.4 mm connection, and set on the sheath.
- 2) If you need welding connection:
A. hand welding 25 w, 3 seconds. B. automatic welding 240 °C, 3 seconds.
Good welding one minute after applying force, and then put on jacket, do not use solvents to welding and avoid flux into the switch inside, cause product damage.
- 3) Button in the application, it is forbidden to use other appliances replacement operation .
- 4) Should be used in rated voltage and power flow .

3 Technical Characteristics

3.1 Technical Parameters

- 1) Rated insulation voltage (U_i): 250V
- 2) Conventional free air thermal current (I_{th}): 3A
- 3) Rated impulse withstand voltage(U_{imp}): 1500V
- 4) Power frequency withstand voltage : 1500V (AC valid values) /5s;
- 5) Electrical life: AC-15 1x10⁵ times ,DC-13 5x10⁴ times

o) Using categories: AC-15、 DC-13、

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

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

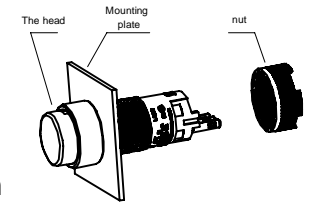
Categories	U _e	24V	110V	220V
AC-15	I _e	2A	1A	0.5A
DC-13		0.7A	0.2A	0.1A

Table1

Code	21	22	23
Power supply	AC-DC		
Voltage(V)	6	12	24

Table2

- 8) Type of fuse in test of rated conditional short-circuit current : NT00-4A;
 - 9) The largest cross-section: 0.75mm², the maximum, number of conductors connected to the terminal: 1;
 - 10) Terminal type: adopt the internationally used set of 2.0 x 0.4 mm connection, and set on the sheath;
 - 11) Rotate pushbutton operating moment < 0.2 N·m;pushbutton operating moment < 15 N·m
- ### 3.2 Work Environment
- 1) Use environment temperature:-25℃ ~+55℃
 - 2) Air relative humidity:≤90%
 - 3) The altitude is less than 2000m;
 - 4) Installation category is II;
 - 5) Pollution degree is 3;



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. (picture 1)

4.1.2 Screw into the Pushbutton on the back of the nut from ;(picture 1)

4.1.2 Pushbutton with illumination, in order to ensure that the series with the brightness of the light button and the service life, the user needs on the outside of the products in series resistance (provided by our company), choke parameters shown in table 3, the welding method (picture 2).

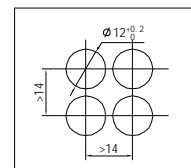
4.2 Installation dimension

Table3 Resistance Parameters

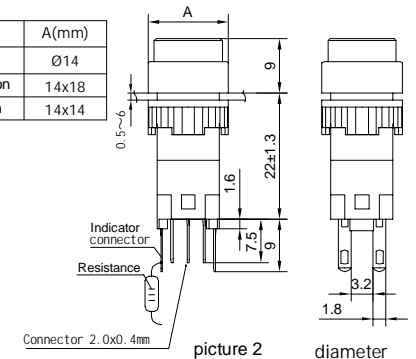
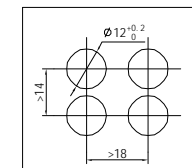
Code	DC21	DC22	DC23
Voltage(V)	6	12	24
Resistance	240Ω 1/2W	680Ω 1W	1.3KΩ 1W

Type	A(mm)
Radio Pushbutton	Φ14
rectangle Pushbutton	14x18
square Pushbutton	14x14

Round, square Type
The Mounting hole



Rectangle Type
The Mounting hole

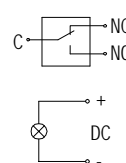


picture 2

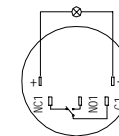
diameter

4.3 Pushbutton in the contact form and wiring diagram:

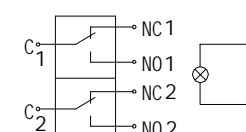
1. a normally open a normally closed



wiring diagram



2. two normally open two normally closed



wiring diagram

