

LA39-B Twin Push Button Switch Siemens APT

Model definition

La39 - 1 2 3 / 4 5 6

Separated into A₁A₂A₃ B₁B₂B₃ C₁C₂C₃ according to the different actuators and holders
The code and serial number of the pushpushbutton code are issued by Shanghai Electrical Apparatus Research Institute.

1 Num of NO; **2** Num of NC; **3** Auxiliary model

Letter	Meaning	Letter	Meaning	Letter	Meaning
	Normal Pushbutton	Z	Emergency stop Pushbutton	XS	Short-handle three-position selector switch
D	Illuminated Pushbutton	ZY	Key-reset emergency stop pushbutton	CX	Long-handle two-position selector switch
T	Maintained Pushbutton	Y	Two-position key switch	CXS	Long-handle three-position selector switch
M	Mushroom Pushbutton	YS	Three-position key switch		
MT	Maintained mushroom Pushbutton	X	Short-handle two-position selector switch		

4 Color code of the Pushbutton, action function and pull-out position of the selector switch and key switch

Red	Green	Yellow	Blue	White	Black
r	g	y	b	w	k
Action function			Key pull-out position		
f	fu	ffu	a	ao	au
Left reset	Right reset	Left Right reset	Pull out from the left	Pull out from the middle	Pull out from the right

5 Voltage code of the indicator

Code	21	22	23	24	25	26	27	28	31	32
Power Supply	AC · DC							DC	50-60Hz AC	
Voltage	6V	12V	24V	36V	48V	110V	127V	220V	220V	380V

6 Humid thermal type is added with "TH"

Technical Data

Rated Capacity	Snap-action type AC-15 220V/2.5A 380V/1.5A 660V/0.8A	DC-13 24V/3.6A 48V/3A 110V/1A 220V/0.4A 440V/0.25A
	Slow-action type AC-15 220V/6A 380V/4A 660V/2A	DC-13 24V/6A 48V/3A 110V/1A 220V/0.5A 440V/0.25A
Contact resistance	silver alloy contact ≤ 50mΩ	
Rated impulse withstand voltage U _{imp}	AC 2500V 50Hz·1min	
Mechanical endurance	Momentary Pushbutton ≥ 3 × 10 ⁶ times, selector switch ≥ 30 × 10 ⁴ times, key switch ≥ 5 × 10 ⁴ times, emergency stop Pushbutton ≥ 5 × 10 ⁴ times	
Electric life	≥ 60 × 10 ⁴ times	
Conventional thermal current	I _{th} 10A	
Rated insulation voltage	U _i AC660V	
Ambient temperature	-25 C ~ +55 C	
Protection class of the front part	Defaulted as IP54. Please mark "-IP65" after the model when ordering the products if IP65 is required; the key button is IP40. The flat head circular button of LA39-A /B type can be equipped with F1 to become IP67	

Description of LA39-(A, B, C) Series Pushbutton

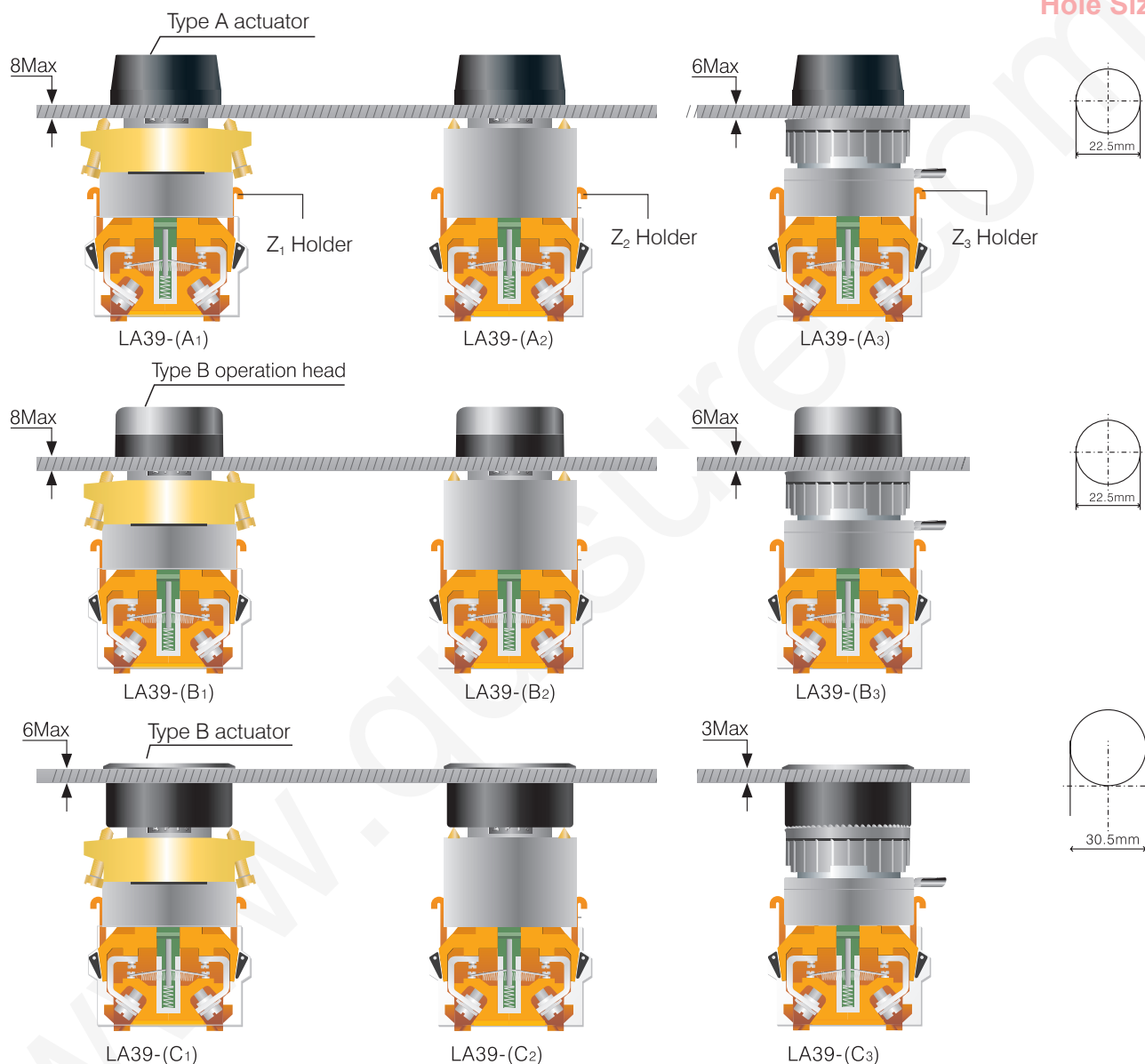
Component Materials

Outer Ring of Actuator	Holder	Actuator	Contact	Switch Shell	Contact Chip
AL Black	Zn or PBT.PA	PC	AgNi	PC	Cu

Standards

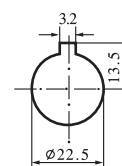
IEC 60947/GB 14048.5

Hole Size

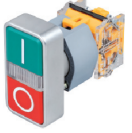

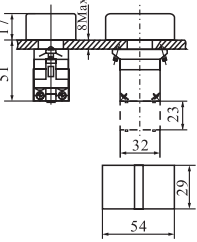
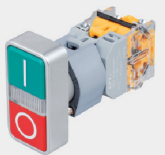


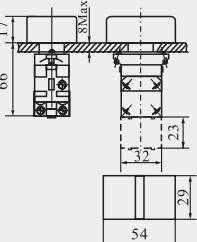

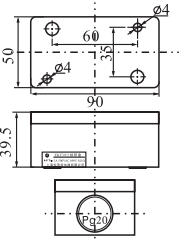

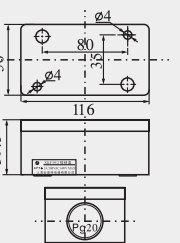


Features:



- LA39-(A₁B₁C₁): have distinctive visual profile with elegant lines. The inclined screws are used for installation and fixation, which meets European and American strict, solid and reliable project design philosophy.
- LA39-(A₂B₂C₂): have clear visual arrangement. The high-strength PBT plastic parts are combined with the straight screws for fixation, which not only continues the stable and solid feature of A₁B₁C₁, but also considers the manufacturing cost. It is the simplified type of A₁B₁C₁ to provide the multiple economic options to the users.
- LA39-(A₃B₃C₃): The nuts are used for fixation, simple and easy, which can reduce the installation difficulty and the work load of the users. The installation reliability may be reduced due to the influence of ambient temperature. It is suggested that such installation mode shall not be used when the selector switches and key switches which have switching work status are used. The selector switches cannot be used when C₃ is selected. The retainer ring shall be installed when A₃ and B₃ choose the selector switches. The hole opening size is shown on the right figure.



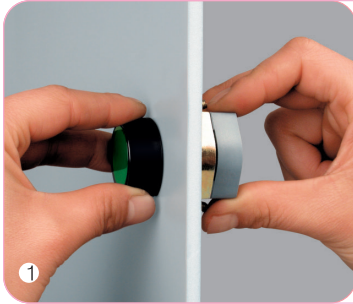
LA39 Series Multi-position Pushbutton Model Selection

Name	Type	Model	Color	Lamp Voltage	Appearance dimension	Description
Twin pushbuttons		LA39-B ₂ -  R/rg	The Pushbuttons are red-green			<ol style="list-style-type: none"> The contact action shall be Momentary type. The contact can be added or changed if necessary. The lighting is located in the middle of the twin pushbuttons. It is used for the startup and stop control of the motor or load.
Illuminated Twin pushbuttons		LA39-B ₂ -  RD/rg 	The Pushbuttons are red-green and the light is yellow	LED LS 21-AC.DC 6V 22-AC.DC 12V 23-AC.DC 24V 24-AC.DC 36V 25-AC.DC 48V 26-AC.DC 110V 27-AC.DC 127V 28-DC 220V 31-AC 220V 32-AC 380V		<ol style="list-style-type: none"> The contact action shall be Momentary type. The contact can be added or changed if necessary. The lighting is located in the middle of the twin pushbuttons. It is used for the startup and stop control of the motor or load.
Twin pushbuttons with enclosure		LA39-A-11RH/r.g	The Pushbuttons are red-green			It is used for the startup and stop control of the motor <ol style="list-style-type: none"> Each-position Pushbutton is with one independent open and closed contact. The action of all contacts is peristaltic.
Three-position Pushbutton with enclosure		LA39-A-11SH/r.g.w	The Pushbuttons are red-green-white			It is used for the backward and forward rotation as well as the stop control of the motor <ol style="list-style-type: none"> Each-position Pushbutton is with one independent open and closed contact. The action of all contacts is peristaltic.

Description:

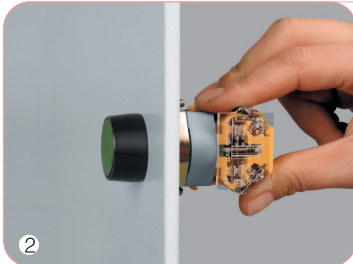
-  before the oblique line shall be filled with the number of NO and NC contacts.
-  after the oblique line is filled with the voltage class of the light.

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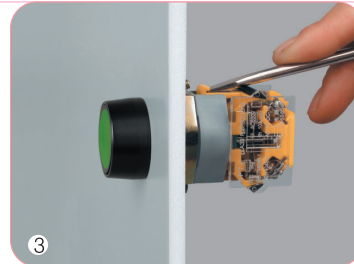


Insert the actuator into the installation hole in the front of the panel and rotate it into the holder. Then tighten the fixing screws on both ends evenly (no excessive force is allowed. The maximum torque is 25N-cm). If the panel is made of other non-metal materials such as plastic, a mounting plate can be backed on the panel (refer to accessory F5) before installation. When the diameter of the installation hole is 25mm, a piece of Ø25 mounting plate can be backed on the panel (refer to accessory F6) before installation.

For the Pushbutton with Z₂ holder, disassemble the switching elements with the holder together. For the Pushbutton with Z₂ holder, disassemble the switching elements before installing the holder. For the Pushbutton with Z₃ holder, disassemble the switching elements first. Insert the holder into the actuator and then fasten the nuts on the holder after turning the holder clockwise. Note: if the Pushbutton is blocked after installation, adjust the two fixing screws on the holder to keep the same tightness.



Buckle the switching elements directly. The actuator symbol can be installed directly in the front (normally, it has been installed before out of the factory). When the illuminated pushbutton is installed, buckle the lampholder first and switching elements successively. Note: after installation, check if the buckle of the switching elements is completely locked.



Remove the switching elements or lampholder: remove the locked assemblies freely and easily by lifting the buckle of the locking system with a screwdriver.

Hint: the white point of the short handle and the tip of the long handle shall be upward during the selector switch installation.

Hole Size

Type AB Normal Pushbuttons, Illuminated Pushbuttons, Key switches and selector switches	Type A.B Mushroom Pushbuttons and Long-handle selector switches	Type C, Normal Pushbuttons, Illuminated Pushbuttons, Key Pushbuttons and selector switches	Type C Mushroom Pushbuttons and Long-handle selector switches
<p>Note: the minimum size shall be 35×50 when Z₃ holder is selected for installation.</p>			

Printing Label of Contact

The figures of the contact wiring terminal are expressed by two digits, "1" at tens indicates the 1st pair of contacts on the first pitch of switching element, and "2" at tens indicates the 2nd pair of contacts on the first pitch of switching element. "1 and 2" at units indicates the two wiring terminals of the NCcontact, and "3 and 4" at units indicates the two wiring terminals of NOcontact.

Functional Diagram for Switching Elements of selector switches and Key switches

2-position			3-position			3-position		
Printing label of contact	(Zero position)	Contact code	Printing label of contact	(Zero position)	Contact code	Printing label of contact	(Zero position)	Contact code
11-12		11	11-12		11	13-14		20
23-24		11	23-24		11	23-24		20
11-12		02	11-12		02	31		Wiring 02
21-22		02	21-22		02	41		
13-14		20	13-14		20	Description		
23-24		20	23-24		20		indicates the closed status of the contact	
13-14		11	13-14		11		indicates the open status of the contact	
21-22		11	21-22		11	(Zero position): indicates the position of th		