## LA39-A Selector \& Key Switch 22mm Siemens APT

## Model definition



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 <br> 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 $\cdot \mathrm{DC}$ |  |  |  |  |  |  |  |  |  |
| Voltage | 6 V | 12 V | 24 V | 36 V | 48 V | 110 V | 127 V | 220 V | 220 V | 380 V |

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 $\leq 50 \mathrm{~m} \Omega$ |  |
| Rated impulse withstand voltage Uimp | AC $2500 \mathrm{~V} 50 \mathrm{~Hz} \cdot 1 \mathrm{~min}$ |  |
| Mechanical endurance | Momentary Pushbutton $\geq 3 \times 10^{6}$ times, selector switch $\geq 30 \times 10^{4}$ times, key switch $\geq 5 \times 10^{4}$ times, emergency stop Pushbutton $\geq 5 \times 10^{4}$ times |  |
| Electric life | $\geq 60 \times 10^{4}$ times |  |
| Conventional thermal current | Ith 10A |  |
| Rated insulation voltage | Ui AC660V |  |
| Ambient temperature | $-25^{\circ} \mathrm{C} \sim+55^{\circ} \mathrm{C}$ |  |
| 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. <br> The flat head circular button of LA39-A /B type can be equipped with F1 to become IP67 |  |

## Component Materials

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

## Standards <br> IEC 60947/GB 14048.5



## Features:

1. LA39- $\left(A_{1} B_{1} C_{1}\right)$ : 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.
2. LA39- $\left(\mathrm{A}_{2} \mathrm{~B}_{2} \mathrm{C}_{2}\right)$ : 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.
3. LA39- $\left(\mathrm{A}_{3} \mathrm{~B}_{3} \mathrm{C}_{3}\right)$ : 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 C 3 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.

## 22mm LA39-A Selector \& Key Switch Model Selection

| Name | Type |  | Handle Position \& Model | Color | Lamp Voltage | Appearance dimension |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Short- <br> handle <br> selector <br> switch |  |  | LA39-A1- LA39-A, | red-r <br> green-g <br> yellow-y <br> black-k |  |  |
| Longselector switch |  |  | L C R <br> LA39-A1- <br> LA39-A - ECXS/四fu <br> LA39-A- | red-r <br> green-g <br> yellow-y <br> black-k |  |  |
| Illuminated <br> selector <br> switch |  |  |  | red-r <br> green-g <br> yellow-y <br> white-w <br> blue-b | LED LS <br> 21-AC.DC 6V <br> 22-AC.DC 12 V <br> 23-AC.DC 24 V <br> 24-AC.DC 36V <br> 25-AC.DC 48V <br> 26-AC.DC 110V <br> 27-AC.DC 127V <br> 28-DC 220V <br> 31-AC 220 V <br> 32-AC 380V |  |
| Key switch |  |  |  |  | a <br> ao <br> au <br> Every pull-out position can be custom-made for any special requirement. Note: for reset key switches, the key pull-out position shall not be reset action positio |  |

## Description:

1. 0 . before the oblique line shall be filled with the number of $N O$ and $N C$ contacts.
2. $\mathbb{N}$ after the oblique line shall be filled with the color, 唔 shall be filled with the voltage class of the light.
3. The light source of the illuminated pushbutton shall all be high bright pure LED.
4. If $Z_{2}$ and $Z_{3}$ holders are required during ordering, $A_{1}$ in the model can be changed to $A_{2}$ or $A_{3}$.


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 |
| :---: | :---: | :---: | :---: |
| Note: the minimum size shall be $35 \times 50$ when $\mathrm{Z}_{3}$ holder is selected for installation. |  |  |  |

## Printing Label of Contact

The figures of the contact wiring terminal are expressed by two digits, "1" at tens indicates the $1^{\text {st }}$ pair of contacts on the first pitch of switching element, and " 2 " at tens indicates the $2^{\text {nd }}$ 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


| Printing label <br> of contact (Zero position) Contact code |
| :--- |
|  |
|  |
|  |
|  |
|  |

(Zero position): indicates the position of th

| Name | Type | Model | Material | Applications |
| :---: | :---: | :---: | :---: | :---: |
| Protective cap |  | F1 | Silicone | It is installed on the Pushbutton actuator to resist the water and dust. The protection class reaches IP67. |
| Guard Cover |  | F2 | Stainless steel | It is installed on the Pushbutton actuator to prevent bumping and misoperation. |
| Protective Cover |  | F3-1 | Plastic | It is installed on the actuator of the flat round pushbutton to prevent bumping and misoperation. It can be sealed off. |
|  |  | F3-2 | Plastic | Plastic It is installed on the actuator of the short-handle selector switch, illuminated selector switch and key switch to prevent bumping and misoperation. It can be sealed off. |
|  |  | F3-3 | Plastic | It is installed on the actuator of $\varnothing 40$ mushroom pushbutton, $\varnothing 40$ emergency stop pushbutton, and key-reset emergency stop pushbutton to prevent bumping and misoperation. It can be sealed off. |
| Joint Guard Cover |  | F4 | Plastic | It is installed behind the wiring screws of the switching element to prevent electric shock. |
| $\varnothing 22$ Mounting Plate |  | F5 | Iron | The mounting plate shall be provided to improve the strength when the box panel is made of plastic. |
| Ø 25 Mounting Plate |  | F6 | Iron | This mounting plate shall be provided when the hole size on the panel is $\varnothing 25$. |

## LA39 Series Pushbutton Accessories

| Name | Type | Model | Material | Applications |
| :---: | :---: | :---: | :---: | :---: |
| Ø30 Diameter -altering Ring |  | F7 | Plastic | This Diameter -altering Ring shall be provided when the hole size on the panel is $\varnothing 30$. |
| $\varnothing 30$ Diameter altering Nu |  | F8 | Aluminum alloy | It is used for the panel with hole size of $\varnothing 30$ and also can achieve the effect of an ultrathin pushbutton. |
| Round inscription label | STO | F9 | Plastic | It is installed in the transparent pushbutton chip of the round Pushbutton as the symbol indication. |
| Square inscription label | $5 T$ | F10 | Plastic | It is installed in the transparent pushbutton chip of the square Pushbutton as the symbol indication. |
| Label holder |  | F11-10 <br> Written Area: <br> $25 \times 10 \mathrm{~mm}$ <br> F11-18 <br> Written Area: <br> $25 \times 18 \mathrm{~mm}$ | Plastic | It is hung on the Pushbutton or indicator as the symbol indication or literal description. |
| Label Plate |  | F12 (Round) F12a (Square) | Plastic | It is hung on the Pushbutton or indicator as the symbol indication or literal description. |


| Name | Material |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Warning Ring |  |  | Applications |

## LA39 Series Pushbutton Accessories

| Name | Model | Material | Applications |
| :---: | :---: | :---: | :---: |
| Blanking plug | ABS | It is used to block the reserved holes or <br> redundant holes. |  |
| Switch Seat | P19 | P22 | It is installed on the end of the button <br> to increase or reduce the contacts. <br> The two digits in the model indicate |
| the number of the normally open and |  |  |  |
| normally closed contacts. |  |  |  |


| Name | Type | Model |  | Description |
| :---: | :---: | :---: | :---: | :---: |
|  | （A） <br> （B） <br> （C） | Normal pushbuttons <br> Maintained pushbuttons | LA39－A－／ $\mathbb{N}^{\mathbb{V}}$ <br> LA39－B－／ $\mathbb{N}$ <br> LA39－C－／ <br> LA39－A－T／ $\mathbb{\mathbb { N }}$ <br> LA39－B－T／⿷匚 <br> LA39－C－T／斎 | The color is filled in the $\mathbb{N}$ after the oblique line． |
|  | （A） <br> （B） <br> （C） | High－position pushbuttons <br> High－position Maintained pushbuttons | LA39－A－／ <br> LA39－B－／ $\mathbb{N}_{\mathbf{V}}-\mathrm{H}$ <br> LA39－C－／ $\mathbb{N}_{\mathbf{V}}-\mathrm{H}$ <br> LA39－A－T／ $\mathbb{N}-\mathrm{H}$ <br> LA39－B－T／ $\mathbb{V}-\mathrm{H}$ <br> LA39－C－T／ $\mathbb{W}$－H | The color is filled in the $\mathbb{\mathbb { V }}$ after the oblique line． |
|  | （A） <br> （B） <br> （C） | Two－position <br> Three－position | $\begin{aligned} & \text { LA39-A-X/ } \square \\ & \text { LA39-B-X/ } \square \\ & \text { LA39-C-X/ } \square \\ & \text { LA39-A-XS/ } \square \\ & \text { LA39-B-XS/ } \square \\ & \text { LA39-C-XS/ } \square \end{aligned}$ | The color is filled in the oblique line $\mathbb{\mathbb { V }} \square$ is filled with reset form． |
|  | （A） <br> （B） <br> （C） | Two－position <br> Three－position | $\begin{aligned} & \text { LA39-A-CX/ } \square \\ & \text { LA39-B-CX/ } \square \square \\ & \text { LA39-C-CX } \mathbb{N} \square \end{aligned}$ <br> LA39－A－CXS／ $\square$ <br> LA39－B－CXS／ $\square$ <br> LA39－C－CXS／ $\square$ | The color is filled in the oblique line $\mathbb{\mathbb { V }}, \square$ is filled with reset form． |
|  | （A） | Two－position <br> Three－position | $\begin{aligned} & \text { LA39-A-XD/ } \\ & \text { LA39-B-XD/ } \\ & \text { LA39-C-XD/ } \\ & \text { LA39-A-XSD/ } \\ & \text { LA39-B-XSD/ } \\ & \text { LA39-C-XSD/ } \end{aligned}$ | The color is filled in the oblique line $\mathbb{N}, \square$ is filled with reset form． |
|  |  | Normal pushbuttons <br> Illuminated pushbuttons | LA39-B-R/r.g LA39-B-RD/r.g | 1．The action of all contacts is Momentary． <br> 2．The contact shall be increased or changed if necessary and the lighting is located in the middle of the two Pushbuttons． <br> 3．It is used for the startup and stop control of the motor or load． |

## LA39 Series Pushbutton Accessories



