3LB Control Switches with Non-Standard Contact Arrangement

Instructions for filling in the order form, with example

(When re-ordering, it is only necessary to state the Order No. and the switch number given by the factory for the first order.)

I Select type of switch

<table>
<thead>
<tr>
<th>Type</th>
<th>Switch Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>25A/240 V</td>
<td>3LB3</td>
</tr>
<tr>
<td>40A/240 V</td>
<td>3LB4</td>
</tr>
<tr>
<td>63A/240 V</td>
<td>3LB5</td>
</tr>
</tbody>
</table>

II Specify switch model

<table>
<thead>
<tr>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Embedded switch</td>
</tr>
<tr>
<td>Switch insert</td>
</tr>
<tr>
<td>Moulded-plastic enclosure</td>
</tr>
<tr>
<td>Cast-metal enclosure</td>
</tr>
</tbody>
</table>

III Complete the diagram for contact arrangement

IV Mark a cross against operating angle

V Add the number of contacts as the 7th and 8th position

VI Enter terminal connections

VII Select actuator

<table>
<thead>
<tr>
<th>Actuator</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free shaft end</td>
<td>00</td>
</tr>
<tr>
<td>Knob black</td>
<td>01</td>
</tr>
<tr>
<td>red yellow</td>
<td>10</td>
</tr>
<tr>
<td>red</td>
<td>02</td>
</tr>
<tr>
<td>red yellow</td>
<td>03</td>
</tr>
<tr>
<td>Rotary actuator</td>
<td>04</td>
</tr>
<tr>
<td>black</td>
<td>50</td>
</tr>
<tr>
<td>red yellow</td>
<td>51</td>
</tr>
<tr>
<td>red</td>
<td>52</td>
</tr>
</tbody>
</table>

VIII Mark a cross against closure of the contacts

IX Verify the largest possible number of contacts

<table>
<thead>
<tr>
<th>Contacts</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>3LB3</td>
<td>5</td>
</tr>
<tr>
<td>3LB4</td>
<td>6</td>
</tr>
<tr>
<td>3LB5</td>
<td>6</td>
</tr>
</tbody>
</table>

X Enter number of contacts as the 7th and 8th position of Order No.

XI IV Add the number of contacts as the 7th and 8th position of Order No.

XII Specify actuating functions

<table>
<thead>
<tr>
<th>Function</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add supplement as 11th and 12th position of Order No.</td>
<td></td>
</tr>
</tbody>
</table>

XIII Enter terminal connections (see "Example of contact arrangement plan")

XIV Verify the largest possible number of contacts

XV Add the number of contacts as the 7th and 8th position of Order No.

XVI Mark a cross against operating angle

XVII Add supplement as 11th and 12th position of Order No.

XVIII Complete the diagram for contact arrangement

XIX Complete the diagram for contact arrangement

XX Complete the diagram for contact arrangement

XXI Select actuator

XXII Add the number of contacts as the 7th and 8th position of Order No.

XXIII Enter terminal connections

XXIV Select actuator

XXV Add the number of contacts as the 7th and 8th position of Order No.

XXVI Complete the diagram for contact arrangement

XXVII Select actuator

XXVIII Add the number of contacts as the 7th and 8th position of Order No.

XXIX Enter terminal connections

XXX Select actuator

XXXI Add the number of contacts as the 7th and 8th position of Order No.

XXXII Complete the diagram for contact arrangement

XXXIII Select actuator

XXXIV Add the number of contacts as the 7th and 8th position of Order No.

XXXV Enter terminal connections

XXXVI Select actuator

XXXVII Add the number of contacts as the 7th and 8th position of Order No.

XXXVIII Enter terminal connections

XXXIX Complete the diagram for contact arrangement

Our application engineers will assist you in filling in the forms. Please ring your local representative.
When first ordering:
Depending on ordering item, fill in an order form (order accessories and detachable actuators for switch inserts separately).

For follow-up orders, it is sufficient to specify the Order No. and the switch number given by the factory on receipt of the first order.

<table>
<thead>
<tr>
<th>Date</th>
<th>Order code 1 (purchaser)</th>
<th>Order code 2</th>
<th>Order reference of the supplier</th>
</tr>
</thead>
</table>

**Order form**

- **Order form item No.**
- **Quantity**

**Order No.**

- I II III/6 IV V III/2
- 123, 45, 67, 89, 101112

**Position of the Order No.**

- 11th and 12th

**Standard actuators**

- Embedded switch
- 3LB3 23 – Z
- 3LB4 23 – Z
- 3LB5 23 – Z

- Switch insert
- 3LB3 00 – Z
- 3LB4 00 – Z
- 3LB5 00 – Z

- Moulded-plastic enclosure
- 3LB3 60 – Z
- 3LB4 60 – Z
- 3LB5 60 – Z

- Cast-metal enclosure
- 3LB3 70 – Z
- 3LB4 70 – Z
- 3LB5 70 – Z

- Space for factory notes

**3LB Control Switches**

*with Non-Standard Contact Arrangement*

**Order form**

- **Order No.**
- **Switch number**

**Contact arrangement plan**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Switch number</th>
</tr>
</thead>
</table>

**Explanation of the contact arrangement symbols**

- **Contact closed**
- **Contact closed without interruption on changeover**
- **For 45° and 90° only**
- **Contact closed with interruption on changeover**
- **Contact closes before other open (contact overlap)**
- **Contact briefly closed between 2 switch positions (fleeting contact)**

**Number of contact units**

- Order No., 7th + 8th digits

**Terminal connections**

- Terminal connections

**Explanation of the contact arrangement schema**

- **Contact closed**
- **Contact closed without interruption on changeover**
- **For 45° and 90° only**
- **Contact closed with interruption on changeover**
- **Contact closes before other open (contact overlap)**
- **Contact briefly closed between 2 switch positions (fleeting contact)**

**Switch angle**

- **Positions and inscriptions of switch positions**

**Reset**

- **Reverse block**

**Switching sequence**

- **Order number of stops here**
- 360° switching
- From switching position
- To switching position

Siemens NS K, 2000
### Selection and ordering data for basic switches

When ordering, quote the Order No. and use order form as per page 15/23 or specify switch numbers.

#### Embedded switches, front mounting

- **3LB4 control switches**
  - 25 mm x 25 mm
  - Degree of protection IP 40

#### Switch inserts, front mounting

- **3LB0 control switches**
  - 50 mm x 50 mm
  - Degree of protection IP 00

#### Enclosed switches

- **3LB3 control switches**
  - Moulded-plastic enclosure
  - Degree of protection IP 54

- **3LB5 control switches**
  - Cast-metal enclosure
  - Degree of protection IP 54

#### Order No.

- 3LB3 230–2Z.01
  - Order No.
  - 0.24 kg

- 3LB3 000–2Z.00
  - Order No.
  - 0.20 kg

- 3LB3 600–2Z.03
  - Order No.
  - 0.53 kg

- 3LB3 700–2Z.03
  - Order No.
  - 0.80 kg

#### Weight

- 3LB4 control switches
  - 3LB4 230–4Z.01
    - Weight
    - 0.34 kg

- 3LB4 000–4Z.00
  - Weight
  - 0.32 kg

- 3LB4 600–4Z.03
  - Weight
  - 0.62 kg

- 3LB4 700–4Z.03
  - Weight
  - 0.82 kg

#### Summary

In the selection tables, the control switches are listed with their standard actuators (11th and 12th position of the Order No.). If other actuators are required, please insert an Order No. supplement in accordance with the table above on page 15/26.

Example:

If a 3LB5 237–1AA 01 switch is to be supplied with a red knob instead of a black knob, the Order No. changes to 3LB5 237–1AA 02.

For other actuators see page 15/26.

1) For replacement switch inserts see page 15/13.
2) Not available for all contact arrangements, please consult your local Siemens office.

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Siemens NS K 2000
### Additional features for control switches

<table>
<thead>
<tr>
<th>Additional feature</th>
<th>Order No. supplement</th>
<th>Additional price for switches with</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>– Not available</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Available with additional price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 3LB3 control switches

- **3LB3 23 embedded switches, 3LB3 00 switch inserts**
  - Without additional feature: A
  - With 360° switching: B
  - With 360° switching and reversing block: C
  - With resetting block: D

#### 3LB4 control switches

- **3LB4 23 embedded switches, 3LB4 00 switch inserts**
  - Without additional feature: A
  - With 360° switching: B
  - With 360° switching and reversing block: C
  - With resetting block: D

#### 3LB5 control switches

- **3LB5 23 embedded switches, 3LB5 00 switch inserts**
  - Without additional feature: A
  - With 360° switching: B

### Order No. supplement for basic switches

**3LB Control Switches with Non-Standard Contact Arrangement**

**Order No. supplement for basic switches**

<table>
<thead>
<tr>
<th>Switching elements</th>
<th>3LB ... Z O</th>
</tr>
</thead>
</table>