



BASIC SWITCH FOR POSITION SWITCH 3SE51, ATEX METAL ENCLOSURE  
56MM WIDE DEVICE CONNECTION 3X (M20X1.5) 1NO/1NC SLOW-ACTION  
CONTACTS W/O ACTUATOR HEAD W/O ACTUATOR HEAD

|                                                                   |                                                      |
|-------------------------------------------------------------------|------------------------------------------------------|
| product brand name                                                | SIRIUS                                               |
| product designation                                               | Mechanical safety switches                           |
| product type designation                                          | 3SE5                                                 |
| manufacturer's article number                                     |                                                      |
| • of the supplied switching contacts                              | <a href="#">3SE5000-0BA00</a>                        |
| suitability for use safety switch                                 | Yes                                                  |
| <b>General technical data</b>                                     |                                                      |
| product function positive opening                                 | Yes                                                  |
| insulation voltage rated value                                    | 400 V                                                |
| degree of pollution                                               | class 3                                              |
| surge voltage resistance rated value                              | 6 kV                                                 |
| protection class IP                                               | IP66/IP67                                            |
| shock resistance                                                  |                                                      |
| • according to IEC 60068-2-27                                     | 30 g / 11 ms                                         |
| vibration resistance according to IEC 60068-2-6                   | 0.35 mm/5 g                                          |
| mechanical service life (operating cycles) typical                | 15 000 000                                           |
| electrical endurance (operating cycles) at AC-15 at 230 V typical | 100 000                                              |
| thermal current                                                   | 6 A                                                  |
| reference code according to IEC 81346-2                           | B                                                    |
| continuous current of the C characteristic MCB                    | 1 A; for a short-circuit current smaller than 400 A  |
| continuous current of the quick DIAZED fuse link                  | 10 A; for a short-circuit current smaller than 400 A |
| continuous current of the DIAZED fuse link gG                     | 6 A                                                  |
| active principle                                                  | mechanical                                           |
| repeat accuracy                                                   | 0.05 mm                                              |
| Substance Prohibitance (day/month/year)                           | 07/01/2006                                           |
| Net Weight                                                        | 0.436 kg                                             |
| minimum actuating force in directions of actuation                | 20 N                                                 |
| length of the sensor                                              | 85.7 mm                                              |
| width of the sensor                                               | 56 mm                                                |
| <b>Ambient conditions</b>                                         |                                                      |
| ambient temperature                                               |                                                      |
| • during operation                                                | -25 ... +85 °C                                       |
| • during storage                                                  | -40 ... +90 °C                                       |
| explosion protection category for dust                            | Zone 21, 94/9/EC II 2D                               |
| <b>Main circuit</b>                                               |                                                      |
| design of the switching contact                                   | mechanical                                           |
| operating frequency rated value                                   | 50 ... 60 Hz                                         |
| number of NC contacts for auxiliary contacts                      | 1                                                    |
| number of NO contacts for auxiliary contacts                      | 1                                                    |

|                                     |        |
|-------------------------------------|--------|
| <b>operational current at AC-15</b> |        |
| • at 24 V rated value               | 6 A    |
| • at 125 V rated value              | 6 A    |
| • at 230 V rated value              | 3 A    |
| <b>operational current at DC-13</b> |        |
| • at 24 V rated value               | 3 A    |
| • at 125 V rated value              | 0.55 A |
| • at 230 V rated value              | 0.27 A |

#### Enclosure

|                                                    |                      |
|----------------------------------------------------|----------------------|
| <b>design of the housing</b>                       | block, wide          |
| <b>material of the enclosure</b>                   | metal                |
| <b>coating of the enclosure</b>                    | cathodic dip coating |
| <b>design of the housing according to standard</b> | No                   |

#### Drive Head

|                                             |                                                                  |
|---------------------------------------------|------------------------------------------------------------------|
| <b>design of the actuating element</b>      | Other, without, basic switch                                     |
| <b>design of the switching function</b>     | Positive opening with appropriate positive opening actuator head |
| <b>circuit principle</b>                    | slow-action contacts                                             |
| number of switching contacts safety-related | 1                                                                |
| <b>cable entry type</b>                     | 3x (M20 x 1.5)                                                   |

#### Installation/ mounting/ dimensions

|                          |              |
|--------------------------|--------------|
| <b>mounting position</b> | any          |
| <b>fastening method</b>  | screw fixing |

#### Connections/ Terminals

|                                                          |                                                                       |
|----------------------------------------------------------|-----------------------------------------------------------------------|
| <b>type of electrical connection</b>                     | screw terminal                                                        |
| <b>type of connectable conductor cross-sections</b>      |                                                                       |
| • solid                                                  | 1x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.5 ... 0.75 mm <sup>2</sup> ) |
| • finely stranded with core end processing               | 1x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.5 ... 0.75 mm <sup>2</sup> ) |
| • for AWG cables solid                                   | 1x (20 ... 16), 2x (20 ... 18)                                        |
| • for AWG cables stranded                                | 1x (20 ... 16), 2x (20 ... 18)                                        |
| design of the interface for safety-related communication | without                                                               |

#### Communication/ Protocol

|                                |         |
|--------------------------------|---------|
| <b>design of the interface</b> | without |
|--------------------------------|---------|

#### Approvals Certificates

|                                 |                          |
|---------------------------------|--------------------------|
| <b>General Product Approval</b> | <b>Test Certificates</b> |
|---------------------------------|--------------------------|



[Type Test Certificates/Test Report](#)

|              |                    |
|--------------|--------------------|
| <b>other</b> | <b>Environment</b> |
|--------------|--------------------|

[Confirmation](#)

[Confirmation](#)



[Environmental Confirmations](#)



#### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5122-0BA00-1DA0>

Cax online generator

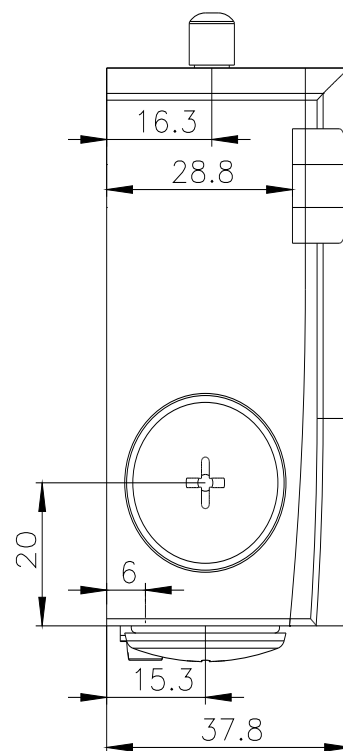
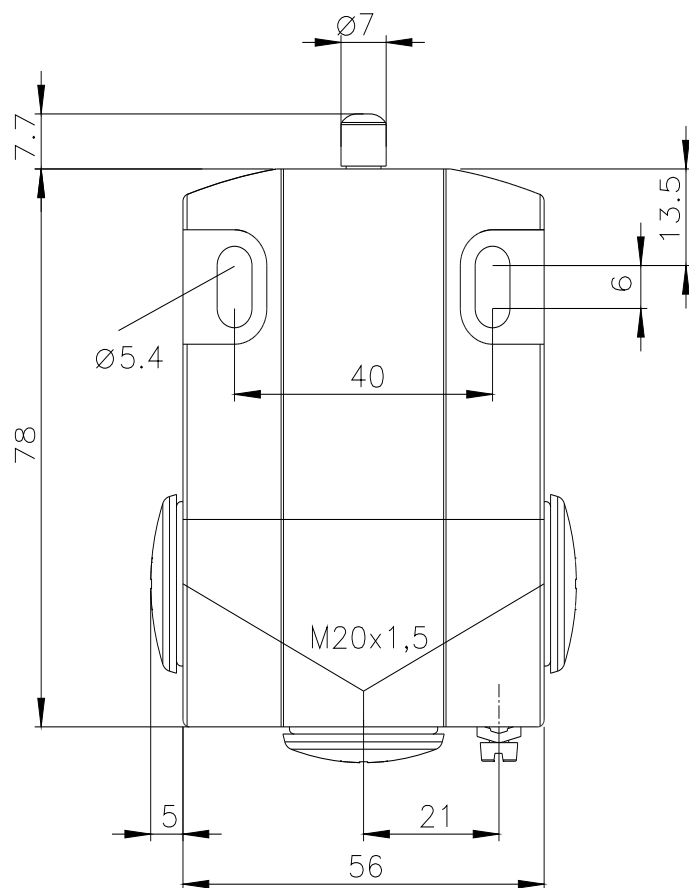
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5122-0BA00-1DA0>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5122-0BA00-1DA0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5122-0BA00-1DA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5122-0BA00-1DA0&lang=en)



last modified:

4/4/2026 