



Safety position switch with tumbler Locking force 2600 N 5 directions of approaches Spring-locked Auxiliary release with lock Magnet voltage 24 V DC Monitoring actuator 2 NC/1 NO Monitoring magnet 2 NC/1 NO Supplied without actuator. Actuator 3SE5000-0AV0. please order separately

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product brand name                                      | SIRIUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| product designation                                     | Mechanical safety switches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| design of the product                                   | with separate actuator and with tumbler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| product type designation                                | 3SE5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| manufacturer's article number of the optional actuators | 3SE5000-0AV01 standard actuator, 3SE5000-0AV02 actuator with vertical fixing, 3SE5000-0AV03 actuator with transverse fixing, 3SE5000-0AV04 radius actuator, approach from left, 3SE5000-0AV05 universal actuator, 3SE5000-0AV06 radius actuator, approach from right, 3SE5000-0AV07 Heavy Duty actuator, 3SE5000-0AW42 actuator with vertical fixing, stainless steel socket, 3SE5000-0AW43 actuator with transverse fixing, stainless steel socket, 3SE5000-0AW51 stainless steel actuator, 3SE5000-0AW52 stainless steel actuator with vertical fixing, 3SE5000-0AW53 stainless steel actuator with transverse fixing |
| suitability for use safety switch                       | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>General technical data</b>                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| product function positive opening                       | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| locking force                                           | 2 600 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| • according to EN ISO 14119                             | 2 000 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| insulation voltage rated value                          | 250 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| degree of pollution                                     | class 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| surge voltage resistance rated value                    | 4 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| protection class IP                                     | IP66/IP67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| shock resistance                                        | 30g / 11 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| • according to IEC 60068-2-27                           | 30g / 11 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| vibration resistance                                    | 0.35 mm / 5g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| • according to IEC 60068-2-6                            | 0.35 mm/5g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| mechanical service life (operating cycles) typical      | 1 000 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| thermal current                                         | 10 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| material of the enclosure of the switch head            | metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 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; for a short-circuit current smaller than 400 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| repeat accuracy                                         | 0.05 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Substance Prohibitance (Date)                           | 10/01/2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SVHC substance name                                     | Blei - 7439-92-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| minimum actuating force in directions of actuation      | 30 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| length of the sensor                                    | 185 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| width of the sensor                                     | 54 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Ambient conditions</b>                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ambient temperature                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| • during operation                                      | -25 ... +60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| • during storage                                        | -40 ... +80 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| explosion protection category for dust                                                                                                                                                                                | none                                                                                                                                                           |
| consumed active power of magnet coil                                                                                                                                                                                  | 3.5 W                                                                                                                                                          |
| operational current at AC-15 <ul style="list-style-type: none"> <li>at 24 V rated value</li> <li>at 120 V rated value</li> <li>at 240 V rated value</li> </ul>                                                        | 6 A<br>6 A<br>3 A                                                                                                                                              |
| operational current at DC-13 <ul style="list-style-type: none"> <li>at 24 V rated value</li> <li>at 125 V rated value</li> <li>at 250 V rated value</li> </ul>                                                        | 3 A<br>0.55 A<br>0.27 A                                                                                                                                        |
| <b>Enclosure</b>                                                                                                                                                                                                      |                                                                                                                                                                |
| design of the housing                                                                                                                                                                                                 | special design                                                                                                                                                 |
| material of the enclosure                                                                                                                                                                                             | metal                                                                                                                                                          |
| coating of the enclosure                                                                                                                                                                                              | cathodic dip coating                                                                                                                                           |
| design of the housing according to standard                                                                                                                                                                           | No                                                                                                                                                             |
| <b>Drive Head</b>                                                                                                                                                                                                     |                                                                                                                                                                |
| design of the actuating element                                                                                                                                                                                       | 5 directions of approach                                                                                                                                       |
| design of the switching function                                                                                                                                                                                      | positive opening                                                                                                                                               |
| number of directions of actuation                                                                                                                                                                                     | 5                                                                                                                                                              |
| circuit principle                                                                                                                                                                                                     | slow-action contacts                                                                                                                                           |
| number of switching contacts safety-related                                                                                                                                                                           | 4                                                                                                                                                              |
| cable entry type                                                                                                                                                                                                      | 3x (M20 x 1.5)                                                                                                                                                 |
| locking mechanism design                                                                                                                                                                                              | spring-actuated lock (closed-circuit principle) with auxiliary release and lock                                                                                |
| <b>Installation/ mounting/ dimensions</b>                                                                                                                                                                             |                                                                                                                                                                |
| mounting position                                                                                                                                                                                                     | any                                                                                                                                                            |
| fastening method                                                                                                                                                                                                      | screw fixing                                                                                                                                                   |
| <b>Connections/ Terminals</b>                                                                                                                                                                                         |                                                                                                                                                                |
| type of electrical connection                                                                                                                                                                                         | screw-type terminals                                                                                                                                           |
| type of connectable conductor cross-sections <ul style="list-style-type: none"> <li>solid</li> <li>finely stranded with core end processing</li> <li>for AWG cables solid</li> <li>for AWG cables stranded</li> </ul> | 1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²)<br>1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²)<br>1x (20 ... 16), 2x (20 ... 18)<br>1x (20 ... 16), 2x (20 ... 18) |
| <b>Supply voltage</b>                                                                                                                                                                                                 |                                                                                                                                                                |
| supply voltage of magnet coil                                                                                                                                                                                         | 24 V                                                                                                                                                           |
| design of the interface for safety-related communication                                                                                                                                                              | without                                                                                                                                                        |
| <b>Communication/ Protocol</b>                                                                                                                                                                                        |                                                                                                                                                                |
| design of the interface                                                                                                                                                                                               | without                                                                                                                                                        |
| <b>Safety related data</b>                                                                                                                                                                                            |                                                                                                                                                                |
| B10 value with high demand rate according to SN 31920                                                                                                                                                                 | 1 000 000                                                                                                                                                      |
| proportion of dangerous failures with high demand rate according to SN 31920                                                                                                                                          | 20 %                                                                                                                                                           |
| <b>Certificates/ approvals</b>                                                                                                                                                                                        |                                                                                                                                                                |
| General Product Approval                                                                                                                                                                                              | Functional Safety/Safety of Machinery                                                                                                                          |



[Confirmation](#)



[Type Examination Certificate](#)

|                           |                   |       |                |
|---------------------------|-------------------|-------|----------------|
| Declaration of Conformity | Test Certificates | other | Dangerous Good |
|---------------------------|-------------------|-------|----------------|



[Type Test Certificates/Test Report](#)

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#### Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

**Siemens is working on the renewal of the current EAC certificates.**

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

**Information on the packaging**

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

**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=3SE5312-0SE11>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5312-0SE11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5312-0SE11>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5312-0SE11&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5312-0SE11&lang=en)



