



safety position switch with guard lock locking force 1300 N 5 approach directions spring-locked emergency release at the rear and auxiliary release on the front magnet voltage 230 V AC monitoring actuator 2 NC/1 NO monitoring magnet 2 NC/1 NO LED display yellow/green supplied without actuator, actuator 3SE5000-0AV0. to be ordered 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                                           | 1 300 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| • according to EN ISO 14119                             | 1 000 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| insulation voltage rated value                          | 250 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| degree of pollution                                     | class 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| surge voltage resistance rated value                    | 4 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| protection class IP                                     | IP65/IP67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| shock resistance                                        | 30g / 11 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| • according to IEC 60068-2-27                           | 30 g / 11 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| vibration resistance                                    | 0.35 mm / 5 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| • according to IEC 60068-2-6                            | 0.35 mm/5 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| mechanical service life (operating cycles) typical      | 1 000 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| thermal current                                         | 10 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| material of the enclosure of the switch head            | plastic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 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 (day/month/year)                 | 10/01/2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SVHC substance name                                     | Lead CAS-No. 7439-92-1<br>Lead monoxide (lead oxide) CAS-No. 1317-36-8<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5<br>Melamine CAS-No. 108-78-1<br>Imidazolidine-2-thione (2-imidazoline-2-thiol) CAS-No. 96-45-7                                                                                                                                                                                                                                                                                                                                                                    |
| Net Weight                                              | 0.83 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 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                                                                                                                                                 |
| explosion protection category for dust                            | none                                                                                                                                                           |
| consumed active power of magnet coil                              | 4 W                                                                                                                                                            |
| operational current at AC-15                                      |                                                                                                                                                                |
| • at 24 V rated value                                             | 6 A                                                                                                                                                            |
| • at 120 V rated value                                            | 6 A                                                                                                                                                            |
| • at 240 V rated value                                            | 3 A                                                                                                                                                            |
| operational current at DC-13                                      |                                                                                                                                                                |
| • at 24 V rated value                                             | 3 A                                                                                                                                                            |
| • at 125 V rated value                                            | 0.55 A                                                                                                                                                         |
| • at 250 V rated value                                            | 0.27 A                                                                                                                                                         |
| <b>Enclosure</b>                                                  |                                                                                                                                                                |
| design of the housing                                             | special design                                                                                                                                                 |
| material of the enclosure                                         | plastic                                                                                                                                                        |
| design of the housing according to standard                       | No                                                                                                                                                             |
| locking mechanism design                                          | spring-actuated lock (closed-circuit principle) with emergency release from the back and auxiliary release from the front and auxiliary release from the front |
| <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)                                                                                                                                                 |
| <b>Installation/ mounting/ dimensions</b>                         |                                                                                                                                                                |
| mounting position                                                 | any                                                                                                                                                            |
| fastening method                                                  | screw fixing                                                                                                                                                   |
| <b>Connections/ Terminals</b>                                     |                                                                                                                                                                |
| type of electrical connection                                     | screw terminal                                                                                                                                                 |
| type of connectable conductor cross-sections                      |                                                                                                                                                                |
| • solid                                                           | 1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²)                                                                                                                    |
| • finely stranded with core end processing                        | 1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²)                                                                                                                    |
| • for AWG cables solid                                            | 1x (20 ... 16), 2x (20 ... 18)                                                                                                                                 |
| • for AWG cables stranded                                         | 1x (20 ... 16), 2x (20 ... 18)                                                                                                                                 |
| <b>Supply voltage</b>                                             |                                                                                                                                                                |
| type of voltage of the supply voltage of the optional LED display | AC                                                                                                                                                             |
| supply voltage of LED                                             |                                                                                                                                                                |
| •                                                                 | 230 V                                                                                                                                                          |
| supply voltage of magnet coil                                     | 230 V                                                                                                                                                          |
| design of the interface for safety-related communication          | without                                                                                                                                                        |
| <b>Communication/ Protocol</b>                                    |                                                                                                                                                                |
| design of the interface                                           | without                                                                                                                                                        |
| <b>Safety related data</b>                                        |                                                                                                                                                                |
| product function suitable for safety function                     | Yes                                                                                                                                                            |
| service life maximum                                              | 20 a                                                                                                                                                           |
| test wear-related service life necessary                          | Yes                                                                                                                                                            |
| proportion of dangerous failures                                  |                                                                                                                                                                |
| • with low demand rate according to SN 31920                      | 20 %                                                                                                                                                           |
| • with high demand rate according to SN 31920                     | 20 %                                                                                                                                                           |
| B10 value with high demand rate according to SN 31920             | 1 000 000                                                                                                                                                      |
| failure rate [FIT] with low demand rate according to SN 31920     | 100 FIT                                                                                                                                                        |
| ISO 13849                                                         |                                                                                                                                                                |
| device type according to ISO 13849-1                              | 3                                                                                                                                                              |

|                                             |                   |
|---------------------------------------------|-------------------|
| IEC 61508                                   |                   |
| safety device type according to IEC 61508-2 | A                 |
| Approvals Certificates                      |                   |
| General Product Approval                    | Test Certificates |



[Type Test Certificates/Test Report](#)

|                              |                                             |
|------------------------------|---------------------------------------------|
| other                        | Environment                                 |
| <a href="#">Confirmation</a> | <a href="#">Confirmation</a>                |
|                              | <a href="#">Environmental Confirmations</a> |
|                              |                                             |

#### 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=3SE5322-3SJ23>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5322-3SJ23>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5322-3SJ23>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5322-3SJ23&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5322-3SJ23&lang=en)

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