



safety position switch with guard lock locking force 1300 N 5 approach directions spring-locked auxiliary release on the front magnet voltage 24 V DC monitoring actuator 2 NC/1 NO monitoring magnet 2 NC/1 NO supplied without actuator, 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   |
| <b>locking force</b>                                      | 1 300 N   |
| • according to EN ISO 14119                               | 1 000 N   |
| <b>insulation voltage rated value</b>                     | 250 V   |
| <b>degree of pollution</b>                                | class 3   |
| <b>surge voltage resistance rated value</b>               | 4 kV  |
| <b>protection class IP</b>                                | IP66/IP67   |
| <b>shock resistance</b>                                   | 30g / 11 ms   |
| • according to IEC 60068-2-27                             | 30 g / 11 ms  |
| <b>vibration resistance</b>                               | 0.35 mm / 5 g   |
| • according to IEC 60068-2-6                              | 0.35 mm/5 g   |
| <b>mechanical service life (operating cycles) typical</b> | 1 000 000   |
| <b>thermal current</b>                                    | 10 A  |
| <b>material of the enclosure of the switch head</b>       | plastic   |
| <b>reference code according to IEC 81346-2</b>            | B   |
| <b>continuous current of the C characteristic MCB</b>     | 1 A; for a short-circuit current smaller than 400 A   |
| <b>continuous current of the quick DIAZED fuse link</b>   | 10 A; for a short-circuit current smaller than 400 A  |
| <b>continuous current of the DIAZED fuse link gG</b>      | 6 A; for a short-circuit current smaller than 400 A   |
| <b>repeat accuracy</b>                                    | 0.05 mm   |
| <b>Substance Prohibitance (day/month/year)</b>            | 10/01/2011  |
| <b>SVHC substance name</b>                                | Lead CAS-No. 7439-92-1<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  |
| <b>Net Weight</b>   | 506 g   |
| <b>minimum actuating force in directions of actuation</b> | 30 N  |
| <b>length of the sensor</b>                               | 185 mm  |

|  |  |
|--|--|
| <b>width of the sensor</b>   | 54 mm  |
| <b>Ambient conditions</b>  |  |
| <b>ambient temperature</b>   |  |
| • during operation   | -25 ... +60 °C   |
| • during storage   | -40 ... +80 °C   |
| <b>explosion protection category for dust</b>                        | none   |
| <b>consumed active power of magnet coil</b>                          | 3.5 W  |
| <b>operational current at AC-15</b>                                  |  |
| • at 24 V rated value  | 6 A  |
| • at 120 V rated value   | 6 A  |
| • at 240 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 250 V rated value   | 0.27 A   |
| <b>Enclosure</b>   |  |
| <b>design of the housing</b>   | special design   |
| <b>material of the enclosure</b>                                     | plastic  |
| <b>design of the housing according to standard</b>                   | No   |
| <b>locking mechanism design</b>                                      | spring-actuated lock (closed-circuit principle) with auxiliary release |
| <b>Drive Head</b>  |  |
| <b>design of the actuating element</b>                               | 5 directions of approach   |
| <b>design of the switching function</b>                              | positive opening   |
| <b>number of directions of actuation</b>                             | 5  |
| <b>circuit principle</b>   | slow-action contacts   |
| number of switching contacts safety-related                          | 4  |
| <b>cable entry type</b>  | 3x (M20 x 1.5)   |
| <b>Installation/ mounting/ dimensions</b>                            |  |
| <b>mounting position</b>   | any  |
| <b>fastening method</b>  | screw fixing   |
| <b>Connections/ Terminals</b>  |  |
| <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)   |
| <b>Supply voltage</b>  |  |
| <b>supply voltage of magnet coil</b>                                 | 24 V   |
| design of the interface for safety-related communication             | without  |
| <b>Communication/ Protocol</b>                                       |  |
| <b>design of the interface</b>                                       | without  |
| <b>Safety related data</b>   |  |
| product function suitable for safety function                        | Yes  |
| <b>service life maximum</b>  | 20 a   |
| <b>test wear-related service life necessary</b>                      | Yes  |
| <b>proportion of dangerous failures</b>                              |  |
| • with low demand rate according to SN 31920                         | 20 %   |
| • with high demand rate according to SN 31920                        | 20 %   |
| <b>B10 value with high demand rate according to SN 31920</b>         | 1 000 000  |
| <b>failure rate [FIT] with low demand rate according to SN 31920</b> | 100 FIT  |
| ISO 13849  |  |
| <b>device type according to ISO 13849-1</b>                          | 3  |
| IEC 61508  |  |
| <b>safety device type according to IEC 61508-2</b>                   | A  |
| <b>Approvals Certificates</b>  |  |
| <b>General Product Approval</b>                                      | <b>Test Certificates</b>   |



[Type Test Certificates/Test Report](#)

other Dangerous goods Environment

[Confirmation](#)

[Confirmation](#)



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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=3SE5322-0SD21>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5322-0SD21>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5322-0SD21>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5322-0SD21&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5322-0SD21&lang=en)

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