



Safety position switch with tumbler Locking force 2600 N 5 directions of approaches Solenoid-locked Magnet voltage 24 V DC Monitoring actuator 2 NC/1 NO Monitoring magnet 2 NC/1 NO LED display yellow/green 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 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                                     | Lead monoxide (lead oxide) - 1317-36-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 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                    | 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>                                             | metal                                        |
| <b>coating of the enclosure</b>                                              | cathodic dip coating                         |
| <b>design of the housing according to standard</b>                           | No                                           |
| <b>locking mechanism design</b>                                              | magnetic field lock (open-circuit principle) |
| <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 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            | DC                                           |
| <b>supply voltage of LED</b>                                                 |                                              |
| •                                                                            | 24 V                                         |
| <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>                                                   |                                              |
| proportion of dangerous failures with high demand rate according to SN 31920 | 50 %                                         |
| <b>B10 value with high demand rate according to SN 31920</b>                 | 1 000 000                                    |
| <b>Approvals Certificates</b>                                                |                                              |
| <b>General Product Approval</b>                                              |                                              |



[Confirmation](#)



|                   |                   |       |                |             |
|-------------------|-------------------|-------|----------------|-------------|
| Functional Safety | Test Certificates | other | Dangerous Good | Environment |
|-------------------|-------------------|-------|----------------|-------------|



[Type Test Certificates/Test Report](#)

[Confirmation](#)

[Transport Information](#)

[Environmental Confirmations](#)

#### Further information

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=3SE5312-1SB11>

Cax online generator

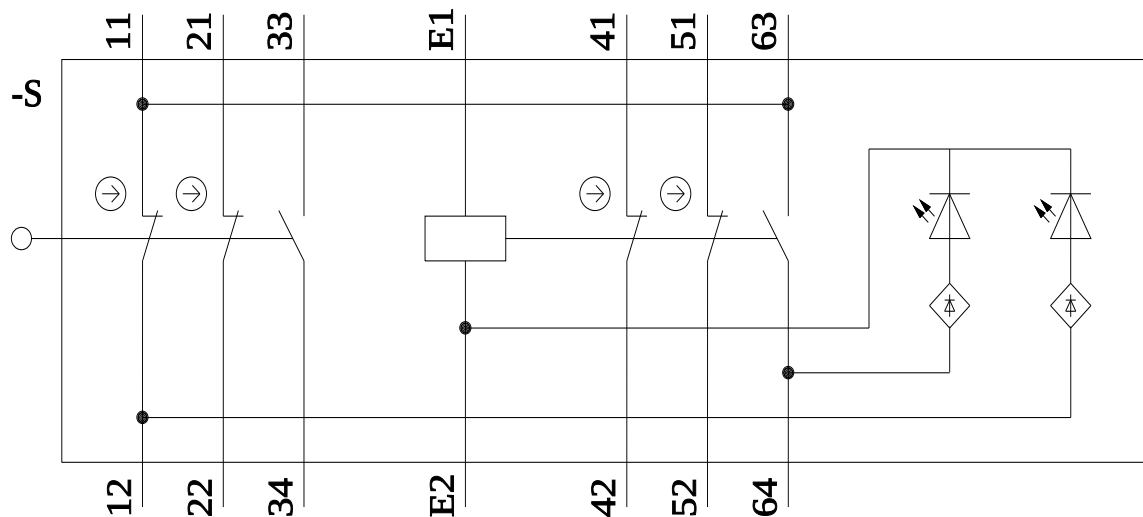
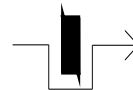
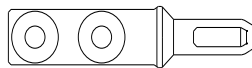
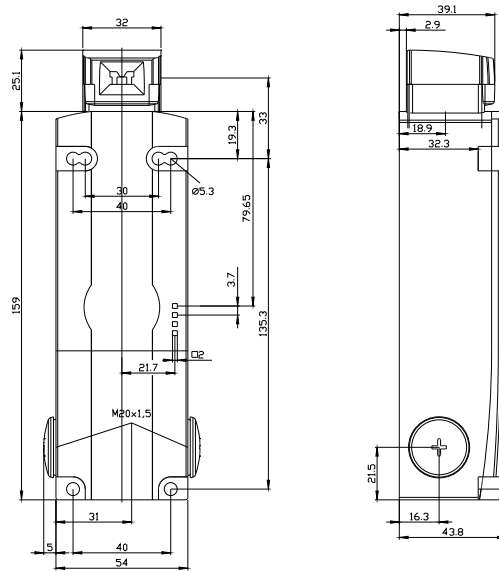
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5312-1SB11>

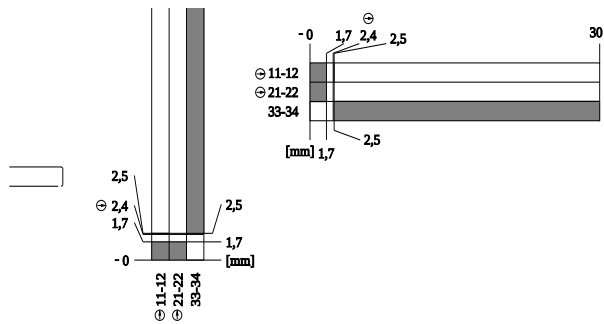
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5312-1SB11>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5312-1SB11&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5312-1SB11&lang=en)





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