



Basic switch for position switch 3SE51 Metal enclosure, according to EN 50041  
Device connection 1 x (M20 x 1.5) 1 NO/2 NC slow-action contacts without actuator head

|                                                                   |                                                          |
|-------------------------------------------------------------------|----------------------------------------------------------|
| product brand name                                                | SIRIUS                                                   |
| product designation                                               | Mechanical safety switches                               |
| product type designation                                          | 3SE5                                                     |
| manufacturer's article number                                     |                                                          |
| • of the supplied switching contacts                              | <a href="#">3SE5000-0KA00</a>                            |
| • of the supplied empty enclosure with cover                      | <a href="#">3SE5112-0AA00</a>                            |
| suitability for use safety switch                                 | Yes                                                      |
| <b>General technical data</b>                                     |                                                          |
| product function positive opening                                 | Yes                                                      |
| insulation voltage rated value                                    | 400 V                                                    |
| degree of pollution                                               | class 3                                                  |
| surge voltage resistance rated value                              | 6 kV                                                     |
| protection class IP                                               | IP66/IP67                                                |
| shock resistance                                                  |                                                          |
| • according to IEC 60068-2-27                                     | 30g / 11 ms                                              |
| vibration resistance according to IEC 60068-2-6                   | 0.35 mm/5g                                               |
| mechanical service life (operating cycles) typical                | 15 000 000                                               |
| electrical endurance (operating cycles) at AC-15 at 230 V typical | 100 000                                                  |
| thermal current                                                   | 10 A                                                     |
| reference code according to IEC 81346-2                           | B                                                        |
| continuous current of the C characteristic MCB                    | 1 A; for a short-circuit current smaller than 400 A      |
| continuous current of the quick DIAZED fuse link                  | 10 A; for a short-circuit current smaller than 400 A     |
| continuous current of the DIAZED fuse link gG                     | 6 A                                                      |
| active principle                                                  | mechanical                                               |
| repeat accuracy                                                   | 0.05 mm                                                  |
| Substance Prohibitance (Date)                                     | 07/01/2006                                               |
| SVHC substance name                                               | Imidazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7 |
| Net Weight                                                        | 0.305 kg                                                 |
| minimum actuating force in directions of actuation                | 20 N                                                     |
| length of the sensor                                              | 85.7 mm                                                  |
| width of the sensor                                               | 40 mm                                                    |
| <b>Ambient conditions</b>                                         |                                                          |
| ambient temperature                                               |                                                          |
| • during operation                                                | -25 ... +85 °C                                           |
| • during storage                                                  | -40 ... +90 °C                                           |
| explosion protection category for dust                            | none                                                     |
| <b>Main circuit</b>                                               |                                                          |
| design of the switching contact                                   | mechanical                                               |
| operating frequency rated value                                   | 50 ... 60 Hz                                             |

|                                                               |                                                                  |
|---------------------------------------------------------------|------------------------------------------------------------------|
| number of NC contacts for auxiliary contacts                  | 2                                                                |
| number of NO contacts for auxiliary contacts                  | 1                                                                |
| <b>operational current at AC-15</b>                           |                                                                  |
| • at 24 V rated value                                         | 6 A                                                              |
| • at 125 V rated value                                        | 6 A                                                              |
| • at 240 V rated value                                        | 6 A                                                              |
| • at 400 V rated value                                        | 4 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                                                           |
| • at 400 V rated value                                        | 0.12 A                                                           |
| <b>Enclosure</b>                                              |                                                                  |
| design of the housing                                         | block, narrow                                                    |
| material of the enclosure                                     | metal                                                            |
| coating of the enclosure                                      | cathodic dip coating                                             |
| design of the housing according to standard                   | Yes                                                              |
| <b>Drive Head</b>                                             |                                                                  |
| design of the actuating element                               | Other, without, basic switch                                     |
| design of the switching function                              | Positive opening with appropriate positive opening actuator head |
| circuit principle                                             | slow-action contacts                                             |
| number of switching contacts safety-related                   | 2                                                                |
| cable entry type                                              | 1x (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)                                   |
| 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         | 10 000 000                                                       |
| failure rate [FIT] with low demand rate according to SN 31920 | 100 FIT                                                          |
| ISO 13849                                                     |                                                                  |
| device type according to ISO 13849-1                          | 3                                                                |
| <b>Approvals Certificates</b>                                 |                                                                  |
| General Product Approval                                      |                                                                  |
| Functional Safety                                             |                                                                  |



[Type Examination Certificate](#)

|                   |       |             |
|-------------------|-------|-------------|
| Test Certificates | other | Environment |
|-------------------|-------|-------------|

### 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=3SE5112-0KA00>

## Cax online generator

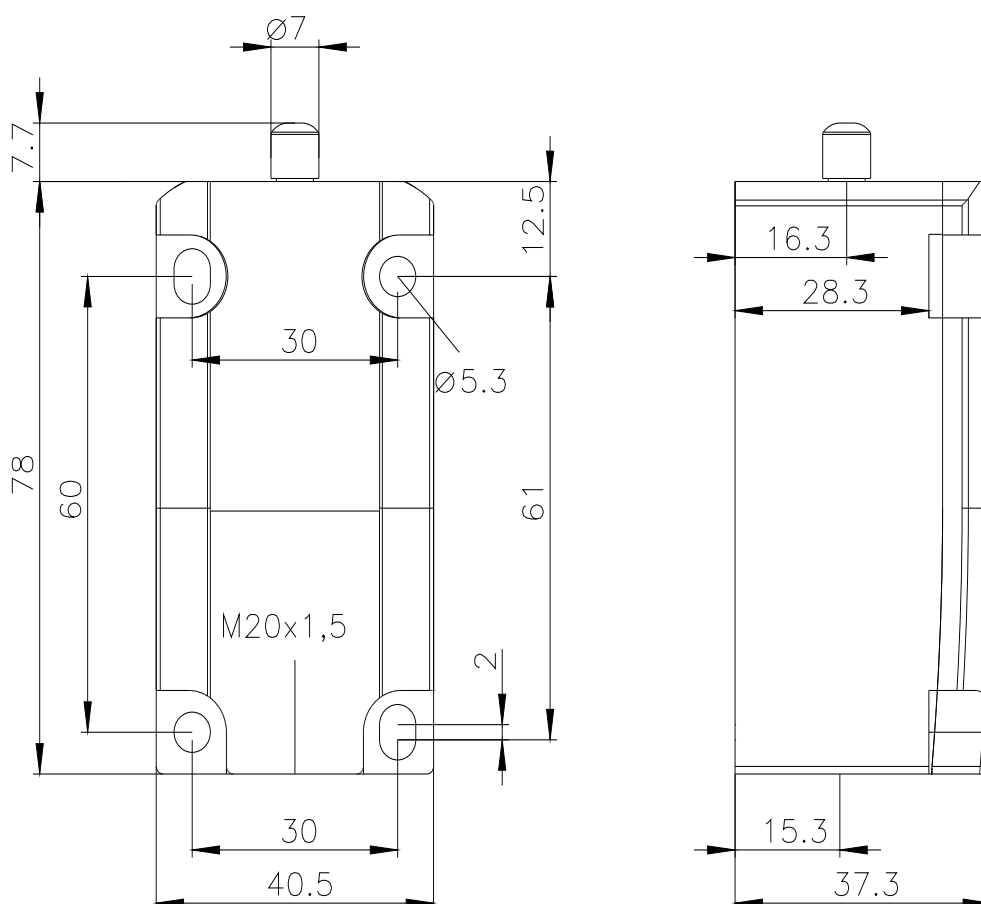
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5112-0KA00>

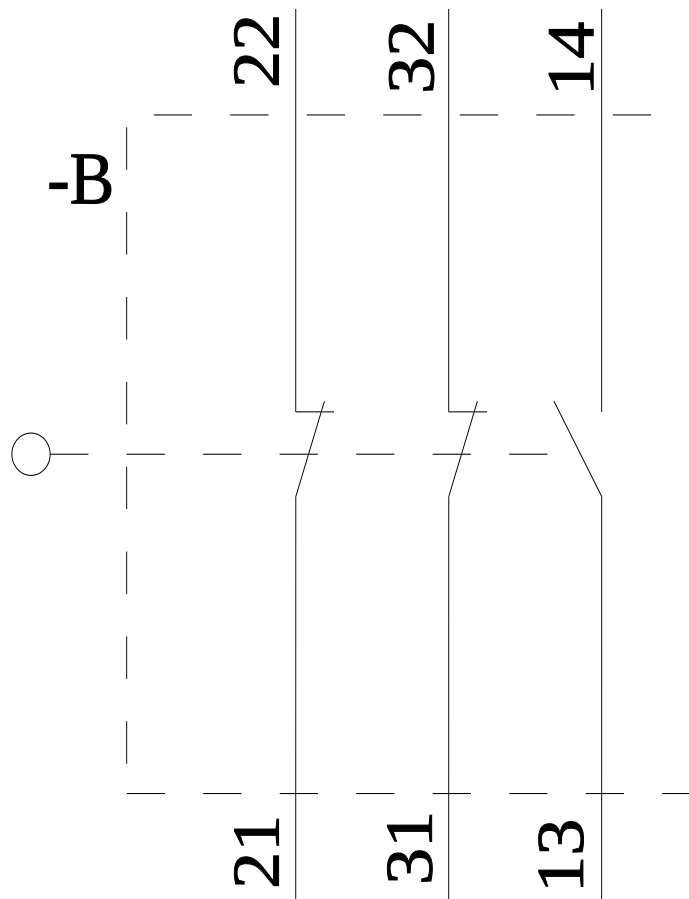
## Service &amp; Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5112-0KA00>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5112-0KA00&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5112-0KA00&lang=en)





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