



Position switch Metal enclosure 40 mm according to EN 50041 Device connection 1x (M20 x 1.5) 1 NO/1 NC quick action contacts Plain plunger, stainless steel

|                                                                                                                                                                                                                                                     |                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>product brand name</b>                                                                                                                                                                                                                           | SIRIUS                                                                                                                           |
| <b>product designation</b>                                                                                                                                                                                                                          | Mechanical position switches                                                                                                     |
| <b>product type designation</b>                                                                                                                                                                                                                     | 3SE5                                                                                                                             |
| <b>manufacturer's article number</b>                                                                                                                                                                                                                |                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• of the supplied basic switch</li> <li>• of the supplied actuator head for position switches</li> <li>• of the supplied switching contacts</li> <li>• of the supplied empty enclosure with cover</li> </ul> | <a href="#">3SE5112-0CA00</a><br><a href="#">3SE5000-0AB01</a><br><a href="#">3SE5000-0CA00</a><br><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                                                                                                                            |
| <b>degree of pollution</b>                                                                                                                                                                                                                          | class 3                                                                                                                          |
| <b>surge voltage resistance rated value</b>                                                                                                                                                                                                         | 6 kV                                                                                                                             |
| <b>protection class IP</b>                                                                                                                                                                                                                          | IP66/IP67                                                                                                                        |
| <b>shock resistance</b>                                                                                                                                                                                                                             |                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• according to IEC 60068-2-27</li> </ul>                                                                                                                                                                     | 30g / 11 ms                                                                                                                      |
| vibration resistance according to IEC 60068-2-6                                                                                                                                                                                                     | 0.35 mm/5g                                                                                                                       |
| mechanical service life (switching cycles) typical                                                                                                                                                                                                  | 15 000 000                                                                                                                       |
| electrical endurance (switching cycles) at AC-15 at 230 V typical                                                                                                                                                                                   | 100 000                                                                                                                          |
| <b>electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical</b>                                                                                                                            | 10 000 000                                                                                                                       |
| <b>Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026</b>                                                                                                                                    | 6 000                                                                                                                            |
| <b>thermal current</b>                                                                                                                                                                                                                              | 10 A                                                                                                                             |
| <b>material of the enclosure of the switch head</b>                                                                                                                                                                                                 | metal                                                                                                                            |
| <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                                                                                                                              |
| <b>active principle</b>                                                                                                                                                                                                                             | mechanical                                                                                                                       |
| <b>repeat accuracy</b>                                                                                                                                                                                                                              | 0.05 mm                                                                                                                          |
| <b>Substance Prohibitance (Date)</b>                                                                                                                                                                                                                | 07/01/2006                                                                                                                       |
| <b>minimum actuating force in directions of actuation</b>                                                                                                                                                                                           | 20 N                                                                                                                             |
| <b>length of the sensor</b>                                                                                                                                                                                                                         | 85.7 mm                                                                                                                          |
| <b>width of the sensor</b>                                                                                                                                                                                                                          | 40 mm                                                                                                                            |
| <b>design of the switching contact</b>                                                                                                                                                                                                              | mechanical                                                                                                                       |
| <b>operating frequency rated value</b>                                                                                                                                                                                                              | 50 ... 60 Hz                                                                                                                     |

|                                                          |                                                                       |
|----------------------------------------------------------|-----------------------------------------------------------------------|
| number of NC contacts for auxiliary contacts             | 1                                                                     |
| 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                                                                |
| design of the interface for safety-related communication | without                                                               |
| <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                          | Rounded plunger, high-grade steel plunger                             |
| standard-compliant actuator head                         | EN 50041, design B                                                    |
| shape of the switch head                                 | rounded                                                               |
| design of the switching function                         | positive opening                                                      |
| circuit principle                                        | snap-action contacts                                                  |
| number of switching contacts safety-related              | 1                                                                     |
| <b>Connections/ Terminals</b>                            |                                                                       |
| type of electrical connection                            | screw-type terminals                                                  |
| type of connectable conductor cross-sections             |                                                                       |
| • 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> ) |
| • at AWG cables solid                                    | 1x (20 ... 16), 2x (20 ... 18)                                        |
| • at AWG cables stranded                                 | 1x (20 ... 16), 2x (20 ... 18)                                        |
| cable entry type                                         | 1x (M20 x 1.5)                                                        |
| <b>Communication/ Protocol</b>                           |                                                                       |
| design of the interface                                  | without                                                               |
| <b>Ambient conditions</b>                                |                                                                       |
| ambient temperature                                      |                                                                       |
| • during operation                                       | -25 ... +85 °C                                                        |
| • during storage                                         | -40 ... +90 °C                                                        |
| explosion protection category for dust                   | none                                                                  |
| <b>Installation/ mounting/ dimensions</b>                |                                                                       |
| mounting position                                        | any                                                                   |
| fastening method                                         | screw fixing                                                          |
| <b>Certificates/ approvals</b>                           |                                                                       |
| General Product Approval                                 |                                                                       |



[Confirmation](#)



|                                       |                           |                   |       |
|---------------------------------------|---------------------------|-------------------|-------|
| Functional Safety/Safety of Machinery | Declaration of Conformity | Test Certificates | other |
|---------------------------------------|---------------------------|-------------------|-------|

#### Further information

**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=3SE5112-0CB01>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5112-0CB01>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5112-0CB01>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5112-0CB01&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5112-0CB01&lang=en)

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