



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

|                                                                                                                          |                                                      |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <b>product brand name</b>                                                                                                | SIRIUS                                               |
| <b>product designation</b>                                                                                               | Mechanical safety switches                           |
| <b>product type designation</b>                                                                                          | 3SE5                                                 |
| <b>manufacturer's article number</b>                                                                                     |                                                      |
| • of the supplied basic switch                                                                                           | <a href="#">3SE5112-0CA00</a>                        |
| • of the supplied switching contacts                                                                                     | <a href="#">3SE5000-0CA00</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                                            |
| <b>shock resistance</b>                                                                                                  |                                                      |
| • acc. to IEC 60068-2-27                                                                                                 | 30g / 11 ms                                          |
| vibration resistance acc. 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>reference code acc. 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                                              |
| Substance Prohibance (Date)                                                                                              | 01.07.2006 00:00:00                                  |
| <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                                                                                                                                                              |
| operational current at AC-15 <ul style="list-style-type: none"> <li>at 24 V rated value</li> <li>at 125 V rated value</li> <li>at 240 V rated value</li> <li>at 400 V rated value</li> </ul>                        | 6 A<br>6 A<br>6 A<br>4 A                                                                                                                                       |
| operational current at DC-13 <ul style="list-style-type: none"> <li>at 24 V rated value</li> <li>at 125 V rated value</li> <li>at 250 V rated value</li> <li>at 400 V rated value</li> </ul>                        | 3 A<br>0.55 A<br>0.27 A<br>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 immersion coating                                                                                                                                     |
| design of the housing acc. 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                                                                                                                                                                                                   | 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 <ul style="list-style-type: none"> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul> | 1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²)<br>1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²)<br>1x (20 ... 16), 2x (20 ... 18)<br>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 <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> </ul>                                                                                                      | -25 ... +85 °C<br>-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                                                                                                                                                                                            |                                                                                                                                                                |
| Functional Safety/Safety of Machinery                                                                                                                                                                               |                                                                                                                                                                |



[Type Examination Certificate](#)

Declaration of Conformity

Test Certificates

other

[Miscellaneous](#)



[Type Test Certificates/Test Report](#)

[Confirmation](#)

## 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=3SE5112-0CA00>

Cax online generator

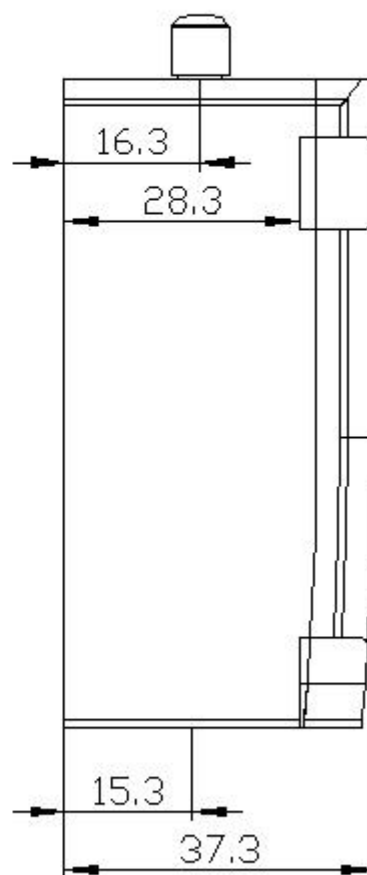
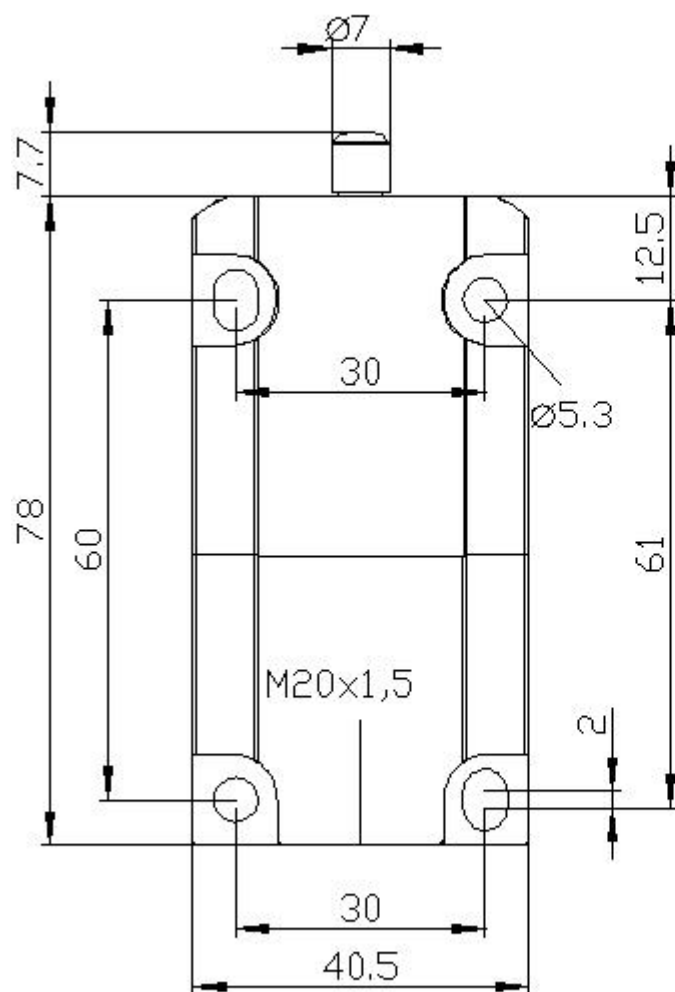
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5112-0CA00>

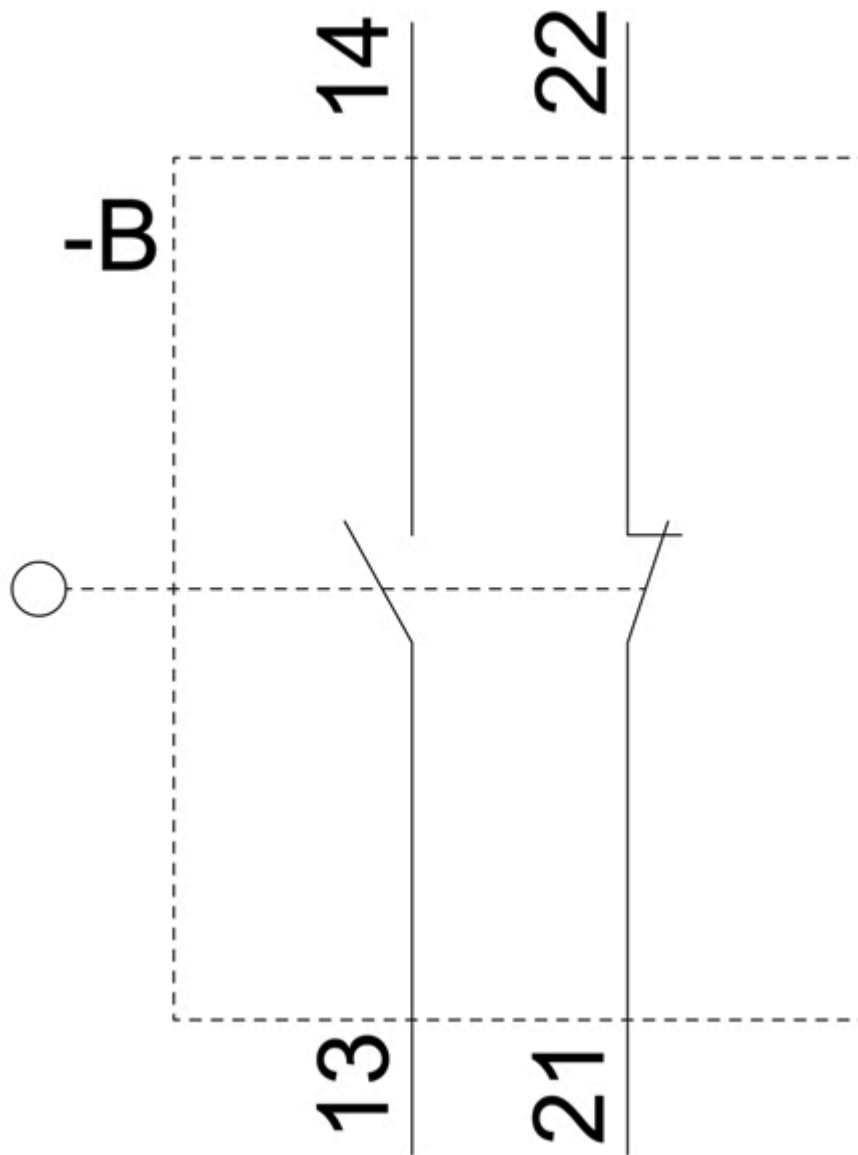
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5112-0CA00>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5112-0CA00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5112-0CA00&lang=en)





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