



position switch plastic enclosure, 50 mm device connection 2x (M20x 1.5) 2 NO/NC slow-action contacts rounded plunger, form B

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| <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 switching contacts</li> <li>• of the supplied empty enclosure with cover</li> </ul> | <a href="#">3SE5000-0PA00</a><br><a href="#">3SE5242-0AC05</a> |
| suitability for use safety switch  | Yes  |
| <b>General technical data</b>  |  |
| product function positive opening  | Yes  |
| insulation voltage rated value   | 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>  |  |
| <ul style="list-style-type: none"> <li>• according to IEC 60068-2-27</li> </ul>  | 30g / 11 ms  |
| <b>vibration resistance</b>  |  |
| <ul style="list-style-type: none"> <li>• according to IEC 60068-2-6</li> </ul>   | 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>  | 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  |
| <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>  | 60.7 mm  |
| <b>width of the sensor</b>   | 50 mm  |
| <b>design of the switching contact</b>   | mechanical   |
| <b>operating frequency rated value</b>   | 50 ... 60 Hz   |
| <b>number of NC contacts for auxiliary contacts</b>  | 1  |

|  |         |
|--|---------|
| <b>number of NO contacts for auxiliary contacts</b>      | 2       |
| <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                                   | 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>                                   |             |
| <b>design of the housing</b>                       | block, wide |
| <b>material of the enclosure</b>                   | plastic     |
| <b>coating of the enclosure</b>                    | Other types |
| <b>design of the housing according to standard</b> | No          |

|   |                                  |
|---|----------------------------------|
| <b>Drive Head</b>                           |                                  |
| <b>design of the actuating element</b>      | Rounded plunger, plastic plunger |
| <b>standard-compliant actuator head</b>     | EN 50047, design B               |
| <b>shape of the switch head</b>             | rounded                          |
| <b>design of the switching function</b>     | positive opening                 |
| <b>circuit principle</b>                    | slow-action contacts             |
| number of switching contacts safety-related | 1                                |

|   |   |
|---|---|
| <b>Connections/ Terminals</b>                       |   |
| <b>type of electrical connection</b>                | screw-type terminals  |
| <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> ) |
| • at AWG cables solid                               | 1x (20 ... 16), 2x (20 ... 18)  |
| • at AWG cables stranded                            | 1x (20 ... 16), 2x (20 ... 18)  |
| <b>cable entry type</b>                             | 2x (M20 x 1.5)  |

|                                |         |
|--------------------------------|---------|
| <b>Communication/ Protocol</b> |         |
| <b>design of the interface</b> | without |

|   |                |
|---|----------------|
| <b>Ambient conditions</b>                     |                |
| <b>ambient temperature</b>                    |                |
| • during operation                            | -25 ... +85 °C |
| • during storage                              | -40 ... +90 °C |
| <b>explosion protection category for dust</b> | none           |

|   |              |
|---|--------------|
| <b>Installation/ mounting/ dimensions</b> |              |
| <b>mounting position</b>                  | any          |
| <b>fastening method</b>                   | screw fixing |

|                                |  |
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| <b>Certificates/ approvals</b> |  |
| General Product Approval       |  |



[Confirmation](#)



|  |                                  |                          |              |
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| <b>Functional Safety/Safety of Machinery</b> | <b>Declaration of Conformity</b> | <b>Test Certificates</b> | <b>other</b> |
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[Type Examination Certificate](#)



[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=3SE5242-0PC05>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5242-0PC05>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5242-0PC05>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5242-0PC05&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5242-0PC05&lang=en)

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