



position switch with increased corrosion protection plastic enclosure 50 mm, device connection 2 x (M20 x 1.5) 1 NO/1 NC integrated (not replaceable) quick-action contacts, rounded plunger

|  |  |
|--|--|
| <b>product brand name</b>  | SIRIUS   |
| <b>product designation</b>   | Mechanical position switches                         |
| <b>product type designation</b>  | 3SE5   |
| 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>  |  |
| • according to IEC 60068-2-27  | 30g / 11 ms  |
| <b>vibration resistance</b>  |  |
| • 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>  | 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>  | 1  |
| <b>operational current at AC-15</b>  |  |
| • at 24 V rated value  | 6 A  |

|   |         |
|---|---------|
| <ul style="list-style-type: none"> <li>• at 120 V rated value</li> <li>• at 240 V rated value</li> <li>• at 400 V rated value</li> </ul>                                | 6 A     |
| <b>operational current at DC-13</b>   | 6 A     |
| <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> | 4 A     |
|   | 3 A     |
|   | 0.55 A  |
|   | 0.27 A  |
|   | 0.12 A  |
| design of the interface for safety-related communication  | without |

| Enclosure                                   |             |
|---|-------------|
| design of the housing                       | block, wide |
| material of the enclosure                   | plastic     |
| coating of the enclosure                    | Other types |
| design of the housing according to standard | No          |

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

| Connections/ Terminals   |   |
|--|---|
| 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 mm <sup>2</sup> ), 2x (0.5 ... 0.75 mm <sup>2</sup> ) |
|  | 1x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.5 ... 0.75 mm <sup>2</sup> ) |
|  | 1x (20 ... 16), 2x (20 ... 18)  |
|  | 1x (20 ... 16), 2x (20 ... 18)  |
| cable entry type   | 2x (M20 x 1.5)  |

| Communication/ Protocol |         |
|-------------------------|---------|
| design of the interface | without |

| Ambient conditions   |                |
|--|----------------|
| ambient temperature  |                |
| <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul> | -25 ... +85 °C |
|  | -40 ... +90 °C |
| explosion protection category for dust   | none           |

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

| Certificates/ approvals  |  |
|--------------------------|--|
| General Product Approval |  |



[Confirmation](#)



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

[Type Examination Certificate](#)



[Type Test Certificates/Test Report](#)

[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=3SE5242-0HC05-1CA0>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5242-0HC05-1CA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5242-0HC05-1CA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5242-0HC05-1CA0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5242-0HC05-1CA0&lang=en)

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