



Position switch Plastic enclosure open type 30 mm 1 NO/1 NC quick action contacts Metal plunger, IP20

|                                      |                               |
|--------------------------------------|-------------------------------|
| product brand name                   | SIRIUS                        |
| product designation                  | Open-type position switches   |
| product type designation             | 3SE5                          |
| manufacturer's article number        |                               |
| • of the supplied switching contacts | <a href="#">3SE5000-0CA00</a> |
| suitability for use safety switch    | Yes                           |

### General technical data

|   |   |
|---|---|
| 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   | IP20, conductor connected and clamping screw screwed in |
| 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  |
| • note  | 1000000 at 30° angle of approach                        |
| electrical endurance (operating cycles) at AC-15 at 230 V typical | 100 000   |
| thermal current   | 10 A  |
| material of the enclosure of the switch head                      | plastic   |
| 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  |
| Net Weight  | 0.042 kg  |
| minimum actuating force in directions of actuation                | 20 N  |
| length of the sensor  | 59.2 mm   |
| width of the sensor   | 30 mm   |

### Ambient conditions

|  |                |
|--|----------------|
| ambient temperature                    |                |
| • during operation                     | -25 ... +85 °C |
| • during storage                       | -40 ... +90 °C |
| explosion protection category for dust |                |
|  | none           |

### Main circuit

|                                 |            |
|---------------------------------|------------|
| design of the switching contact | 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   |
| • 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  |
| <b>Enclosure</b>   |   |
| <b>material of the enclosure</b>                                     | plastic, open-type  |
| <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, metal 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>   | snap-action contacts  |
| number of switching contacts safety-related                          | 1   |
| <b>Installation/ mounting/ dimensions</b>                            |   |
| <b>mounting position</b>   | any   |
| <b>fastening method</b>  | screw fixing  |
| <b>Connections/ Terminals</b>  |   |
| <b>type of electrical connection</b>                                 | screw terminal  |
| <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> ) |
| • 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>                                       |   |
| <b>design of the interface</b>                                       | without   |
| <b>Safety related data</b>   |   |
| product function suitable for safety function                        | Yes   |
| <b>service life maximum</b>  | 20 a  |
| <b>test wear-related service life necessary</b>                      | Yes   |
| <b>proportion of dangerous failures</b>                              |   |
| • with low demand rate according to SN 31920                         | 20 %  |
| • with high demand rate according to SN 31920                        | 20 %  |
| <b>B10 value with high demand rate according to SN 31920</b>         | 1 000 000   |
| <b>failure rate [FIT] with low demand rate according to SN 31920</b> | 100 FIT   |
| ISO 13849  |   |
| <b>device type according to ISO 13849-1</b>                          | 3   |
| <b>Approvals Certificates</b>  |   |
| <b>General Product Approval</b>                                      |   |



**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=3SE5250-0CC05>**Cax online generator**<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5250-0CC05>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/3SE5250-0CC05>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5250-0CC05&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5250-0CC05&lang=en)

