



Position switch Metal enclosure according to EN 50047, 31 mm Device connection 1 x (M20 x 1.5) 1 NO/2 NC quick action contacts Twist lever, 21 mm long right/left adjustable with plastic roller 19 mm

|                                                                   |                                                                |
|-------------------------------------------------------------------|----------------------------------------------------------------|
| product brand name                                                | SIRIUS                                                         |
| product designation                                               | Mechanical position switches                                   |
| product type designation                                          | 3SE5                                                           |
| manufacturer's article number                                     |                                                                |
| • of the supplied actuator head for position switches             | <a href="#">3SE5000-0AK00</a>                                  |
| • of the supplied operating lever                                 | <a href="#">3SE5000-0AA21</a>                                  |
| • of the supplied switching contacts                              | <a href="#">3SE5000-0LA00</a>                                  |
| • of the supplied empty enclosure with cover                      | <a href="#">3SE5212-0AC05</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                                                      |
| shock resistance                                                  |                                                                |
| • according to IEC 60068-2-27                                     | 30 g / 11 ms                                                   |
| vibration resistance                                              |                                                                |
| • according to IEC 60068-2-6                                      | 0.35 mm/5 g                                                    |
| mechanical service life (operating cycles) typical                | 15 000 000                                                     |
| 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                      | metal                                                          |
| 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 (day/month/year)                           | 07/01/2006                                                     |
| SVHC substance name                                               | Imidazolidine-2-thione (2-imidazoline-2-thiol) CAS-No. 96-45-7 |
| Net Weight                                                        | 0.222 g                                                        |
| minimum actuating torque in directions of actuation               | 0.25 N·m                                                       |
| length of the sensor                                              | 111.3 mm                                                       |
| width of the sensor                                               | 31 mm                                                          |
| <b>Ambient conditions</b>                                         |                                                                |
| ambient temperature                                               |                                                                |
| • during operation                                                | -25 ... +85 °C                                                 |
| • during storage                                                  | -40 ... +90 °C                                                 |

|                                                               |                                                                      |
|---------------------------------------------------------------|----------------------------------------------------------------------|
| explosion protection category for dust                        | none                                                                 |
| <b>Main circuit</b>                                           |                                                                      |
| design of the switching contact                               | mechanical                                                           |
| operating frequency rated value                               | 50 ... 60 Hz                                                         |
| number of NC contacts for auxiliary contacts                  | 2                                                                    |
| number of NO contacts for auxiliary contacts                  | 1                                                                    |
| operational current at AC-15                                  |                                                                      |
| • 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                                                                  |
| operational current at DC-13                                  |                                                                      |
| • 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>                                              |                                                                      |
| 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                               | Twist lever, metal lever, 21 mm long, straight, plastic roller 19 mm |
| standard-compliant actuator head                              | EN 50047, design A                                                   |
| shape of the switch head                                      | roller                                                               |
| design of the switching function                              | positive opening                                                     |
| circuit principle                                             | snap-action contacts                                                 |
| number of switching contacts safety-related                   | 2                                                                    |
| cable entry type                                              | 1x (M20 x 1.5)                                                       |
| <b>Installation/ mounting/ dimensions</b>                     |                                                                      |
| mounting position                                             | any                                                                  |
| fastening method                                              | screw fixing                                                         |
| <b>Connections/ Terminals</b>                                 |                                                                      |
| type of electrical connection                                 | screw terminal                                                       |
| type of connectable conductor cross-sections                  |                                                                      |
| • solid                                                       | 1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²)                          |
| • finely stranded with core end processing                    | 1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²)                          |
| • 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>                                |                                                                      |
| design of the interface                                       | without                                                              |
| <b>Safety related data</b>                                    |                                                                      |
| product function suitable for safety function                 | Yes                                                                  |
| service life maximum                                          | 20 a                                                                 |
| test wear-related service life necessary                      | Yes                                                                  |
| proportion of dangerous failures                              |                                                                      |
| • with low demand rate according to SN 31920                  | 20 %                                                                 |
| • with high demand rate according to SN 31920                 | 20 %                                                                 |
| B10 value with high demand rate according to SN 31920         | 1 000 000                                                            |
| failure rate [FIT] with low demand rate according to SN 31920 | 100 FIT                                                              |
| ISO 13849                                                     |                                                                      |
| device type according to ISO 13849-1                          | 3                                                                    |
| IEC 61508                                                     |                                                                      |
| safety device type according to IEC 61508-2                   | A                                                                    |
| <b>Approvals Certificates</b>                                 |                                                                      |
| General Product Approval                                      | Test Certificates                                                    |

other

### Confirmation

### Confirmation



## Environment

## Environmental Con- firmations



### 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=3SE5212-0LK21>

## Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5212-0LK21>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5212-0LK21>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5212-0LK21&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5212-0LK21&lang=en)



