



Safety position switch with separate actuator Metal enclosure, 56 mm Device connection 3x (M20x 1.5) Slow-action contacts 1 NO/2 NC with 2 LEDs, 230 V AC yellow/green 5 directions of approaches The matching separate actuator 3SE5000-0AV0. must be ordered separately

|                                                                   |                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product brand name                                                | SIRIUS                                                                                                                                                                                                                                                                                                                                                |
| product designation                                               | Mechanical safety switches                                                                                                                                                                                                                                                                                                                            |
| product type designation                                          | 3SE5                                                                                                                                                                                                                                                                                                                                                  |
| manufacturer's article number                                     | 3SE5000-0AV01 standard actuator, 3SE5000-0AV02 actuator with vertical mounting, 3SE5000-0AV03 actuator with horizontal mounting, 3SE5000-0AV04 radius actuator left, 3SE5000-0AV05 universal actuator, 3SE5000-0AV06 radius actuator right, 3SE5000-0AV07 heavy-duty actuator, 3SE5000-0AV11 plastic actuator, 3SE5000-0AW21 stainless steel actuator |
| • of the optional actuators                                       |                                                                                                                                                                                                                                                                                                                                                       |
| 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                              | 4 kV                                                                                                                                                                                                                                                                                                                                                  |
| protection class IP                                               | IP66/IP67                                                                                                                                                                                                                                                                                                                                             |
| shock resistance                                                  | 30 g / 11 ms                                                                                                                                                                                                                                                                                                                                          |
| • according to IEC 60068-2-27                                     |                                                                                                                                                                                                                                                                                                                                                       |
| vibration resistance according to IEC 60068-2-6                   | 0.35 mm/5 g                                                                                                                                                                                                                                                                                                                                           |
| mechanical service life (operating cycles) typical                | 1 000 000                                                                                                                                                                                                                                                                                                                                             |
| 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; for a short-circuit current smaller than 400 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                                                        | 0.55 kg                                                                                                                                                                                                                                                                                                                                               |
| minimum actuating force in directions of actuation                | 20 N                                                                                                                                                                                                                                                                                                                                                  |
| length of the sensor                                              | 110 mm                                                                                                                                                                                                                                                                                                                                                |
| width of the sensor                                               | 56 mm                                                                                                                                                                                                                                                                                                                                                 |
| <b>Ambient conditions</b>                                         |                                                                                                                                                                                                                                                                                                                                                       |
| ambient temperature                                               | -25 ... +60 °C                                                                                                                                                                                                                                                                                                                                        |
| • during operation                                                |                                                                                                                                                                                                                                                                                                                                                       |
| • during storage                                                  | -40 ... +90 °C                                                                                                                                                                                                                                                                                                                                        |
| explosion protection category for dust                            | none                                                                                                                                                                                                                                                                                                                                                  |

|                                                                                                                                                                                                                  |                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main circuit                                                                                                                                                                                                     |                                                                                                                                                                |
| 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 <ul style="list-style-type: none"><li>at 230 V rated value</li></ul>                                                                                                                | 4 A                                                                                                                                                            |
| Enclosure                                                                                                                                                                                                        |                                                                                                                                                                |
| design of the housing                                                                                                                                                                                            | block, wide                                                                                                                                                    |
| material of the enclosure                                                                                                                                                                                        | metal                                                                                                                                                          |
| coating of the enclosure                                                                                                                                                                                         | cathodic dip coating                                                                                                                                           |
| design of the housing according to standard                                                                                                                                                                      | No                                                                                                                                                             |
| Drive Head                                                                                                                                                                                                       |                                                                                                                                                                |
| design of the actuating element                                                                                                                                                                                  | without                                                                                                                                                        |
| design of the switching function                                                                                                                                                                                 | positive opening                                                                                                                                               |
| circuit principle                                                                                                                                                                                                | slow-action contacts                                                                                                                                           |
| number of switching contacts safety-related                                                                                                                                                                      | 2                                                                                                                                                              |
| cable entry type                                                                                                                                                                                                 | 3x (M20 x 1.5)                                                                                                                                                 |
| Installation/ mounting/ dimensions                                                                                                                                                                               |                                                                                                                                                                |
| mounting position                                                                                                                                                                                                | any                                                                                                                                                            |
| fastening method                                                                                                                                                                                                 | screw fixing                                                                                                                                                   |
| Connections/ Terminals                                                                                                                                                                                           |                                                                                                                                                                |
| type of electrical connection                                                                                                                                                                                    | screw terminal                                                                                                                                                 |
| type of connectable conductor cross-sections <ul style="list-style-type: none"><li>solid</li><li>finely stranded with core end processing</li><li>for AWG cables solid</li><li>for 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) |
| Supply voltage                                                                                                                                                                                                   |                                                                                                                                                                |
| type of voltage of the supply voltage of the optional LED display                                                                                                                                                | AC                                                                                                                                                             |
| supply voltage of LED <ul style="list-style-type: none"><li></li></ul>                                                                                                                                           | 230 V                                                                                                                                                          |
| design of the interface for safety-related communication                                                                                                                                                         | without                                                                                                                                                        |
| Communication/ Protocol                                                                                                                                                                                          |                                                                                                                                                                |
| design of the interface                                                                                                                                                                                          | without                                                                                                                                                        |
| Safety related data                                                                                                                                                                                              |                                                                                                                                                                |
| product function suitable for safety function                                                                                                                                                                    | Yes                                                                                                                                                            |
| service life maximum                                                                                                                                                                                             | 20 a                                                                                                                                                           |
| test wear-related service life necessary                                                                                                                                                                         | Yes                                                                                                                                                            |
| proportion of dangerous failures <ul style="list-style-type: none"><li>with low demand rate according to SN 31920</li><li>with high demand rate according to SN 31920</li></ul>                                  | 20 %<br>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                                                                                                                                                              |
| Approvals Certificates                                                                                                                                                                                           |                                                                                                                                                                |
| General Product Approval                                                                                                                                                                                         | other                                                                                                                                                          |



[Confirmation](#)

other

Environment



## 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=3SE5122-3QV10>

## Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5122-3QV10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5122-3QV10>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5122-3QV10&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5122-3QV10&lang=en)



