



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

|                                                                   |                                                                                                                                                                                                                                                                                                                                                       |
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| 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, 3SE5000-0AW11 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                              | 6 kV                                                                                                                                                                                                                                                                                                                                                  |
| protection class IP                                               | IP66/IP67                                                                                                                                                                                                                                                                                                                                             |
| shock resistance                                                  | 30g / 11 ms                                                                                                                                                                                                                                                                                                                                           |
| • according to IEC 60068-2-27                                     |                                                                                                                                                                                                                                                                                                                                                       |
| 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 (Date)                                     | 07/01/2006                                                                                                                                                                                                                                                                                                                                            |
| SVHC substance name                                               | Imidazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7                                                                                                                                                                                                                                                                                              |
| 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 ... +85 °C                                                                                                                                                                                                                                                                                                                                        |
| • during operation                                                |                                                                                                                                                                                                                                                                                                                                                       |
| • during storage                                                  | -40 ... +90 °C                                                                                                                                                                                                                                                                                                                                        |
| explosion protection category for dust                            | none                                                                                                                                                                                                                                                                                                                                                  |
| 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                                                       | 4 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, wide                                                           |
| material of the enclosure                                                    | metal                                                                 |
| coating of the enclosure                                                     | cathodic dip coating                                                  |
| design of the housing according to standard                                  | No                                                                    |
| <b>Drive Head</b>                                                            |                                                                       |
| 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)                                                        |
| <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 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>                                               |                                                                       |
| design of the interface                                                      | without                                                               |
| <b>Safety related data</b>                                                   |                                                                       |
| proportion of dangerous failures with high demand rate according to SN 31920 | 20 %                                                                  |
| B10 value with high demand rate according to SN 31920                        | 1 000 000                                                             |
| <b>Approvals Certificates</b>                                                |                                                                       |
| General Product Approval                                                     |                                                                       |



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|                   |       |             |
|-------------------|-------|-------------|
| Functional Safety | other | Environment |
|-------------------|-------|-------------|



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firmations](#)

#### Further information

Information on the packaging  
<https://support.industry.siemens.com/cs/ww/en/view/109813875>  
 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=3SE5122-0QV10>  
 Cax online generator



