

Position switch Metal enclosure 40 mm according to EN 50041 Device connection 1x (M20 x 1.5) 1 NO/1 NC quick action contacts Angular roller lever, metal lever and plastic roller 22 mm

|   |  |
|---|--|
| <b>product brand name</b>   | SIRIUS   |
| <b>product designation</b>  | Mechanical position switches   |
| <b>product type designation</b>   | 3SE5   |
| <b>manufacturer's article number</b>  |  |
| <ul style="list-style-type: none"> <li>• of the supplied basic switch</li> <li>• of the supplied actuator head for position switches</li> <li>• of the supplied switching contacts</li> <li>• of the supplied empty enclosure with cover</li> </ul> | <a href="#">3SE5112-0CA00</a><br><a href="#">3SE5000-0AF01</a><br><a href="#">3SE5000-0CA00</a><br><a href="#">3SE5112-0AA00</a> |
| suitability for use safety switch   | Yes  |
| <b>General technical data</b>   |  |
| product function positive opening   | Yes  |
| <b>insulation voltage rated value</b>   | 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>   |  |
| <ul style="list-style-type: none"> <li>• according to IEC 60068-2-27</li> </ul>   | 30 g / 11 ms   |
| <b>vibration resistance according to IEC 60068-2-6</b>  | 0.35 mm/5 g  |
| <b>mechanical service life (operating cycles) typical</b>   | 15 000 000   |
| electrical endurance (operating cycles) at AC-15 at 230 V typical   | 100 000  |
| <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 (day/month/year)</b>  | 07/01/2006   |
| <b>SVHC substance name</b>  | Imidazolidine-2-thione (2-imidazoline-2-thiol) CAS-No. 96-45-7   |
| <b>Net Weight</b>   | 0.35 kg  |
| <b>minimum actuating force in directions of actuation</b>   | 10 N   |
| <b>length of the sensor</b>   | 118 mm   |
| <b>width of the sensor</b>  | 40 mm  |
| <b>Ambient conditions</b>   |  |
| <b>ambient temperature</b>  |  |
| <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>  | -25 ... +85 °C<br>-40 ... +90 °C   |
| <b>explosion protection category for dust</b>   | none   |
| <b>Main circuit</b>   |  |
| <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>   |  |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> <li>• at 125 V rated value</li> <li>• at 240 V rated value</li> <li>• at 400 V rated value</li> </ul>   | 6 A<br>6 A<br>6 A<br>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 |

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| <b>Enclosure</b>                                   |                      |
| <b>design of the housing</b>                       | block, narrow        |
| <b>material of the enclosure</b>                   | metal                |
| <b>coating of the enclosure</b>                    | cathodic dip coating |
| <b>design of the housing according to standard</b> | Yes                  |

|   |   |
|---|---|
| <b>Drive Head</b>                           |   |
| <b>design of the actuating element</b>      | Angular roller lever, metal lever, plastic roller |
| <b>standard-compliant actuator head</b>     | EN 50041  |
| <b>shape of the switch head</b>             | roller  |
| <b>design of the switching function</b>     | positive opening                                  |
| <b>circuit principle</b>                    | snap-action contacts                              |
| number of switching contacts safety-related | 1   |
| <b>cable entry type</b>                     | 1x (M20 x 1.5)                                    |

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

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|--|---|
| <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   |

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|---|---|
| <b>ISO 13849</b>                            |   |
| <b>device type according to ISO 13849-1</b> | 3 |

|  |   |
|--|---|
| <b>IEC 61508</b>                                   |   |
| <b>safety device type according to IEC 61508-2</b> | A |

|                                 |                          |
|---------------------------------|--------------------------|
| <b>Approvals Certificates</b>   |                          |
| <b>General Product Approval</b> | <b>Test Certificates</b> |



[Type Test Certificates/Test Report](#)

|              |                    |
|--------------|--------------------|
| <b>other</b> | <b>Environment</b> |
|--------------|--------------------|

[Confirmation](#)

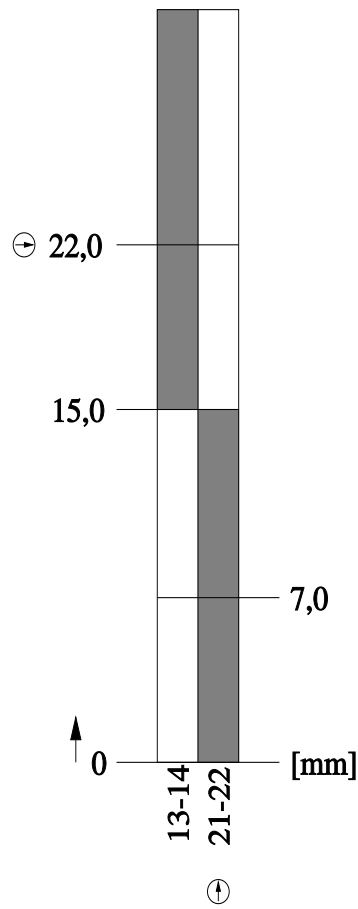
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