



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

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| <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 actuator head for position switches</li> <li>• of the supplied operating lever</li> <li>• of the supplied switching contacts</li> <li>• of the supplied empty enclosure with cover</li> </ul> | <a href="#">3SE5000-0AK00</a><br><a href="#">3SE5000-0AA21</a><br><a href="#">3SE5000-0CA00</a><br><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  |
| <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>  | 30g / 11 ms  |
| <b>vibration resistance</b>  |  |
| <ul style="list-style-type: none"> <li>• according to IEC 60068-2-6</li> </ul>   | 0.35 mm/5g   |
| mechanical service life (switching cycles) typical   | 15 000 000   |
| electrical endurance (switching cycles) at AC-15 at 230 V typical  | 100 000  |
| <b>electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical</b>   | 10 000 000   |
| <b>Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026</b>   | 6 000  |
| <b>thermal current</b>   | 10 A   |
| <b>material of the enclosure of the switch head</b>  | metal  |
| <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 (Date)</b>   | 07/01/2006   |
| <b>minimum actuating torque in directions of actuation</b>   | 0.25 N·m   |
| <b>length of the sensor</b>  | 111.3 mm   |
| <b>width of the sensor</b>   | 31 mm  |
| <b>design of the switching contact</b>   | mechanical   |

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|--|---|
| operating frequency rated value                          | 50 ... 60 Hz  |
| number of NC contacts for auxiliary contacts             | 1   |
| number of NO contacts for auxiliary contacts             | 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  |
| design of the interface for safety-related communication | without   |
| <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              | 1   |
| <b>Connections/ Terminals</b>                            |   |
| type of electrical connection                            | screw-type terminals  |
| 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> ) |
| • at AWG cables solid                                    | 1x (20 ... 16), 2x (20 ... 18)  |
| • at AWG cables stranded                                 | 1x (20 ... 16), 2x (20 ... 18)  |
| cable entry type   | 1x (M20 x 1.5)  |
| <b>Communication/ Protocol</b>                           |   |
| design of the interface                                  | without   |
| <b>Ambient conditions</b>                                |   |
| ambient temperature                                      |   |
| • during operation                                       | -25 ... +85 °C  |
| • during storage   | -40 ... +90 °C  |
| explosion protection category for dust                   | none  |
| <b>Installation/ mounting/ dimensions</b>                |   |
| mounting position  | any   |
| fastening method   | screw fixing  |
| <b>Certificates/ approvals</b>                           |   |
| General Product Approval                                 |   |



[Confirmation](#)



|                                       |                           |                   |       |
|---------------------------------------|---------------------------|-------------------|-------|
| Functional Safety/Safety of Machinery | Declaration of Conformity | Test Certificates | other |
|---------------------------------------|---------------------------|-------------------|-------|

### Further information

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=3SE5212-0CK21>

Cax online generator

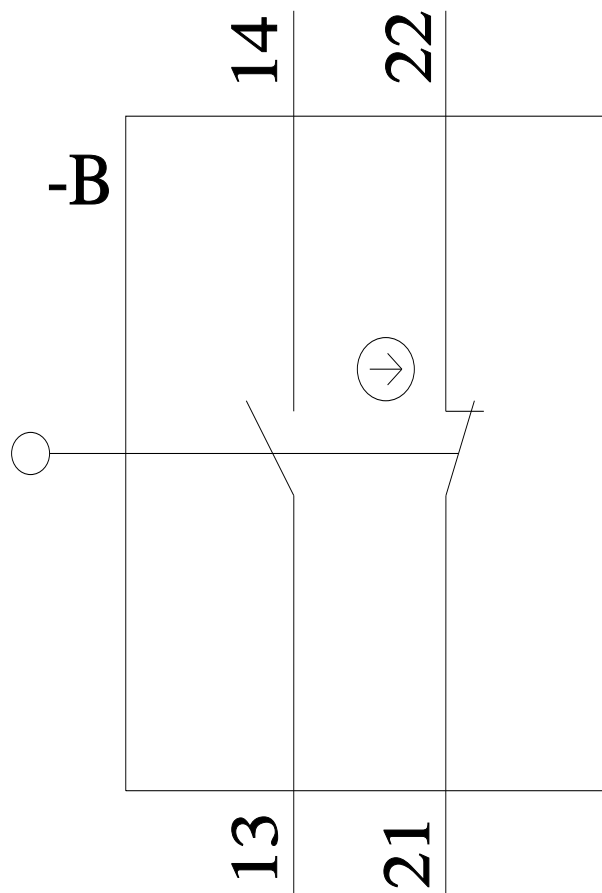
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5212-0CK21>

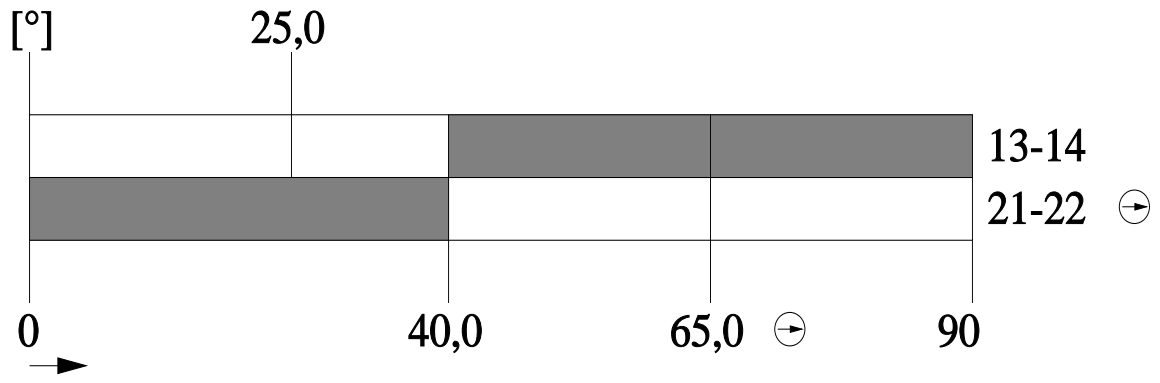
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5212-0CK21>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5212-0CK21&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5212-0CK21&lang=en)





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