



Position switch, 3SE51 Metal enclosure 40 mm according to EN 50041, 1 NO/2 NC quick action contacts with M12 connector, 8-pole metal with adjustable-length Twist lever Pin assignment: Pin1=21, Pin2=22 Pin3=13 and LED green, Pin4=14 and LED yellow, Pin5=31, Pin6=32 Pin 7=ground LED, Pin 8=PE

|  |   |
|--|---|
| <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 operating lever</li> <li>• of the supplied switching contacts</li> </ul> | <a href="#">3SE5114-1LA00-1AD4</a><br><a href="#">3SE5000-0AH00</a><br><a href="#">3SE5000-0AA50</a><br><a href="#">3SE5000-0LA00</a> |
| suitability for use safety switch  | No  |
| <b>General technical data</b>  |   |
| product function positive opening  | No  |
| insulation voltage rated value   | 50 V  |
| <b>degree of pollution</b>   | class 3   |
| <b>surge voltage resistance rated value</b>  | 0.8 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   |
| vibration resistance according to IEC 60068-2-6  | 0.35 mm/5g  |
| mechanical service life (switching cycles) typical   | 15 000 000  |
| <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>   | 1.5 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>  | 1.5 A; for a short-circuit current smaller than 400 A   |
| <b>continuous current of the DIAZED fuse link gG</b>   | 1.5 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>  | 198.4 mm  |
| <b>width of the sensor</b>   | 40 mm   |
| <b>design of the switching contact</b>   | mechanical  |
| <b>number of NC contacts for auxiliary contacts</b>  | 2   |
| <b>number of NO contacts for auxiliary contacts</b>  | 1   |

|   |   |
|---|---|
| <b>operational current at DC-13</b>                               |   |
| • at 24 V rated value   | 1.5 A   |
| design of the interface for safety-related communication          | without   |
| <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>                            | Adjustable twist lever, adjustable-length metal lever, plastic roller 19 mm   |
| <b>standard-compliant actuator head</b>                           | EN 50041, design A  |
| <b>shape of the switch head</b>                                   | roller  |
| <b>circuit principle</b>  | snap-action contacts  |
| number of switching contacts safety-related                       | 0   |
| <b>Connections/ Terminals</b>                                     |   |
| <b>type of electrical connection</b>                              | M12 plug, fixed   |
| <b>cable entry type</b>   | M12 plug  |
| <b>design of plug-in connection</b>                               | M12 connector, 8-pole: pin 1= terminal 21, pin 2= 22, pin 3= 13/LED green, pin 4= 14/LED yellow, pin 5= 31, pin 6= 32, pin 7= ground LED, pin 8= PE |
| <b>Communication/ Protocol</b>                                    |   |
| <b>design of the interface</b>                                    | without   |
| <b>Ambient conditions</b>   |   |
| <b>ambient temperature</b>  |   |
| • during operation  | -25 ... +60 °C  |
| • during storage  | -40 ... +90 °C  |
| <b>explosion protection category for dust</b>                     | none  |
| <b>Supply voltage</b>   |   |
| type of voltage of the supply voltage of the optional LED display | DC  |
| <b>supply voltage</b>   |   |
| • of LED  | 24 V  |
| <b>Installation/ mounting/ dimensions</b>                         |   |
| <b>mounting position</b>  | any   |
| <b>fastening method</b>   | screw fixing  |
| <b>Certificates/ approvals</b>                                    |   |
| General Product Approval  |   |



[Confirmation](#)



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

[Type Examination Certificate](#)



[Type Test Certificates/Test Report](#)

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#### 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=3SE5114-1LH50-1AD4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5114-1LH50-1AD4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5114-1LH50-1AD4>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mfb=3SE5114-1LH50-1AD4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3SE5114-1LH50-1AD4&lang=en)

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