



BASIC SWITCH FOR POSITION SWITCH 3SE51. METAL ENCLOSURE 40MM TO EN50041 DEVICE CONNECTION 1X (M20X1.5) W. M12 CONNECTOR, 5-POLE, FIXED 1NO/2NC SNAP-ACTION CONTACTS, (2NC AND PE CONNECTED) MAX. 24 V, 4A

|                                                     |  |                                    |
|-----------------------------------------------------|--|------------------------------------|
| Manufacturer article number                         |  |                                    |
| • of the basic unit included in the scope of supply |  | <a href="#">3SE5114-0LA00-1AE1</a> |

| General technical details:                |   |                                             |
|-------------------------------------------|---|---------------------------------------------|
| product designation                       |   | basic switch for standard position switches |
| Explosion protection category for dust    |   | none                                        |
| Insulation voltage                        |   |                                             |
| • rated value                             | V | 125                                         |
| Degree of pollution                       |   | class 3                                     |
| Thermal current                           | A | 4                                           |
| Operating current                         |   |                                             |
| • at AC-15                                |   |                                             |
| • at 24 V / rated value                   | A | 4                                           |
| • at 125 V / rated value                  | A | 4                                           |
| • at DC-13                                |   |                                             |
| • at 24 V / rated value                   | A | 3                                           |
| • at 125 V / rated value                  | A | 0.55                                        |
| Continuous current                        |   |                                             |
| • of the slow DIAZED fuse link            | A | 4                                           |
| • of the quick DIAZED fuse link           | A | 4                                           |
| • of the C characteristic circuit breaker | A | 1                                           |

|                                                                                                                                       |            |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|
| <b>Mechanical operating cycles as operating time</b><br>• typical                                                                     |            | 15,000,000                                                                            |
| <b>Electrical operating cycles as operating time</b><br>• with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical |            | 10,000,000                                                                            |
| <b>Electrical operating cycles in one hour</b><br>• with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026                 |            | 6,000                                                                                 |
| <b>Repeat accuracy</b>                                                                                                                | mm         | 0.05                                                                                  |
| <b>Design of the contact element</b>                                                                                                  |            | snap-action contacts                                                                  |
| <b>Number of NC contacts</b><br>• for auxiliary contacts                                                                              |            | 2                                                                                     |
| <b>Design of the switching function</b>                                                                                               |            | Positive opening with appropriate positive opening actuator head                      |
| <b>Number of NO contacts</b><br>• for auxiliary contacts                                                                              |            | 1                                                                                     |
| <b>Resistance against vibration</b>                                                                                                   |            | 0.35 mm / 5g                                                                          |
| <b>Resistance against shock</b>                                                                                                       |            | 30g / 11 ms                                                                           |
| <b>Ambient temperature</b><br>• during operating<br>• during storage                                                                  | °C<br>°C   | -25 ... +85<br>-40 ... +90                                                            |
| <b>Product specification</b><br>• for dimensions                                                                                      |            | EN 50041                                                                              |
| <b>Width of the sensor</b>                                                                                                            | mm         | 40                                                                                    |
| <b>Material</b><br>• of the enclosure                                                                                                 |            | metal                                                                                 |
| <b>Design of the operating mechanism</b>                                                                                              |            | without                                                                               |
| <b>Actuating speed</b>                                                                                                                | mm/s / m/s | 0.1 ... 2.5                                                                           |
| <b>Minimum actuating force / in activation direction</b>                                                                              | N          | 20                                                                                    |
| <b>Protection class IP</b>                                                                                                            |            | IP66/IP67                                                                             |
| <b>mounting position</b>                                                                                                              |            | any                                                                                   |
| <b>Cable gland version</b>                                                                                                            |            | M12 plug                                                                              |
| <b>Design of the electrical connection</b>                                                                                            |            | M12 plug, fixed                                                                       |
| <b>Design of the plug-in connection</b>                                                                                               |            | M12 plug, 5-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 31, Pin 4 = 32, Pin 5 = PU |
| <b>Item designation</b><br>• according to DIN 40719 extendable after IEC 204-2<br>• according to DIN EN 61346-2                       |            | S<br>B                                                                                |

#### Certificates/approvals:

| General Product Approval |  |  | Functional Safety /<br>Safety of<br>Machinery | Declaration of<br>Conformity |
|--------------------------|--|--|-----------------------------------------------|------------------------------|
|--------------------------|--|--|-----------------------------------------------|------------------------------|



CCC



GOST



UL



VDE



VDE



EG-Konf.

| Test Certificates | other |
|-------------------|-------|
|-------------------|-------|

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#### Further information:

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

##### Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>

##### CAX-Online-Generator

<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3SE5114-0LA00-1AE1/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3SE5114-0LA00-1AE1](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3SE5114-0LA00-1AE1)

