

Position switch Metal with twist lever 40 mm, according to EN 50041  
 Increased corrosion protection 1 NO/2 NC quick action contacts  
 functional at -40 °C Shock and vibration test according to EN 61373,  
 Category 1B



<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 <a href="#">3SE5112-0LA00-1AJ0</a></li> <li>• of the supplied actuator head for position switches <a href="#">3SE5000-0AH00-1AJ0</a></li> <li>• of the supplied operating lever <a href="#">3SE5000-0AA11-1AJ0</a></li> <li>• of the supplied switching contacts <a href="#">3SE5000-0LA00</a></li> </ul>
Suitability for use safety switch	Yes

### General technical data

<b>Product function</b>	Yes
<ul style="list-style-type: none"> <li>• positive opening</li> </ul>	
<b>Insulation voltage</b>	400 V
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	
<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>• acc. to IEC 60068-2-27</li> <li>• for railway applications acc. to DIN EN 61373</li> </ul>	30 g / 11 ms Category 1, Class B
<b>Vibration resistance</b>	
<ul style="list-style-type: none"> <li>• acc. to IEC 60068-2-6</li> </ul>	0.35 mm/5g
<b>Mechanical service life (switching cycles)</b>	
<ul style="list-style-type: none"> <li>• typical</li> </ul>	15 000 000
<b>Electrical endurance (switching cycles)</b>	
<ul style="list-style-type: none"> <li>• at AC-15 at 230 V typical</li> </ul>	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>	plastic
<b>Reference code acc. to DIN EN 81346-2</b>	B
<b>Reference code acc. to DIN EN 61346-2</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>Minimum actuating torque in activation direction</b>	0.25 N·m
<b>Length of the sensor</b>	127.5 mm
<b>Width of the sensor</b>	40 mm
<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>	2
<b>Number of NO contacts for auxiliary contacts</b>	1
<b>Operating 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 6 A 6 A 4 A
<b>Operating current at DC-13</b>	
<ul style="list-style-type: none"> <li>• at 24 V rated value</li> <li>• at 125 V rated value</li> <li>• at 250 V rated value</li> <li>• at 400 V rated value</li> </ul>	3 A 0.55 A 0.27 A 0.12 A
<b>Design of the interface for safety-related communication</b>	without

## Enclosure

Design of the housing	block, narrow
Material of the enclosure	metal
Coating of the enclosure	cathodic immersion coating
Design of the housing acc. to standard	Yes

#### Drive Head

Design of the operating mechanism	Twist lever, high-grade steel lever, 27 mm long, step 9 mm, plastic roller 19 mm
Standard-compliant actuator head	EN 50041, 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	2

#### Connections/ Terminals

Type of electrical connection	screw-type terminals
Type of connectable conductor cross-sections	
<ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• at AWG conductors solid</li> <li>• at AWG conductors stranded</li> </ul>	1x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.5 ... 0.75 mm <sup>2</sup> ) 1x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.5 ... 0.75 mm <sup>2</sup> ) 1x (20 ... 16), 2x (20 ... 18) 1x (20 ... 16), 2x (20 ... 18)
Cable entry type	1x (M20 x 1.5)

#### Communication/ Protocol

Design of the interface	without
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#### Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>	-40 ... +85 °C -40 ... +90 °C
Explosion protection category for dust	none

#### Installation/ mounting/ dimensions

Mounting position	any
Mounting type	screw fixing

#### Certificates/ approvals

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity
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[Type Examination Certificate](#)



Declaration of Conformity	Test Certificates	other
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[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Confirmation](#)

#### 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=3SE5112-0LH11-1AJ0>

**Cax online generator**

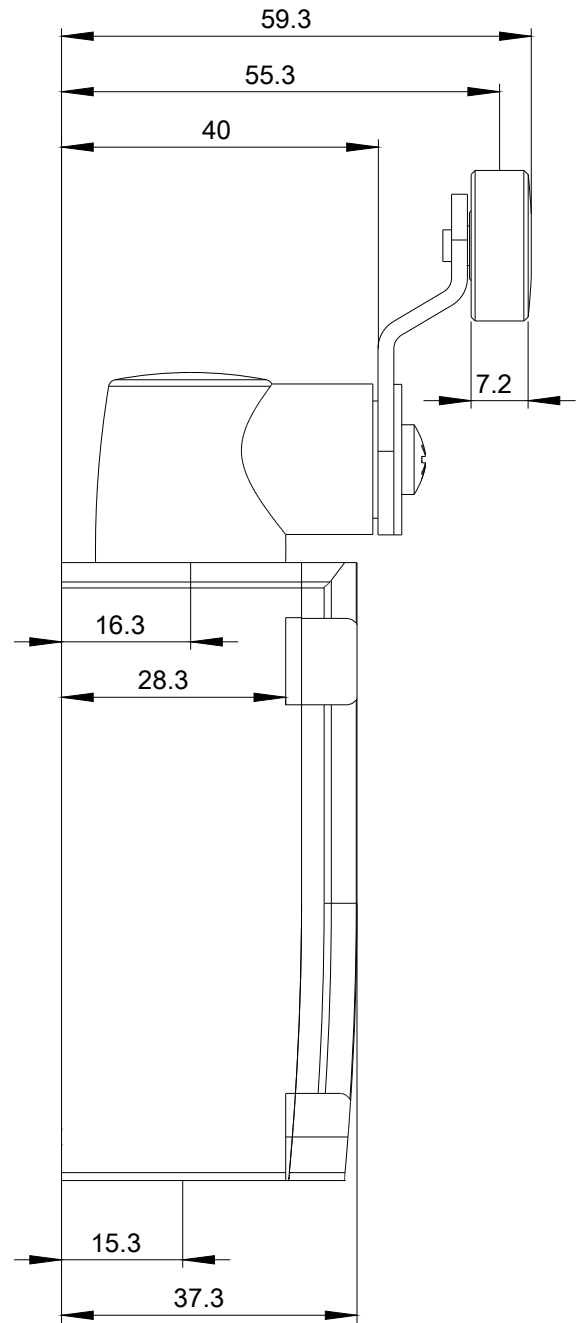
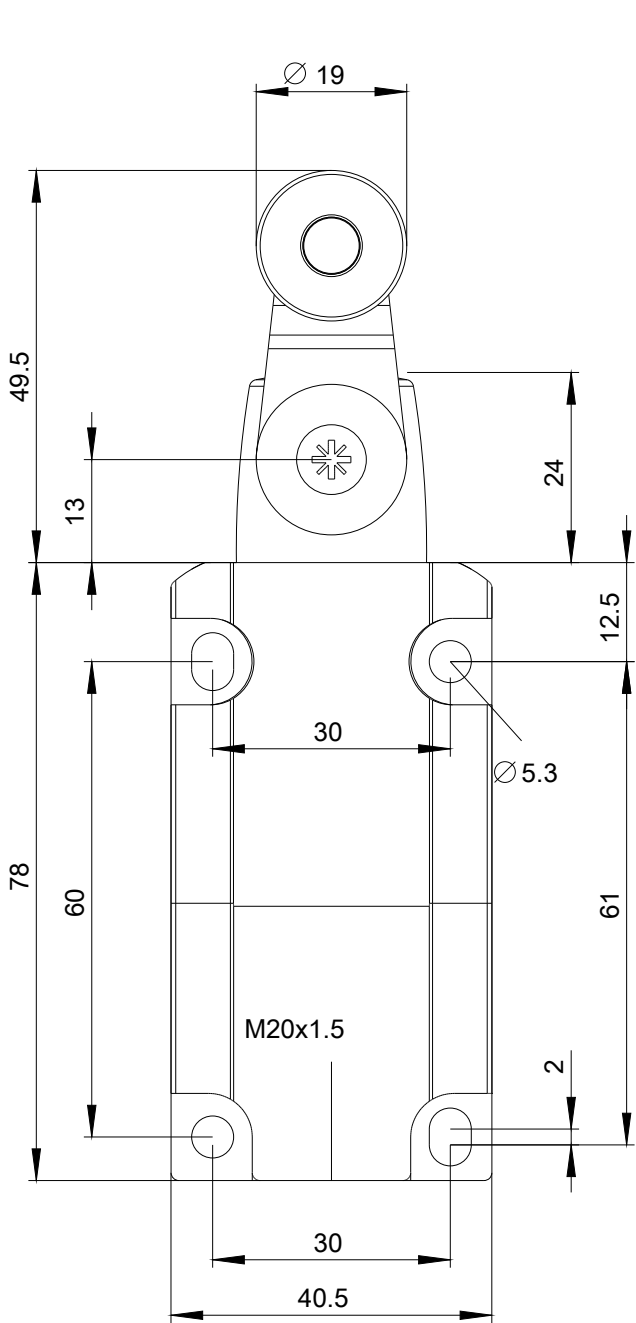
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5112-0LH11-1AJ0>

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

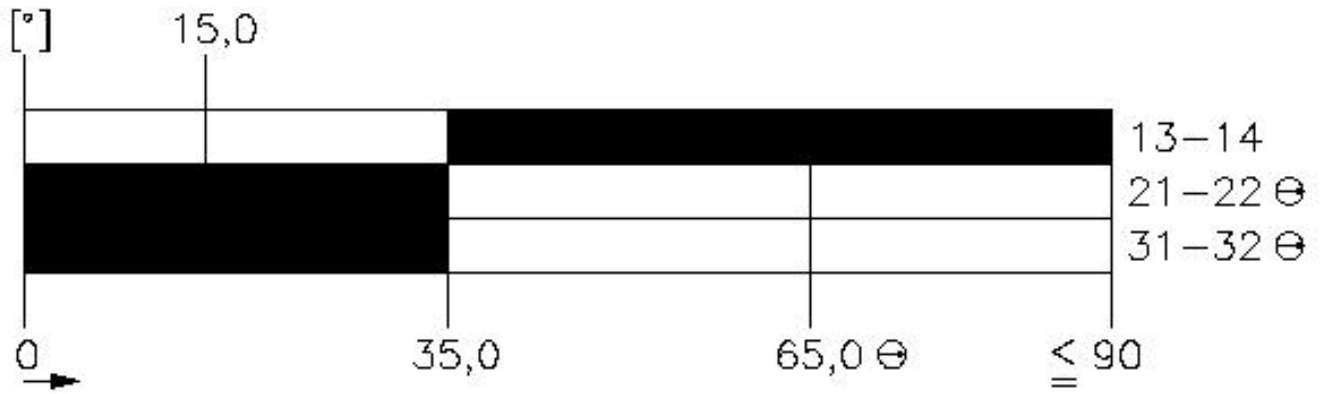
<https://support.industry.siemens.com/cs/ww/en/ps/3SE5112-0LH11-1AJ0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5112-0LH11-1AJ0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5112-0LH11-1AJ0&lang=en)







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