



Position switch Metal enclosure 40 mm according to EN 50041 Device connection 1x (M20 x 1.5) 1 NO/1 NC quick action contacts with rounded plunger Stainless steel plunger with 3 mm Overtravel 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</li> <li>• of the supplied switching contacts</li> </ul>	<a href="#">3SE5112-0CA00-1AJ0</a> <a href="#">3SE5000-0CA00</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> <li>• for railway applications according to EN 61373</li> </ul>	30g / 11 ms Category 1, Class B
vibration resistance according to IEC 60068-2-6	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 force in directions of actuation</b>	20 N
<b>length of the sensor</b>	103.5 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>	1

<b>number of NO contacts for auxiliary contacts</b>	1
<b>operational current at AC-15</b>	
• at 24 V rated value	6 A
• at 125 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>	
<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>	Rounded plunger, high-grade steel plunger
<b>standard-compliant actuator head</b>	EN 50041, design B
<b>shape of the switch head</b>	rounded
<b>design of the switching function</b>	positive opening
<b>circuit principle</b>	snap-action contacts
number of switching contacts safety-related	1
<b>Connections/ Terminals</b>	
<b>type of electrical connection</b>	screw-type terminals
<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> )
• at AWG cables solid	1x (20 ... 16), 2x (20 ... 18)
• at AWG cables stranded	1x (20 ... 16), 2x (20 ... 18)
<b>cable entry type</b>	1x (M20 x 1.5)
<b>Communication/ Protocol</b>	
<b>design of the interface</b>	without
<b>Ambient conditions</b>	
<b>ambient temperature</b>	
• during operation	-40 ... +85 °C
• during storage	-40 ... +90 °C
<b>explosion protection category for dust</b>	none
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	any
<b>fastening method</b>	screw fixing
<b>Certificates/ approvals</b>	
<b>General Product Approval</b>	



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Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

other

[Type Examination Certificate](#)



[Type Test Certificates/Test Report](#)

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[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=3SE5112-0CC02-1AJ0>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5112-0CC02-1AJ0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5112-0CC02-1AJ0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5112-0CC02-1AJ0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5112-0CC02-1AJ0&lang=en)

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