



Basic switch for position switch 3SE51 Metal enclosure, according to EN 50041 Device connection 1 x (M20 x 1.5) 1 NO/1 NC quick action contacts without actuator head

<b>product brand name</b>	SIRIUS
<b>product designation</b>	Mechanical safety switches
<b>product type designation</b>	3SE5
<b>manufacturer's article number</b>	
• of the supplied basic switch	<a href="#">3SE5112-0CA00</a>
• of the supplied switching contacts	<a href="#">3SE5000-0CA00</a>
• of the supplied empty enclosure with cover	<a href="#">3SE5112-0AA00</a>
suitability for use safety switch	Yes
<b>General technical data</b>	
product function positive opening	Yes
insulation voltage rated value	400 V
degree of pollution	class 3
surge voltage resistance rated value	6 kV
protection class IP	IP66/IP67
<b>shock resistance</b>	
• acc. to IEC 60068-2-27	30g / 11 ms
vibration resistance acc. 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
thermal current	10 A
reference code acc. to IEC 81346-2	B
continuous current of the C characteristic MCB	1 A; for a short-circuit current smaller than 400 A
continuous current of the quick DIAZED fuse link	10 A; for a short-circuit current smaller than 400 A
continuous current of the DIAZED fuse link gG	6 A
active principle	mechanical
repeat accuracy	0.05 mm
Substance Prohibitance (Date)	01.07.2006
minimum actuating force in directions of actuation	20 N
length of the sensor	85.7 mm
width of the sensor	40 mm
design of the switching contact	mechanical
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 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 acc. to standard</b>	Yes
<b>Drive Head</b>	
<b>design of the actuating element</b>	Other, without, basic switch
<b>design of the switching function</b>	Positive opening with appropriate positive opening actuator head
<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	-25 ... +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>	



[Confirmation](#)



<b>Functional Safety/Safety of Machinery</b>	<b>Declaration of Conformity</b>	<b>Test Certificates</b>	<b>other</b>
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[Type Examination Certificate](#)

[UK Declaration of Conformity](#)



[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=3SE5112-0CA00>

Cax online generator

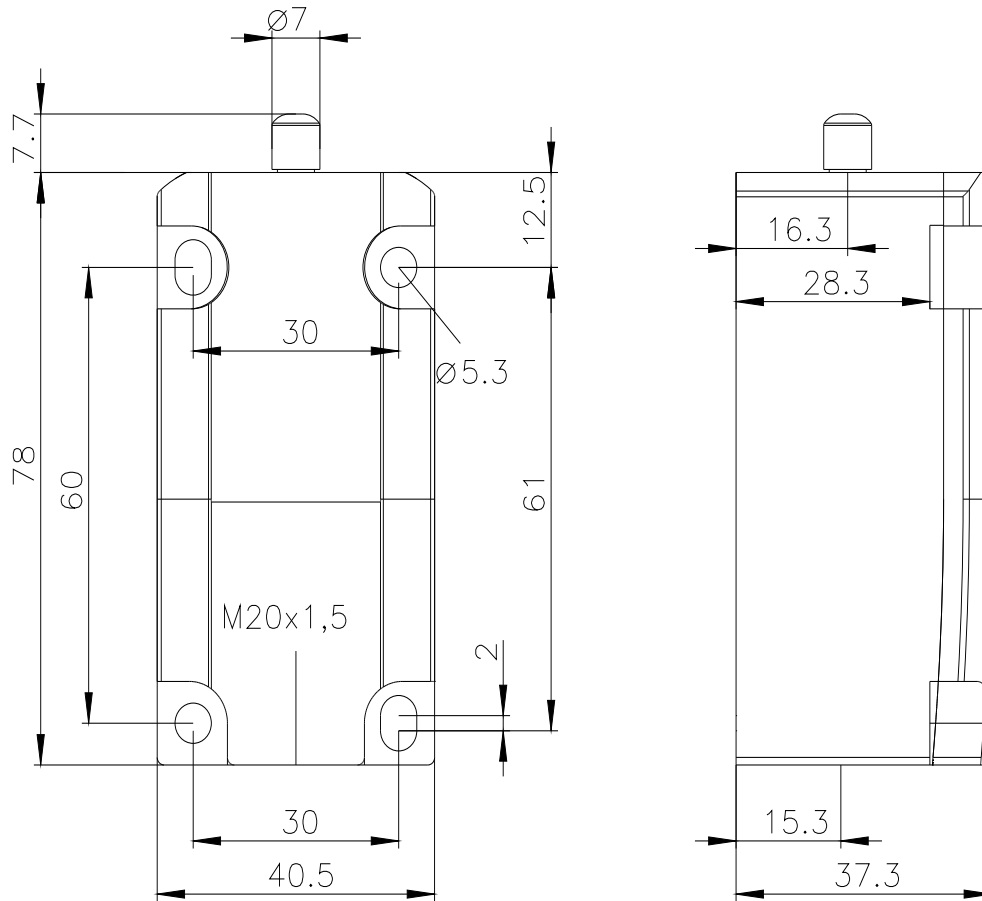
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5112-0CA00>

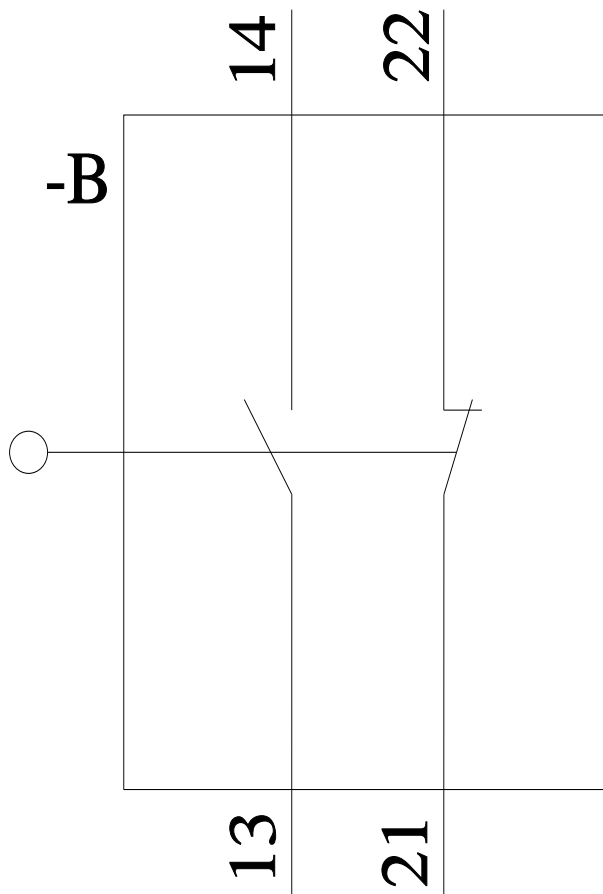
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5112-0CA00>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5112-0CA00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5112-0CA00&lang=en)





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