



safety position switch with guard lock locking force 2600 N 5 approach directions  
solenoid-locked magnet voltage 115 V AC monitoring actuator 2 NC/1 NO  
monitoring magnet 2 NC/1 NO supplied without actuator, actuator 3SE5000-0AV0.  
to be ordered separately.

product brand name	SIRIUS
product designation	Mechanical safety switches
design of the product	with separate actuator and with tumbler
product type designation	3SE5
manufacturer's article number of the optional actuators	3SE5000-0AV01 standard actuator, 3SE5000-0AV02 actuator with vertical fixing, 3SE5000-0AV03 actuator with transverse fixing, 3SE5000-0AV04 radius actuator, approach from left, 3SE5000-0AV05 universal actuator, 3SE5000-0AV06 radius actuator, approach from right, 3SE5000-0AV07 Heavy Duty actuator, 3SE5000-0AW42 actuator with vertical fixing, stainless steel socket, 3SE5000-0AW43 actuator with transverse fixing, stainless steel socket, 3SE5000-0AW51 stainless steel actuator, 3SE5000-0AW52 stainless steel actuator with vertical fixing, 3SE5000-0AW53 stainless steel actuator with transverse fixing
suitability for use safety switch	Yes
<b>General technical data</b>	
product function positive opening	Yes
<b>locking force</b>	2 600 N
• according to EN ISO 14119	2 000 N
<b>insulation voltage rated value</b>	250 V
<b>degree of pollution</b>	class 3
<b>surge voltage resistance rated value</b>	4 kV
<b>protection class IP</b>	IP66/IP67
<b>shock resistance</b>	30g / 11 ms
• according to IEC 60068-2-27	30 g / 11 ms
<b>vibration resistance</b>	0.35 mm / 5 g
• according to IEC 60068-2-6	0.35 mm/5 g
<b>mechanical service life (operating cycles) typical</b>	1 000 000
<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; for a short-circuit current smaller than 400 A
<b>repeat accuracy</b>	0.05 mm
<b>Substance Prohibitance (day/month/year)</b>	10/01/2011
<b>SVHC substance name</b>	Lead CAS-No. 7439-92-1 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1 Imidazolidine-2-thione (2-imidazoline-2-thiol) CAS-No. 96-45-7
<b>Net Weight</b>	0.968 g
<b>minimum actuating force in directions of actuation</b>	30 N
<b>length of the sensor</b>	185 mm

<b>width of the sensor</b>	54 mm
<b>Ambient conditions</b>	
<b>ambient temperature</b>	
• during operation	-25 ... +60 °C
• during storage	-40 ... +80 °C
<b>explosion protection category for dust</b>	none
<b>consumed active power of magnet coil</b>	4.5 W
<b>operational current at AC-15</b>	
• at 24 V rated value	6 A
• at 120 V rated value	6 A
• at 240 V rated value	3 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
<b>Enclosure</b>	
<b>design of the housing</b>	special design
<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>	No
<b>locking mechanism design</b>	magnetic field lock (open-circuit principle)
<b>Drive Head</b>	
<b>design of the actuating element</b>	5 directions of approach
<b>design of the switching function</b>	positive opening
<b>number of directions of actuation</b>	5
<b>circuit principle</b>	slow-action contacts
number of switching contacts safety-related	4
<b>cable entry type</b>	3x (M20 x 1.5)
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	any
<b>fastening method</b>	screw fixing
<b>Connections/ Terminals</b>	
<b>type of electrical connection</b>	screw terminal
<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> )
• for AWG cables solid	1x (20 ... 16), 2x (20 ... 18)
• for AWG cables stranded	1x (20 ... 16), 2x (20 ... 18)
<b>Supply voltage</b>	
<b>supply voltage of magnet coil</b>	115 V
design of the interface for safety-related communication	without
<b>Communication/ Protocol</b>	
<b>design of the interface</b>	without
<b>Safety related data</b>	
product function suitable for safety function	Yes
<b>service life maximum</b>	20 a
<b>test wear-related service life necessary</b>	Yes
<b>proportion of dangerous failures</b>	
• with low demand rate according to SN 31920	20 %
• with high demand rate according to SN 31920	50 %
<b>B10 value with high demand rate according to SN 31920</b>	1 000 000
<b>failure rate [FIT] with low demand rate according to SN 31920</b>	100 FIT
ISO 13849	
<b>device type according to ISO 13849-1</b>	3
IEC 61508	
<b>safety device type according to IEC 61508-2</b>	A
<b>Approvals Certificates</b>	



[Type Test Certificates/Test Report](#)

other

[Confirmation](#)

[Confirmation](#)



Environment

[Environmental Confirmations](#)



Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3SE5312-0SB12>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5312-0SB12>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5312-0SB12>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5312-0SB12&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5312-0SB12&lang=en)



