



Safety position switch with tumbler Locking force 2600 N 5 directions of approaches Solenoid-locked Magnet voltage 230 V AC Monitoring actuator 2 NC/1 NO Monitoring magnet 2 NC/1 NO Supplied without actuator. Actuator 3SE5000-0AV0. please order separately

product brand name  
product designation  
design of the product  
product type designation  
manufacturer's article number of the optional actuators

SIRIUS  
Mechanical safety switches  
with separate actuator and with tumbler  
3SE5  
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  
Yes

suitability for use safety switch

General technical data

product function positive opening	Yes
locking force	2 600 N
• according to EN ISO 14119	2 000 N
insulation voltage rated value	250 V
degree of pollution	class 3
surge voltage resistance rated value	4 kV
protection class IP	IP66/IP67
shock resistance	30g / 11 ms
• according to IEC 60068-2-27	30g / 11 ms
vibration resistance	0.35 mm / 5g
• according to IEC 60068-2-6	0.35 mm/5g
mechanical service life (operating cycles) typical	1 000 000
electrical endurance (operating cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical	1 000 000
Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026	6 000
thermal current	10 A
material of the enclosure of the switch head	metal
reference code according 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; for a short-circuit current smaller than 400 A
repeat accuracy	0.05 mm
Substance Prohibitance (Date)	10/01/2011
minimum actuating force in directions of actuation	30 N
length of the sensor	185 mm
width of the sensor	54 mm

Ambient conditions	
<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 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
Enclosure	
<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
Drive Head	
<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>locking mechanism design</b>	magnetic field lock (open-circuit principle)
Installation/ mounting/ dimensions	
<b>mounting position</b>	any
<b>fastening method</b>	screw fixing
Connections/ Terminals	
<b>type of electrical connection</b>	screw-type terminals
<b>type of connectable conductor cross-sections</b>	
• solid	1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²)
• finely stranded with core end processing	1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²)
• at AWG cables solid	1x (20 ... 16), 2x (20 ... 18)
• at AWG cables stranded	1x (20 ... 16), 2x (20 ... 18)
Supply voltage	
<b>supply voltage of magnet coil</b>	230 V
design of the interface for safety-related communication	without
Communication/ Protocol	
<b>design of the interface</b>	without
Safety related data	
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures with high demand rate according to SN 31920	50 %
Certificates/ approvals	
General Product Approval	



[Confirmation](#)



Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates	other
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#### 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=3SE5312-0SB13>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5312-0SB13>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5312-0SB13>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5312-0SB13&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5312-0SB13&lang=en)



