



Position switch Metal enclosure Plain plunger Snap-action contacts 1 NO+1 NC
Short stroke, special operating travel Slow-action contacts 1 NO+2 NC Tappet
spring Actuating/restoring force 30 N customized

product brand name	SIRIUS
product designation	Mechanical position switches
product type designation	3SE5
manufacturer's article number	
<ul style="list-style-type: none"> • of the supplied actuator head for position switches • of the supplied switching contacts • of the supplied empty enclosure with cover 	3SE5000-0AB01 on request 3SE5162-0AA00
suitability for use safety switch	Yes
General technical data	
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
shock resistance	
<ul style="list-style-type: none"> • according to IEC 60068-2-27 	30g / 11 ms
vibration resistance according to IEC 60068-2-6	0.35 mm/5g
mechanical service life (operating cycles) typical	5 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
thermal current	10 A
material of the enclosure of the switch head	plastic
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
active principle	mechanical
repeat accuracy	0.05 mm
Substance Prohibitance (Date)	07/01/2006
SVHC substance name	Imidazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7
Net Weight	0.46 kg
minimum actuating force in directions of actuation	40 N
length of the sensor	125.3 mm
width of the sensor	56 mm
Ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage 	-25 ... +85 °C -40 ... +90 °C
explosion protection category for dust	none
Main circuit	

design of the switching contact	mechanical	
operating frequency rated value	50 ... 60 Hz	
number of NC contacts for auxiliary contacts	3	
number of NO contacts for auxiliary contacts	2	
operational current at AC-15		
• 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	
operational current at DC-13		
• 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	
Enclosure		
design of the housing	block, wide	
material of the enclosure	metal	
coating of the enclosure	cathodic dip coating	
design of the housing according to standard	No	
Drive Head		
design of the actuating element	Rounded plunger, high-grade steel plunger	
standard-compliant actuator head	EN 50041, design B	
shape of the switch head	rounded	
design of the switching function	positive opening	
circuit principle	snap-action contacts and slow-action contacts	
number of switching contacts safety-related	3	
cable entry type	3x (M20 x 1.5)	
Installation/ mounting/ dimensions		
mounting position	any	
fastening method	screw fixing	
Connections/ Terminals		
type of electrical connection	screw terminal	
type of connectable conductor cross-sections		
• solid	1x (0.5 ... 1.5 mm ²), 2x (0.5 ... 0.75 mm ²)	
• finely stranded with core end processing	1x (0.5 ... 1.5 mm ²), 2x (0.5 ... 0.75 mm ²)	
• for AWG cables solid	1x (20 ... 16), 2x (20 ... 18)	
• for AWG cables stranded	1x (20 ... 16), 2x (20 ... 18)	
design of the interface for safety-related communication	without	
Communication/ Protocol		
design of the interface	without	
Safety related data		
product function suitable for safety function	Yes	
service life maximum	20 a	
test wear-related service life necessary	Yes	
proportion of dangerous failures		
• with low demand rate according to SN 31920	20 %	
• with high demand rate according to SN 31920	20 %	
B10 value with high demand rate according to SN 31920	1 000 000	
failure rate [FIT] with low demand rate according to SN 31920	100 FIT	
ISO 13849		
device type according to ISO 13849-1	3	
Approvals Certificates		
General Product Approval	Functional Safety	Test Certificates



[Type Examination Certificate](#)

[Type Test Certificates/Test Report](#)


[Confirmation](#)

[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=3SE5162-0UB01-1AM4>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5162-0UB01-1AM4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5162-0UB01-1AM4>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5162-0UB01-1AM4&lang=en



