## **SIEMENS**

Data sheet 3SE5312-0SB13



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

3SF5

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

locking force

according to EN ISO 14119

insulation voltage rated value

degree of pollution

surge voltage resistance rated value

protection class IP

shock resistance

• according to IEC 60068-2-27

vibration resistance

• according to IEC 60068-2-6

mechanical service life (operating cycles) typical electrical endurance (operating cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025,

3RT1026 typical

Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025,

3RT1026

thermal current

material of the enclosure of the switch head reference code according to IEC 81346-2 continuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link continuous current of the DIAZED fuse link gG

repeat accuracy

**Substance Prohibitance (Date)** 

minimum actuating force in directions of actuation

length of the sensor width of the sensor

Yes

2 600 N

2 000 N

250 V

class 3 4 kV

IP66/IP67

30g / 11 ms

30g / 11 ms

0.35 mm / 5g

0.35 mm/5g

1 000 000

1 000 000

6 000

10 A metal

В

1 A; for a short-circuit current smaller than 400 A

10 A; for a short-circuit current smaller than 400 A

6 A; for a short-circuit current smaller than 400 A

0.05 mm

10/01/2011

30 N

185 mm

54 mm

Ambient conditions			
ambient temperature			
<ul> <li>during operation</li> </ul>	-25 +60 °C		
during storage	-40 +80 °C		
explosion protection category for dust	none		
consumed active power of magnet coil	4 W		
operational current at AC-15			
at 24 V rated value	6 A		
at 120 V rated value	6 A		
at 240 V rated value	3 A		
operational current at DC-13			
<ul> <li>at 24 V rated value</li> </ul>	3 A		
<ul> <li>at 125 V rated value</li> </ul>	0.55 A		
<ul> <li>at 250 V rated value</li> </ul>	0.27 A		
Enclosure			
design of the housing	special design		
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	5 directions of approach		
design of the switching function	positive opening		
number of directions of actuation	5		
circuit principle	slow-action contacts		
number of switching contacts safety-related	4		
cable entry type	3x (M20 x 1.5)		
locking mechanism design	magnetic field lock (open-circuit principle)		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	screw fixing		
Connections/ Terminals			
type of electrical connection	screw-type terminals		
type of connectable conductor cross-sections			
• solid	1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)		
<ul> <li>at AWG cables solid</li> </ul>	1x (20 16), 2x (20 18)		
<ul> <li>at AWG cables stranded</li> </ul>	1x (20 16), 2x (20 18)		
Supply voltage			
supply voltage of magnet coil	230 V		
design of the interface for safety-related communication	without		
Communication/ Protocol			
design of the interface	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 Declaration of Conformity Test Certificates other Machinery	Safety/Safety of	Declaration of Conformity	Test Certificates	other
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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=3SE5312-0SB13

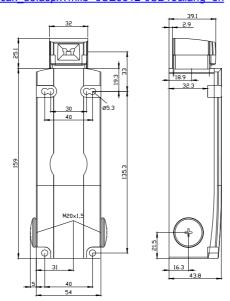
Cax online generator

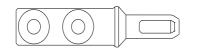
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5312-0SB13

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

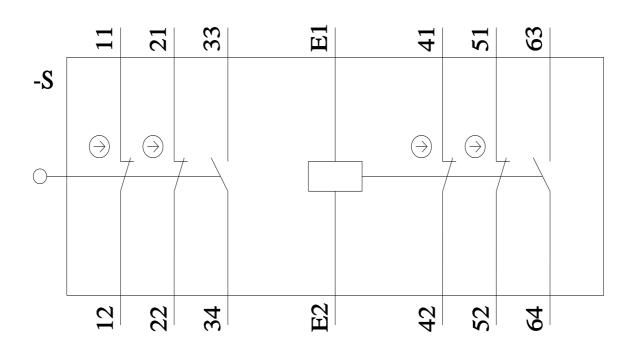
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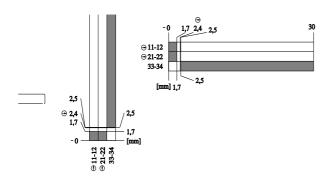
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SE5312-0SB13&lang=en











last modified: 1/26/2022 🖸