# SIEMENS

### Data sheet

## 3SE5312-0SD13



Safety position switch with tumbler Locking force 2600 N 5 directions of approaches Spring-locked Auxiliary release on front 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

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 vertical 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

General technical data	
product function positive opening	Yes
locking force	2 600 N
<ul> <li>according to EN ISO 14119</li> </ul>	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
<ul> <li>according to IEC 60068-2-27</li> </ul>	30g / 11 ms
vibration resistance	0.35 mm / 5g
<ul> <li>according to IEC 60068-2-6</li> </ul>	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	В
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

SIRIUS

Yes

Mechanical safety switches

Ambient conditions	
ambient temperature	
during operation	-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	
<ul> <li>at 24 V rated value</li> </ul>	6 A
<ul> <li>at 120 V rated value</li> </ul>	6 A
<ul> <li>at 240 V rated value</li> </ul>	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
at 250 V rated value	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	spring-actuated lock (closed-circuit principle) with auxiliary release
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw fixing
-	5
Connections/ Terminals	
Connections/ Terminals type of electrical connection	screw-type terminals
type of electrical connection	screw-type terminals
type of electrical connection type of connectable conductor cross-sections • solid	screw-type terminals 1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> )
type of electrical connection type of connectable conductor cross-sections	1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)
type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing	1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (20 16), 2x (20 18)
<ul> <li>type of electrical connection</li> <li>type of connectable conductor cross-sections</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul>	1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)
type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded Supply voltage	1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (20 16), 2x (20 18)
<ul> <li>type of electrical connection</li> <li>type of connectable conductor cross-sections</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul>	1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (20 16), 2x (20 18) 1x (20 16), 2x (20 18)
type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded Supply voltage supply voltage of magnet coil	1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (20 16), 2x (20 18) 1x (20 16), 2x (20 18) 230 V
type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded Supply voltage supply voltage of magnet coil design of the interface for safety-related communication Communication/ Protocol	1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (20 16), 2x (20 18) 1x (20 16), 2x (20 18) 230 V
type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded Supply voltage supply voltage of magnet coil design of the interface for safety-related communication Communication/ Protocol design of the interface	1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (20 16), 2x (20 18) 1x (20 16), 2x (20 18) 230 V without
type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded Supply voltage supply voltage of magnet coil design of the interface for safety-related communication Communication/ Protocol design of the interface Safety related data	1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (20 16), 2x (20 18) 1x (20 16), 2x (20 18) 230 V without without
type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded Supply voltage supply voltage of magnet coil design of the interface for safety-related communication Communication/ Protocol design of the interface Safety related data B10 value with high demand rate according to SN 31920	1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (20 16), 2x (20 18) 1x (20 16), 2x (20 18) 230 V without 1 000 000
type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded Supply voltage supply voltage of magnet coil design of the interface for safety-related communication Communication/ Protocol design of the interface Safety related data	1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (20 16), 2x (20 18) 1x (20 16), 2x (20 18) 230 V without without
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type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded Supply voltage supply voltage of magnet coil design of the interface for safety-related communication Communication/ Protocol design of the interface Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate according to SN 31920 Certificates/ approvals General Product Approval	1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> ) 1x (20 16), 2x (20 18) 1x (20 16), 2x (20 18) 230 V without 1 000 000 20 %
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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=3SE5312-0SD13

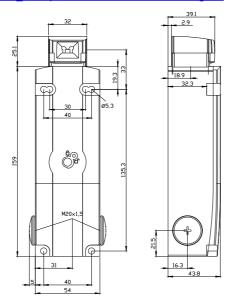
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5312-0SD13

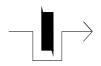
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

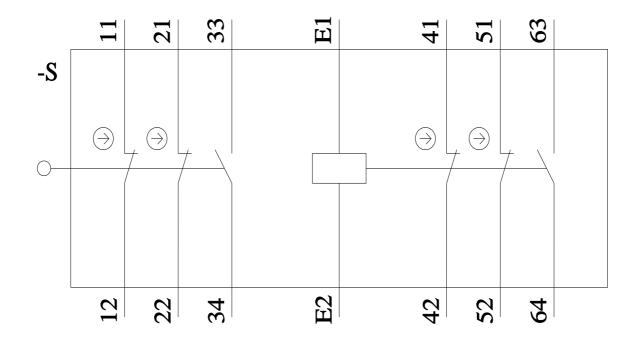
https://support.industry.siemens.com/cs/ww/en/ps/3SE5312-0SD13

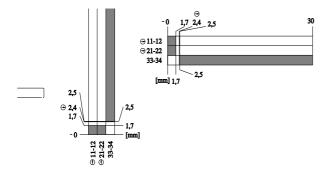
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