SIEMENS

Data sheet 3SE5312-0SG12



Safety position switch with tumbler Locking force 2600 N 5 directions of approaches Spring-locked Escape release from the rear and auxiliary release on front Magnet voltage 115 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	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
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	IP65/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
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
SVHC substance name	Blei - 7439-92-1
minimum actuating force in directions of actuation	30 N
length of the sensor	185 mm
width of the sensor	54 mm
Ambient conditions	
ambient temperature	
during operation	-25 +60 °C
during storage	-40 +80 °C

material of the enclosure eathorized growth enclosure enclosure eathorized growth enclosure enclosur	explosion protection category for dust	none
a 12 4V rated value a 12 0V rated value 3 A operational current at DC-13 a 24 V rated value 3 A operational current at DC-13 a 21 25 V rated value 3 A a 12 50 V rated value 0 .055 A a 12 50 V rated value 2 .027 A calciosure design of the housing material of the enclosure coating of the enclosure design of the housing according to standard No Drive Head design of the switching function positive opening number of switching function positive opening number of switching contacts safety-related a cable entry type 3 x (M20 x 1.5) spring-actualed lock (closed-circuit principle) with escape release from the back and auxiliary release from the front fastening method onnections/ Terminals type of electrical connection type of connectable conductor cross-sections e soild e finely stranded with core end processing e for AWG cables soild e for AWG cables stranded B10 value with high demand rate according to SN 31920 1 000 000 1 000 000 1 000 000 1 000 000	consumed active power of magnet coil	4.5 W
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a 12 4V reled value 3 A	at 120 V rated value	6 A
• at 25 V rated value • at 250 V rated value	at 240 V rated value	3 A
• at 125 V rated value • at 250 V rated value • at 250 V rated value design of the housing material of the enclosure design of the enclosure design of the housing special design material of the enclosure design of the housing secording to standard No Drive Head design of the actuating element design of the sutching function number of directions of actuation circuit principle number of switching contacts safety-related 4 Auchale entry type 3x (M20 x 1.5) locking mechanism design spring-actuated lock (closed-circuit principle) with escape release from the back and auxiliary release from the front mounting position any fastening method screw-type terminals type of electrical connection sype of connectable conductor cross-sections • solid • inferly stranded with core end processing • for AWG cables stranded • for AWG cables franded • for AWG cables franded communication without **Supply voltage of magnet coil ### 115 V design of the interface for safety-related communication without **BIO value with high demand rate according to SN 31920 ### 100 0000 ### 1	operational current at DC-13	
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design of the housing special design metal of the enclosure cathodic dip coating the enclosure cathodic dip coating the enclosure 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 and unwilliary release from the foot and auxiliary release from the foot and auxiliary release from the foot synchologous forms the foot and auxiliary release from the foot synchologous forms the foot and auxiliary release from the fo	at 125 V rated value	0.55 A
material of the enclosure eathorized growth enclosure enclosure eathorized growth enclosure enclosur	at 250 V rated value	0.27 A
material of the enclosure cathodic dip coating design of the housing according to standard both design of the housing according to standard both design of the actuating element both design of the switching function positive opening both design of the switching function positive opening both design of the switching function both design of the switching contacts active properties both design both demands according to SN 31920 both design of both demands according to SN 31920 both design of the interface both	Enclosure	
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design of the housing according to standard below thead design of the actuating element design of the switching function number of directions of actuation circuit principle number of switching contacts safety-related able entry type locking mechanism design spring-actuated lock (closed-circuit principle) with escape release from the back and auxiliary release from the front any fastening method screw fixing connections/ Terminals type of electrical connection spring-actuated with core end processing innely stranded with core end processing innely stranded with core end processing in for AWG cables stranded spring-voltage supply voltage supply voltage of magnet coil design of the interface for safety-related communication safety related deta B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate according to SN 31920 5 directions of approach design of SN 21920 5 directions of approach design of SN 31920 possible opening Sieve-depening Sieve-decircuit principle) with escape release from the back and auxiliary release from the front sow-action contacts 5 directions of approach sow-action contacts and succording to SN 31920 5 directions of approach sow-action contacts and auxiliary release from the front sow-action contacts and succording to SN 31920 5 directions of approach sow-action contacts and succording to SN 31920 5 directions of approach sow-action contacts and succording to SN 31920 5 directions of approach sow-action contacts and succording to SN 31920 5 directions of approach sow-action contacts and succording to SN 31920 5 directions of approach sow-action contacts and succording to SN 31920 5 directions of approach sow-action contacts and succording to SN 31920 5 directions of approach and succording to SN 31920 1 000 000 1 000 000 1 000 000 1 000 000	material of the enclosure	metal
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number of switching contacts safety-related cable entry type 3x (M20 x 1.5) locking mechanism design spring-actuated lock (closed-circuit principle) with escape release from the back and auxiliary release from the front mounting position fastening method connections/ Terminals type of electrical connection screw-type terminals type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded • for AWG cables stranded 1x (20 1.5, mm²), 2x (0.5 0.75 mm²) 1x (20 16), 2x (20 18) • for AWG cables stranded 1x (20 16), 2x (20 18) • for the interface for safety-related communication communication/ Protocol design of the interface without 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	number of directions of actuation	5
cable entry type locking mechanism design spring-actuated lock (closed-circuit principle) with escape release from the back and auxiliary release from the front stallation/ mounting/ dimensions mounting position fastening method connections/ Terminals type of electrical connection type of connectable conductor cross-sections • solid finely stranded with core end processing for AWG cables solid for AWG cables stranded for AWG cables stranded type of magnet coil type of magnet coil efor AWG cables stranded type of magnet coil stranded type of councetable conductor cross-sections • solid finely stranded with core end processing type of connectable conductor cross-sections 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) 1x (20 16), 2x (20 18) supply voltage supply voltage of magnet coil design of the interface for safety-related communication communication/ Protocol design of the interface without 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 1 000 000 proportion of dangerous failures with high demand rate according to SN 31920	circuit principle	slow-action contacts
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and auxiliary release from the front mounting position fastening method screw fixing connections/ Terminals type of electrical connection society peterminals e solid finely stranded with core end processing for AWG cables solid for AWG cables stranded for AWG cables stranded for AWG cables stranded supply voltage supply voltage supply voltage of magnet coil design of the interface for safety-related communication mithout communication/ Protocol design of the interface B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate according to SN 31920 any screw fixing any screw-type terminals tx (0.5 1.5 mm²), 2x (0.5 0.75 mm²) at (0.5 1.5 mm²), 2x (0.5 0.75 mm²) at (20 16), 2x (20 18) by (20 16), 2x (20 18) at (20 16), 2x (20 18) by (20 16), 2x (20 18) by (20 16)	cable entry type	3x (M20 x 1.5)
mounting position fastening method screw fixing type of electrical connection type of connectable conductor cross-sections	locking mechanism design	spring-actuated lock (closed-circuit principle) with escape release from the back and auxiliary release from the front
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type of electrical connection screw-type terminals type of connectable conductor cross-sections solid finely stranded with core end processing for AWG cables solid for AWG cables stranded f	mounting position	any
type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded • for AWG cables solid • for AWG cables	fastening method	screw fixing
type of connectable conductor cross-sections • 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) • for AWG cables solid 1x (20 16), 2x (20 18) • for AWG cables stranded 1x (20 16), 2x (20 18) Supply voltage supply voltage supply voltage of magnet coil 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 proportion of dangerous failures with high demand rate according to SN 31920	Connections/ Terminals	<u>_</u>
solid	type of electrical connection	screw-type terminals
• finely stranded with core end processing • for AWG cables solid • for AWG cables stranded • for AWG cables • for	type of connectable conductor cross-sections	
• for AWG cables solid • for AWG cables stranded 1x (20 16), 2x (20 18) 1x (20 16), 2x (20 18) Supply voltage supply voltage of magnet coil design of the interface for safety-related communication without Communication/ Protocol design of the interface without B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate according to SN 31920 20 %	• solid	1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)
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Supply voltage of magnet coil 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 proportion of dangerous failures with high demand rate according to SN 31920 20 %	 for AWG cables solid 	1x (20 16), 2x (20 18)
supply voltage of magnet coil 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 proportion of dangerous failures with high demand rate according to SN 31920 20 %	 for AWG cables stranded 	1x (20 16), 2x (20 18)
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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 20 %	supply voltage of magnet coil	115 V
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 20 %	design of the interface for safety-related communication	without
B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate according to SN 31920 20 %	Communication/ Protocol	
B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate according to SN 31920 20 %	design of the interface	without
proportion of dangerous failures with high demand rate according to SN 31920	Safety related data	
according to SN 31920	B10 value with high demand rate according to SN 31920	1 000 000
Certificates/ approvals		20 %
	Certificates/ approvals	







Confirmation





General Product Approval

Test Certificates

other

EAC

Type Test Certificates/Test Report

Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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

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=3SE5312-0SG12

Cax online generator

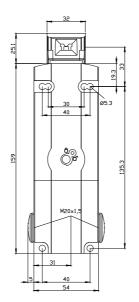
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3SE5312-0SG12}$

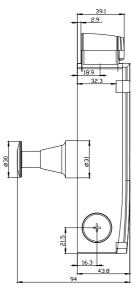
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SE5312-0SG12

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

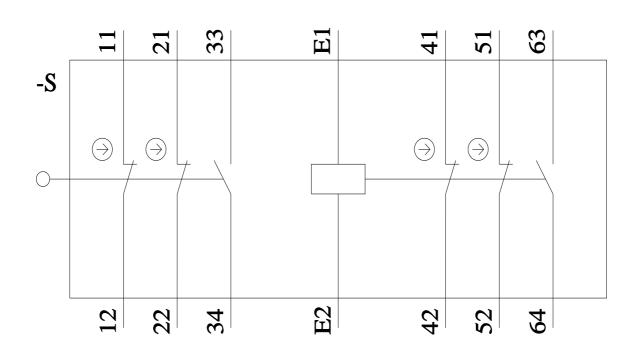
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5312-0SG12&lang=en











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