## SIEMENS

## Data sheet

## 3SE5312-1SJ11



Safety position switch with tumbler Locking force 2600 N 5 directions of approaches Spring-locked Emergency release at the rear and Auxiliary release on front Magnet voltage 24 V DC Monitoring actuator 2 NC/1 NO Monitoring magnet 2 NC/1 NO LED display yellow/green Supplied without actuator. Actuator 3SE5000-0AV0.

4.	
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, 3SE5000-0AW51 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
<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	IP65/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
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 Bleimonoxid (Bleioxid) - 1317-36-8
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

• exing storage     -40+80 °C       consumer active power of magnet cell     3.5 W       operational current at AC-16     6 A       • 1.24 Vriated value     6 A       • • 1.24 Vriated value     0.55 A       • • 1.25 Vriated value     0.27 A       Endeauro     0.27 A       Gesign of the basing encoding is ablanded     No       Prove Istad     100 controls of approach       Gesign of the actualing element     5 directions of approach       Gesign of the actualing element     5 directions of approach       Gesign of the actualing element     5 directions of approach       Control profile     100 poning       number of directions of actualing     100 controls and auxiliary element       Costing of the actualing element     5 directions of actualing element       Costing of the actualing element     5 directions of actualing element       Casting of the actualing element     5 directions of actualing element       Castin a		
consumed active power of magnet coll     3.5 W       operational current at AC-15     6 A       • at 24 V rates value     6 A       • at 25 V rates value     6 A       • at 26 V rates value     6 A       • at 26 V rates value     6 A       • at 26 V rates value     0.55 A       • at 26 V rates value     0.55 A       • at 26 V rates value     0.25 A       • at 26 V rates value     0.27 A       Enclosure     cathig design of the housing coording to standard     No       Orive field     5 directions of approach       design of the nousing according to standard     No       Drive field     5 directions of approach       design of the actuating element     5 directions of approach       design of the actuating element     5 directions of approach       design of the actuating element     5 directions of approach       design of the actuating element     5 directions of approach       design of the actuating element     5 directions of approach       design of the actuating element     5 directions of actuations       cocking mechanism design     approximate of water data       cocking mechanism design     approximate directions </td <td>during storage</td> <td>-40 +80 °C</td>	during storage	-40 +80 °C
cperational current at AC-15 <ul> <li>e1 24 V rated value</li> <li>e1 25 V rated value</li> <li>e1 26 V rated value</li> <li>e1 26 V rated</li></ul>	explosion protection category for dust	none
e1 24 V rade value             e1 25 V rade value             e1 25 V rade value             0.55 A             e1 25 V rade value             e1 25 V rade value             0.55 A             e1 25 V rade value             contract	consumed active power of magnet coil	3.5 W
e1 120 V rate value             e1 23 V rate value             e1 24 V rate value             e1 25 V rate value             for value             e1 25 V rate value             for value	operational current at AC-15	
	at 24 V rated value	6 A
operational current at DC-13     3 A       • all 24 Vraide value     0.55 A       • all 25 Vraide value     0.27 A       design of the housing     special design       material of the enclosure     catholic dip coating       design of the housing executing to standard     No       Drive lead     Single dip coating       design of the suctional current at DC-13     Single dip coating       design of the suctional coating to standard     No       Drive lead     Single dip witching generating to standard       design of the suctional current at DC-13     Single dip witching generating to standard       mumber of directions of actuation     5       existing monthed     stawaction contacts       number of witching contacts safety-related     4       cable entry type     3x (M20 x 1.5)       tocking mechanism design     screw fixing       mounting position     ary       restening method     screw fixing       top of operational current as auxiliary release from the front method     screw fixing       type of operational current as auxiliary release from the front method     screw fixing       top of operational current as auxiliary release from the front method     screw fixing       top of operational current as auxiliary release from the front method     screw fixing       top of operational current as auxiliary release from the	at 120 V rated value	6 A
A 2 V rated value     A      O 55 A     O 57 A     Carted value     Carted value     Carted value     O 57 A     Carted value     Carted v	at 240 V rated value	3 A
• 11 25 V rated value         0.55 A           • 250 V rated value         0.27 A           design of the housing         special design           matrial of the enclosure         eathood dip coating           design of the housing according to standard         No           Drive Head         5 directions of approach           design of the actuating element         5 directions of approach           design of the actuating element         5 directions of approach           design of the actuating outpacts safely-related         4           eable entry type         3x (M20 x 1.5)           locking methanism design         solve station           instantiag method         arry           stationing method         arry           stationing method         arry           stationing method         arry           stationing method         arry           is of alcottical connection         screw baing           Connections/I terminals         screw baing           type of connectable conductor cross-sections         is (0.515 mm?) 2x (0.5075 mm?)           i or AVVG cables standad         1x (0.515 mm?) 2x (0.5075 mm?)           type of voltage of the aptional LED display         DC           supphy voltage of magnet coll         24 V	operational current at DC-13	
- et 250 V rated value     Endours	at 24 V rated value	3 A
Enclosure design of the noclosure design of the noclosure control of the noclosure design of the noclosure control of the noclosure design of the noclosure control of the noclosure design of the noclosure number of directions of actuation software position position fastening method software finals type of connectable conductor cross-sections software forms inclusion of the supply voltage of the notional LED display supply voltage of the supply voltage of the supply voltage of the supply voltage for the supply voltage condition of the supply voltage for the notional communication design of the supply voltage condition of the supply voltage for the notional communication communication Protocol  Conditional  Con	at 125 V rated value	0.55 A
design of the housing     special design       material of the enclosure     metal       coating of the enclosure     catholic dip coating       design of the nuclesure     catholic dip coating       design of the sectuating element     5 directions of approach       design of the setuating element     5 directions of approach       design of the setuating element     5 directions of approach       design of the setuating contacts safety-related     4       cable entry type     5x(M20 x 1.5)       locking mechanism design     spring-actuated lock (closed-circuit principle) with emergency release from the front and auxiliary	at 250 V rated value	0.27 A
meterial of the enclosure     metal       coating of the enclosure     cathod dip coating       design of the housing according to standard     No       Drive Head     5       design of the housing according to standard     positive opening       number of directions of actuation     5       circuit principle     slow-action contacts       number of switching contacts safely-related     4       cable entry type     3x (M20 x 1.5)       focking mechanism design     spring-actuated lock (dosed-circuit principle) with emergency release from the back and auxiliary release from the front and auxiliary release from the front and auxiliary release from the front       fastening method     screw-type terminals       Type of connectable conductor cross-sections     ix (0.5 1.5 mm²), 2x (0.5 0.75 mm²)       involve cables standed     1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)       involve cables standed     1x (20 10, 2x (20 18)       Supply voltage     of the supply voltage of the optional LED display       of rA WC cables standed     24 V       supply voltage of the supply voltage of the optional LED display     DC       Supply voltage of the interface     without       Safety related data     1000 000       Safety related data     20 %       Safety related data     20 %       Safety related data     20 %	Enclosure	
coating of the enclosure     cathodic dip coating       design of the bousing according to standard     No       Prive Itead     5 directions of approach       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 directions of actuation     5       locking mechanism design     spring actuated lock (doeed circuit principle) with energency release from the front and auxilary release from the front and au	design of the housing	special design
design of the housing according to standard     No       Drive Head     5 directions of approach       design of the actuating element     5 directions of approach       design of the actuating function     positive opening       number of directions of actuation     5       circuit principle     slow-action contacts       number of switching contacts safely-related     4       cable ontry type     3s (N20 x 1.5)       locking mechanism design     spring-actuated lock (docad-circuit principle) with emergency release from the front and auxiliary	material of the enclosure	metal
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 safely-related       4         cable entry type       3x (M20 x 1.5)         locking mechanism design       spring-actuated lock (closed circuit principle) with emergency release from the front         Installation/ mounting dimensions       any         fastening method       screw-type terminals         Ype of electrical connection       screw-type terminals         type of connectable conductor cross-sections       is (20 0.15 mm²)         • for AWC cables stranded       1x (20 16), 2x (20 18)         Supply voltage       of the supply voltage of the optional LED display         type of iterace for astely-related communication       without         Communication // Protocol       24 V         supply voltage       in the starder coll         design of the interface for astely-related communication       without         Continuentation // Protocol       24 V         Supply voltage of the supply voltage of the optional LED display       20 %         Sold of the interface       xithy effect <td>coating of the enclosure</td> <td>cathodic dip coating</td>	coating of the enclosure	cathodic dip coating
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 interctions of actuation       5         cible entry type       3x (M20 x 1.5)         locking mechanism design       spring-actuated lock (closed-circuit principle) with emergency release from the front         Installation/ mounting/ dimensions       any         meunting position       any         fastening method       screw fixing         Connections/ Terminals       trype of olectrical connoction         type of olectrical connoction       screw-type terminals         type of olectrical connoction       tx (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> )         type of olectrical connections       tx (20 (1.5, 2x (20 (1.6))         • for AWG cables stinded       tx (20 (1.5, 2x (20 (1.6))         • for AWG cables of the septolytovalage of the optional LED display       DC         supply voltage       of LED       24 V         • of LED       24 V       supply voltage         • of LED       24 V       storety stated data         Bf0 value with high demand rate according to SN 31920       1 000 000         pro	design of the housing according to standard	No
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 look (closed-circuit principle) with emergency release from the front       installation/ mounting/ dimensions     any       fastening method     screw fixing       Connections/ Terminals     type of sectifical connection       type of sectifical connection     screw-type terminals       type of voltage     tx (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> )       is fast standed     tx (20 18)       tor AWG cables solid     tx (20 18)       tor AWG cables stranded     tx (20 18)       supply voltage     ot AWG cables stranded       of LED     24 V       supply voltage of the supply voltage of the optional LED display     DC       of ublog of the interface for safety-related communication     without       Safety related data     1 000 000       B10 value	Drive Head	
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 look (closed-circuit principle) with emergency release from the front       installation/ mounting/ dimensions     any       fastening method     screw fixing       Connections/ Terminals     type of sectifical connection       type of sectifical connection     screw-type terminals       type of voltage     tx (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> )       is fast standed     tx (20 18)       tor AWG cables solid     tx (20 18)       tor AWG cables stranded     tx (20 18)       supply voltage     ot AWG cables stranded       of LED     24 V       supply voltage of the supply voltage of the optional LED display     DC       of ublog of the interface for safety-related communication     without       Safety related data     1 000 000       B10 value	design of the actuating element	5 directions of approach
number of directions of actuation     5       circuit principle     slow-action contacts       number of witching contacts safety-related     4       cable entry type     3x (M20 x 1.5)       locking mechanism design     sping-actuated lock (closed-circuit principle) with emergency release from the front       instaining number of witching contacts safety-related     any       fastening method     ary       connectable conductor cross-sections     screw-type terminals       type of electrical connection     try (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> )       i for AWG cables stranded     1x (20 16), 2x (20 18)       Supply voltage     i for AWG cables stranded       i for AWG cables stranded     24 V       supply voltage of the coptional LED display     DC       supply voltage of magnet coll     24 V       supply voltage of magnet coll     24 V       design of the interface for safety-related communication     without       Safety related data     1000 000       B10 value with high demand rate according to SN 31920     20 %       centificates' approval     20 %       Centificates' approval     Contimation		
number of switching contacts safely-related     4       cable entry type     3x (M20 x 1.5)       locking mechanism design     spring-actuated lock (dosed-circuit principle) with emergency release from the front       Installation/ mounting/ dimensions     mounting position       mounting position     any       fastening method     screw-type terminals       Type of electrical connection     screw-type terminals       type of connectable conductor cross-sections     1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> )       in finely stranded with core end processing     1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> )       if or AWG cables solid     1x (20 16), 2x (20 18)       Supply voltage     bype of the optional LED display       is of LED     24 V       supply voltage     of LED       is of LED     24 V       supply voltage of the supply voltage of the optional LED display       is of LED     24 V       supply voltage     of LED       is of add data     1000 000       Proportion of dangerous failures with high demand rate according to SN 31920     1000 000       proportion of dangerous failures with high demand rate according to SN 31920     1000 000       proportion of dangerous failures with high demand rate according to SN 31920     1000 000       proportion of dangerous failures with high demand rate according to SN 31920     1000 000		
number of switching contacts safely-related     4       cable entry type     3x (M2 x 1.5)       locking mechanism design     spinig-actuated lock (closed-circuit principle) with emergency release from the front and auxiliary release from the front and aux	circuit principle	slow-action contacts
cable entry type       3x (M20 x 1.5)         locking mechanism design       3x (M20 x 1.5)         locking mechanism design       spring-actuated lock (closed-circuit principle) with emergency release from the back and auxiliary release from the front and auxiliary rele		
Iocking mechanism design     spring-actuated lock (closed-circuit principle) with emergency release from the back and auxiliary release from the front and auxiliary release from the front       Installation/ mounting/ dimensions     any       mounting position     any       fastening method     screw fixing       Connectable conductor cross-sections     screw-type terminals       type of electrical connectable conductor cross-sections     screw-type terminals       is finely stranded with core end processing     1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> )       i for AWG cables solid     1x (20 16), 2x (20 18)       i for AWG cables stranded     1x (20 16), 2x (20 18)       Supply voltage     trye of the optional LED display       by of other face for safety-related communication     without       Communication/ Protocol     design of the interface       design of the interface     without       Safety related data     20 %       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 %       Confirmation     Safety/Safety of Machinery       Confirmation     Confirmation		3x (M20 x 1.5)
back and auxiliary release from the front and auxiliary release from the front Installation/ mounting/ dimensions mounting position any fastening method serve fixing Connections/Terminals type of electrical connection cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables solid • for AWG cables solid • for AWG cables stranded • for AWG cables stranded • for AWG cables stranded • for LED • of LED • of LED • of LED • of tel D • of the interface for safety-related communication BTO value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate according to SN 31920 Confirmation Con		
mounting position     any       fastening method     screw fixing       Connections/Terminals     type of electrical connection       type of electrical connection     screw-type terminals       type of connectable conductor cross-sections     infely stranded with core end processing       infely stranded with core end processing     1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> )       infely stranded with core end processing     1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> )       infely stranded with core end processing     1x (0.5 16), 2x (0.5 10, 75 mm <sup>2</sup> )       ior AWG cables stranded     1x (20 16), 2x (20 18)       Supply voltage     or AWG cables stranded       type of voltage of the supply voltage of the optional LED display     DC       supply voltage     of LED       of LED     24 V       supply voltage of magnet coll     24 V       design of the interface for safety-related communication     without       Communication Protocol     without       design of the interface     without       Safety related data     20 %       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 %       Centificates/ approvals     Functional Safety/Safety of Macchinery       General Product Approval     Confirmation	······································	
fastening method       screw fixing         Connections/Terminals       screw-type terminals         type of electrical connection       screw-type terminals         • 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       -         type of voltage of the supply voltage of the optional LED display       DC         supply voltage       -         • of LED       24 V         supply voltage       -         • of LeD       24 V         supply voltage of magnet coll       24 V         design of the interface for safety-related communication       without         Safety/related data       B         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 %         confirmation       Safety/Safety of Macchinery         General Product Approval       Confirmation         Confirmation       Type Examination Certificate         Up or the core       Confirmation	Installation/ mounting/ dimensions	
Connections/ Terminals         type of electrical connection       screw-type terminals         type of electrical connection       screw-type terminals         type of of electrical connection       screw-type terminals         inley stranded with core end processing       1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)         inley stranded with core end processing       1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)         ior AWG cables stranded       1x (20 16), 2x (20 18)         Supply voltage       type of voltage of the supply voltage of the optional LED display         bype of voltage of the supply voltage of the optional LED display       DC         supply voltage       of LED         of LED       24 V         supply voltage of magnet coil       24 V         design of the interface for safety-related communication       without         Safety related data       1000 000         Proportion of dangerous failures with high demand rate according to SN 31920       1000 000         proportion of dangerous failures with high demand rate according to SN 31920       20 %         Centificates/ approvals       Functional Safety/Safety of Machinery         Centificates/ ccc       Confirmation       Type Examination Certificate         tificate       tificate       tificate	mounting position	any
type of electrical connection       screw-type terminals         type of connectable conductor cross-sections       screw-type terminals         • solid       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 (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> )         • for AWG cables solid       1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 0.75 mm <sup>2</sup> )         • for AWG cables stranded       1x (20 16), 2x (20 18)         Supply voltage       0         • for AWG cables stranded       1x (20 16), 2x (20 18)         Supply voltage       • of LED         • of LED       24 V         supply voltage of magnet coll       24 V         design of the interface for safety-related communication       without         Safety related data       1000 000         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       20 %         Centificates/ approvals       Functional Safety'feative of Machinery         General Product Approval       Confirmation         Confirmation       Confirmation	fastening method	screw fixing
type of connectable conductor cross-sections       i.i.         • 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       0 for AWG cables of the optional LED display         type of voltage of the supply voltage of the optional LED display       DC         supply voltage of magnet coll       24 V         supply voltage of magnet coll       24 V         design of the interface for safety-related communication       without         Safety related data       510 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 %       20 %         Certificates/ approvals       Confirmation       Safety related data       5afety related data         General Product Approval       Confirmation       Supply ot Machines       Safety Safety of Machines         General Product Approval       Confirmation       Supply output safety Safety of Machines       Safety Safety of Machines	Connections/ Terminals	
<ul> <li>solid</li> <li>1x (0.5 1.5 mm<sup>3</sup>), 2x (0.5 0.75 mm<sup>3</sup>)</li> <li>finely stranded with core end processing</li> <li>1x (0.5 1.5 mm<sup>3</sup>), 2x (0.5 0.75 mm<sup>3</sup>)</li> <li>for AWG cables solid</li> <li>1x (20 16), 2x (20 18)</li> <li>supply voltage</li> <li>type of voltage of the supply voltage of the optional LED display</li> <li>bC</li> <li>supply voltage</li> <li>of LED</li> <li>24 V</li> <li>supply voltage of magnet coil</li> <li>24 V</li> <li>design of the interface for safety-related communication</li> <li>without</li> <li>Communication/ Protocol</li> <li>design of the interface</li> <li>without</li> <li>Safety/Safety of N3 1920</li> <li>Certificates/ approvals</li> <li>Certificates/ approvals</li> <li>Centimation</li> <li>Confirmation</li> <li>Confirmation</li> <li>Confirmation</li> <li>Certificates/ approvals</li> </ul>	type of electrical connection	screw-type terminals
<ul> <li>finely stranded with core end processing</li> <li>for AWG cables solid</li> <li>for AWG cables solid</li> <li>for AWG cables solid</li> <li>for AWG cables stranded</li> <li>supply voltage of the optional LED display</li> <li>for AUG cables stranded</li> <li>for AUG cables stranded</li> <li>for AUG cables stranded</li> <li>supply voltage of magnet coll</li> <li>col LED</li> <li>24 V</li> <li>supply voltage of magnet coll</li> <li>24 V</li> <li>design of the interface for safety-related communication</li> <li>without</li> <li>communication Protocol</li> <li>design of the interface</li> <li>without</li> <li>safety related data</li> <li>B10 value with high demand rate according to SN 31920</li> <li>for AUG 0000</li> <li>proportion of dangerous failures with high demand rate according to SN 31920</li> <li>for AUG 0000</li> <li>proportion of dangerous failures with high demand rate according to SN 31920</li> <li>for tificates/ approvals</li> </ul> Functional Safety/Safety of Machinery Type Examination Certificate time tificate time tificate time tificate time tificate time tificate	type of connectable conductor cross-sections	
• for AWG cables solid         1x (20 16), 2x (20 18)           • for AWG cables stranded         1x (20 16), 2x (20 18)           Supply voltage         trace of the supply voltage of the optional LED display         DC           supply voltage         • of LED         24 V           supply voltage of magnet coil         24 V           design of the interface for safety-related communication         without           Communication/ Protocol         design of the interface           design of the interface         without           Safety related data         B10 value with high demand rate according to SN 31920           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 %           Certificates/ approvals         Functional Safety/Safety of Machinery           General Product Approval         Confirmation           Exercise         Confirmation           Up         Confirmation	• 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)
• for AWG cables stranded         1x (20 16), 2x (20 18)           Supply voltage         DC           supply voltage         0 C           • of LED         24 V           supply voltage of magnet coil         24 V           design of the interface for safety-related communication         without           Communication/ Protocol	<ul> <li>for AWG cables solid</li> </ul>	1x (20 16), 2x (20 18)
type of voltage of the supply voltage of the optional LED display       DC         supply voltage       24 V         supply voltage of magnet coll       24 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       20 %         Certificates/ approvals         Functional Safety/Safety of Machinery         Type Examination Certificate         USE         Confirmation         USE	<ul> <li>for AWG cables stranded</li> </ul>	1x (20 16), 2x (20 18)
supply voltage       • of LED       24 V         supply voltage of magnet coil       24 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       20 %         Certificates/ approvals         Functional Safety/Safety of Machinery         Confirmation         Type Examination Certificate         USES         Confirmation         Confirmation         USES	Supply voltage	
supply voltage       • of LED       24 V         supply voltage of magnet coil       24 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       20 %         Certificates/ approvals         Functional Safety/Safety of Machinery         Confirmation         Type Examination Certificate         USES         Confirmation         Confirmation         USES	type of voltage of the supply voltage of the optional LED d	display DC
• of LED         24 V           supply voltage of magnet coil         24 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         20 %           Certificates/ approvals           Functional safety/Safety of Machinery           Safety/Safety of Machinery           Type Examination Certificate           Confirmation           Output		
design of the interface for safety-related communication without          Communication/ Protocol         design of the interface       without         Safety related data       Image: Communication of the interface         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       1 000 000         Certificates/ approvals       20 %         General Product Approval       Functional Safety/Safety of Machinery         Image: Confirmation certificate       Image: Confirmation certificate         Image: Confirmation certificate       Image: Confirmation certificate		24 V
design of the interface for safety-related communication without          Communication/ Protocol         design of the interface       without         Safety related data       Image: Communication of the interface         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       1 000 000         Certificates/ approvals       20 %         General Product Approval       Functional Safety/Safety of Machinery         Image: Confirmation certificate       Image: Confirmation certificate         Image: Confirmation certificate       Image: Confirmation certificate		
Communication/ Protocol       without         Safety related data       Image: 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 %         Certificates/ approvals       Eunctional Safety/Safety of Machinery         General Product Approval       Confirmation         Image: Confirmation Certificate       Image: Confirmation Certificate         Image: Certificate       Image: Certificate <td></td> <td></td>		
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 %         Certificates/ approvals       20 %         General Product Approval       Functional Safety/Safety of Machinery         Image: Second Confirmation       Confirmation         Image: Second Confirmation       Type Examination Certificate		
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 %         Certificates/ approvals       20 %         Functional Safety/Safety of Machinery         General Product Approval       Confirmation         Image: Confirmation Certificates       Image: Confirmation Certificate         Image: Certificate Certificate       Image: Certificate         Image: Certificate Certificate       Image: Certificate         Image: Certificate		without
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 %         Certificates/ approvals         Functional Safety/Safety of Ma-chinery         General Product Approval         Confirmation         EFREC         Type Examination Certificate         tificate		maiout
proportion of dangerous failures with high demand rate according to SN 31920       20 %         Certificates/ approvals         Functional Safety/Safety of Machinery         General Product Approval         Confirmation         Type Examination Certificate         Confirmation         USE		1 000 000
Certificates/ approvals         Functional Safety/Safety of Machinery         General Product Approval         Confirmation         Type Examination Certificate         USE         Confirmation         USE		
General Product Approval     Functional Safety/Safety of Machinery       Image: Confirmation Certificate     Image: Confirmation Certificate       Image: Certificate     Image: Certificate		20 /0
General Product Approval     Safety/Safety of Machinery       Image: Confirmation Confi	Certificates/ approvals	
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Declaration of Conformity Test Certificates other Dangerous Good		onfirmation U U U U U U U U U U U U U U U U U U U
	Declaration of Conformity Test C	Certificates other Dangerous Good





Type Test Certificates/Test Report **Confirmation** 

**Transport Information** 

## 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=3SE5312-1SJ11

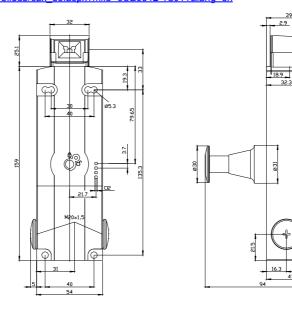
Cax online generator

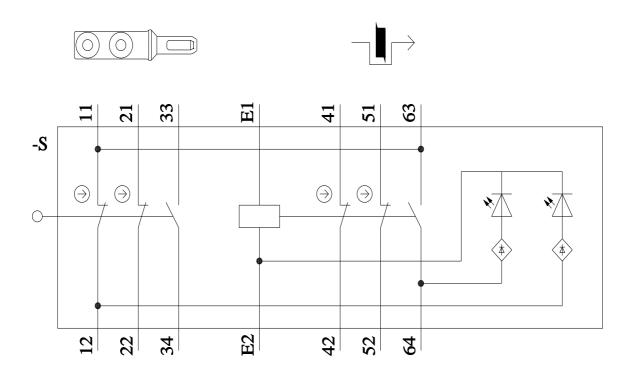
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5312-1SJ11

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

https://support.industry.siemens.com/cs/ww/en/ps/3SE5312-1SJ11

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SE5312-1SJ11&lang=en





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