# **SIEMENS**

Product data sheet 3SE5112-0LA00



BASIC SWITCH FOR POSITION SWITCH 3SE51, METAL ENCLOSURE, ACC. TO EN50041 DEVICE CONNECTION 1X (M20X1.5) 1NO/2NC SNAP-ACTION CONTACTS W/O ACTUATOR HEAD

### Manufacturer article number

• of the basic unit included in the scope of supply

3SE5112-0LA00

General technical data:		
Product designation		basic switch for standard position schwitches
Explosion protection category for dust		none
Insulation voltage		
• rated value	V	400
Degree of pollution		class 3
Thermal current	Α	6
Operating current		
• at AC-15		
• at 24 V / rated value	Α	6
• at 125 V / rated value	Α	6
• at 230 V / rated value	Α	1.5
• at 400 V / rated value	Α	4
• at DC-13		
• at 24 V / rated value	Α	3
• at 125 V / rated value	Α	0.55
• at 230 V / rated value	Α	0.27
Continuous current		

. of the slow DIAZED fuse link			
• of the C characteristic circuit breaker  Mechanical operating cycles as operating time  • typical  Electrical operating cycles as operating time  • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical  • tat Ac-15 / at 230 V / typical  • tat Ac-15 / at 240 V / typical  • tat Ac-15 / at	• of the slow DIAZED fuse link	Α	6
Mechanical operating cycles as operating time  • typical  Electrical operating cycles as operating time  • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT10026 / typical  • at AC-15 / at 230 V / typical  • at AC-15 / at 230 V / typical  Electrical operating cycles in one hour  • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026, 3RT1026 / typical  • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026, 3RT1026 / typical  Repeat accuracy  Possign of the contact element  Number of NC contacts  • for auxiliary contacts  Possign of the switching function  Resistance against vibration  Resistance against vibration  Resistance against vibration  Resistance against vibration  Product specification • for dimensions  Width of the sensor  Midth of the sensor  Material • of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Residen ceals IP  mounting position  Cable gland version  Reference code • according to DIN 40719 extended according to IEC 2042  Reference code • with contacts and in the product specification • for dimensions  Reference code • according to DIN 40719 extended according to IEC 2042  Reference code • contact according to DIN 40719 extended according to IEC 2042  Reference code • with contacts and the product specification • for dimensions  **Contact according to DIN 40719 extended according to IEC 2042  **Contact according to DIN 40719 extended according to IEC 2042  **Contact according to DIN 40719 extended according to IEC 2042  **Contact according to DIN 40719 extended according to IEC 2042  **Contact according to DIN 40719 extended according to IEC 2042  **Contact according to DIN 40719 extended according to IEC 2042  **Contact according to DIN 40719 extended according to IEC 2042  **Contact according to DIN 40719 extended according to IEC 2042  **Contact according to DIN 40719 extended according to IEC 2042  **Contact according to DIN 40719 extended according to IEC 2042  **Contact according to DIN 40719 extended a	of the quick DIAZED fuse link	Α	10
Positival   Posi	of the C characteristic circuit breaker	Α	1
Electrical operating cycles as operating time  • with contactor 3PH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical  • Lectrical operating cycles in one hour  • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026 / typical  • Lectrical operating cycles in one hour  • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1025  • Legostar accuracy  Design of the contact element  Number of NC contacts  • for auxiliary contacts  • for diversity contacts  • for auxiliary contacts  • for aux	Mechanical operating cycles as operating time		
• with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical         4 D,000,000           • at AC-15 / at 230 V / typical         100,000           Electrical operating cycles in one hour         6,000           • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025         mm         0.05           Repeat accuracy         mm         0.05           Design of the contact element         anapaction contacts           • for auxiliary contacts         2           • begin of the switching function         2           Number of NO contacts         5           • for auxiliary contacts         1           Resistance against vibration         5           Resistance against vibration         5           Resistance against vibration         5           Ambient temperature         4           • during operating         6           • during storage         6           • For Uniformity of the sensor         mm           Midderial         • of the enclosure           • for enclosure         metal           • of the enclosure         metal	• typical		15,000,000
### ### ### ### ### ### ### ### ### ##	Electrical operating cycles as operating time		
Electrical operating cycles in one hour			10,000,000
• with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026         6,000           Repeat accuracy         mm         0.05           Design of the contact element         snap-action contacts           • for auxiliary contacts         2           • for auxiliary contacts         2           • for auxiliary contacts         1           Resistance against vibration         0.35 mm / 5g           Resistance against shock         30g / 11 ms           Ambient temperature         • during operating           • during operating         °C         25 +85           • during storage         °C         40 +90           Product specification         EN 50041           • for dimensions         EN 50041           Width of the sensor         mm         40           Material         • of the enclosure         metal           Design of the operating mechanism         without           Actuating speed         mm/s / m/s         0.1 2.5           Minimum actuating force / in activation direction         product for activation	• at AC-15 / at 230 V / typical		100,000
Repeat accuracy mm 0.05  Design of the contact element solution in contacts  • for auxiliary con	Electrical operating cycles in one hour		
Design of the contact element         snap-action contacts           Number of NC contacts			6,000
Number of NC contacts	Repeat accuracy	mm	0.05
to rauxiliary contacts  Design of the switching function  Number of NO contacts  for auxiliary contacts  for auxiliary contacts  1	Design of the contact element		snap-action contacts
Design of the switching function  Number of NO contacts • for auxiliary contacts  Resistance against vibration  Resistance against shock  Ambient temperature • during operating • during storage  Product specification • for dimensions  Width of the sensor  Material Oesign of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP mounting position  Cable gland version  Reference code • according to DIN 40719 extended according to IEC 204-2  Positive opening with appropriate positive opening actuator head  Positive opening with appropriate positive opening actuator head  Positive opening with appropriate positive opening actuator head  1  Positive opening with appropriate positive opening actuator head  1  Positive opening with appropriate positive opening actuator head  1  1  Positive opening with appropriate positive opening actuator head  1  1  Positive opening with appropriate positive opening actuator head  1  1  Positive opening actuator head  1  1  Positive opening with appropriate positive opening actuator head  1  1  Positive opening actuator head  1  1  Positive opening with appropriate positive opening actuator head  1  1  Positive opening actuator head  1  1  Positive opening actuator head  1  Positive opening actuator head  1  Positive opening actuator head  10  Positive opening  2	Number of NC contacts		
Number of NO contacts	for auxiliary contacts		2
* for auxiliary contacts         1           Resistance against vibration         0.35 mm / 5g           Resistance against shock         30g / 11 ms           Ambient temperature         ***C         -25 +85           * during operating         *C         -25 +85           * during storage         *C         -40 +90           Product specification         EN 50041           * for dimensions         mm         40           Material         ***         metal           * of the enclosure         metal           Design of the operating mechanism         without           Actuating speed         mm/s / m/s         0.1 2.5           Minimum actuating force / in activation direction         N         20           Protection class IP         IP66/IP67           mounting position         any           Cable gland version         1x (M20 x 1.5)           Design of the electrical connection         screw-type terminals           Reference code         ***           * according to DIN 40719 extended according to IEC 204-2         S	Design of the switching function		
Resistance against vibration  Resistance against shock  Ambient temperature  · during operating  · during storage  Product specification  · for dimensions  Width of the sensor  Material  · of the enclosure  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  mounting position  Cable gland version  Design of the electrical connection  Reference code  · according to DIN 40719 extended according to IEC 204-2  **C	Number of NO contacts		
Resistance against shock     30g / 11 ms       Ambient temperature     C       • during operating     °C       • during storage     °C       Product specification     EN 50041       • for dimensions     EN 50041       Width of the sensor     mm       Material     metal       • of the enclosure     metal       Design of the operating mechanism     without       Actuating speed     mm/s / m/s     0.1 2.5       Minimum actuating force / in activation direction     N     20       Protection class IP     IP66/IP67       mounting position     any       Cable gland version     1x (M20 x 1.5)       Design of the electrical connection     screw-type terminals       Reference code     screw-type terminals	for auxiliary contacts		1
Ambient temperature  • during operating • during storage  Product specification • for dimensions  Width of the sensor  mm 40  Material • of the enclosure  Design of the operating mechanism  Actuating speed  mm/s / m/s  Minimum actuating force / in activation direction  Protection class IP  mounting position  Cable gland version  Design of the electrical connection  Reference code • according to DIN 40719 extended according to IEC 204-2  **C -25 +85 -25 +85  **EN 50041  EN 50041  **EN 5	Resistance against vibration		0.35 mm / 5g
<ul> <li>during operating</li> <li>during storage</li> <li>C -25 +85</li> <li>during storage</li> <li>C -40 +90</li> </ul> Product specification <ul> <li>for dimensions</li> <li>EN 50041</li> </ul> Width of the sensor <ul> <li>mm</li> <li>40</li> </ul> Material <ul> <li>of the enclosure</li> <li>metal</li> </ul> Design of the operating mechanism <ul> <li>without</li> </ul> Actuating speed <ul> <li>mm/s / m/s</li> <li>0.1 2.5</li> </ul> Minimum actuating force / in activation direction <ul> <li>N</li> <li>20</li> </ul> Protection class IP <ul> <li>mounting position</li> <li>any</li> </ul> Cable gland version <ul> <li>1x (M20 x 1.5)</li> </ul> Design of the electrical connection <ul> <li>screw-type terminals</li> </ul> Reference code <ul> <li>according to DIN 40719 extended according to IEC 204-2</li> </ul> S <ul> <li>S</li> </ul>	Resistance against shock		30g / 11 ms
<ul> <li>during storage</li> <li>C -40 +90</li> <li>Product specification         <ul> <li>for dimensions</li> <li>EN 50041</li> </ul> </li> <li>Width of the sensor</li> <li>mm 40</li> <li>Material         <ul> <li>of the enclosure</li> <li>metal</li> </ul> </li> <li>Design of the operating mechanism</li> <li>without</li> <li>Actuating speed</li> <li>mm/s / m/s</li> <li>0.1 2.5</li> <li>Minimum actuating force / in activation direction</li> <li>N 20</li> </ul> <li>Protection class IP</li> <li>IP66/IP67</li> <li>mounting position</li> <li>any</li> <li>Cable gland version</li> <li>1x (M20 x 1.5)</li> <li>Design of the electrical connection</li> <li>screw-type terminals</li> <li>Reference code         <ul> <li>according to DIN 40719 extended according to IEC 204-2</li> </ul> </li>	Ambient temperature		
Product specification • for dimensions  Width of the sensor  Material • of the enclosure  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  mounting position  Cable gland version  Design of the electrical connection  Reference code • according to DIN 40719 extended according to IEC 204-2  EN 50041  EN 50041  EN 50041  metal  without  metal  vithout  metal  vithout  metal  Proteclion class IP  IP66/IP67  IP66/IP67  IV (M20 x 1.5)  screw-type terminals  Reference code • according to DIN 40719 extended according to IEC 204-2  S	during operating	°C	-25 +85
For dimensions     Midth of the sensor     mm     40  Material     • of the enclosure     metal      Design of the operating mechanism     Actuating speed    mm/s / m/s    0.1 2.5  Minimum actuating force / in activation direction    N     20  Protection class IP	during storage	°C	-40 +90
Width of the sensormm40Material • of the enclosuremetalDesign of the operating mechanismwithoutActuating speedmm/s / m/s0.1 2.5Minimum actuating force / in activation directionN20Protection class IPIP66/IP67mounting positionanyCable gland version1x (M20 x 1.5)Design of the electrical connectionscrew-type terminalsReference code • according to DIN 40719 extended according to IEC 204-2S	Product specification		
Material  of the enclosure  Design of the operating mechanism  Actuating speed  mm/s / m/s  0.1 2.5  Minimum actuating force / in activation direction  N  20  Protection class IP  IP66/IP67  mounting position  Cable gland version  1x (M20 x 1.5)  Design of the electrical connection  Reference code  o according to DIN 40719 extended according to IEC 204-2  S  metal  metal  metal  metal  metal  metal  xithout  and  1 2.5	• for dimensions		EN 50041
of the enclosure  Design of the operating mechanism  Actuating speed  mm/s / m/s  0.1 2.5  Minimum actuating force / in activation direction  N  20  Protection class IP  IP66/IP67  mounting position  any  Cable gland version  1x (M20 x 1.5)  Design of the electrical connection  Reference code  according to DIN 40719 extended according to IEC 204-2  S  metal  without  mm/s / m/s  10  20  20  20  31  32  42  53  54  44  44  44  44  44  44  44  44	Width of the sensor	mm	40
Design of the operating mechanism  Actuating speed  mm/s / m/s  0.1 2.5  Minimum actuating force / in activation direction  N  20  Protection class IP  mounting position  Cable gland version  Design of the electrical connection  Reference code  • according to DIN 40719 extended according to IEC 204-2  without  mm/s / m/s  0.1 2.5  N  20  IP66/IP67  any  1x (M20 x 1.5)  screw-type terminals	Material		
Actuating speed mm/s / m/s 0.1 2.5  Minimum actuating force / in activation direction N 20  Protection class IP IP66/IP67  mounting position any  Cable gland version 1x (M20 x 1.5)  Design of the electrical connection screw-type terminals  Reference code  • according to DIN 40719 extended according to IEC 204-2 S	• of the enclosure		metal
Minimum actuating force / in activation direction  Protection class IP  IP66/IP67  mounting position  Cable gland version  1x (M20 x 1.5)  Design of the electrical connection  Reference code  • according to DIN 40719 extended according to IEC 204-2  S  IP66/IP67  any  1x (M20 x 1.5)  S  S	Design of the operating mechanism		without
Protection class IP IP66/IP67  mounting position any  Cable gland version 1x (M20 x 1.5)  Design of the electrical connection screw-type terminals  Reference code  • according to DIN 40719 extended according to IEC 204-2  S  IP66/IP67  any  1x (M20 x 1.5)  S  S	Actuating speed	mm/s / m/s	0.1 2.5
mounting position  Cable gland version  1x (M20 x 1.5)  Design of the electrical connection  Reference code  • according to DIN 40719 extended according to IEC 204-2  any  1x (M20 x 1.5)  screw-type terminals	Minimum actuating force / in activation direction	N	20
Cable gland version 1x (M20 x 1.5)  Design of the electrical connection screw-type terminals  Reference code  • according to DIN 40719 extended according to IEC 204-2 S	Protection class IP		IP66/IP67
Design of the electrical connection screw-type terminals  Reference code  • according to DIN 40719 extended according to IEC 204-2  S	mounting position		any
Reference code  • according to DIN 40719 extended according to IEC 204-2  S	Cable gland version		1x (M20 x 1.5)
according to DIN 40719 extended according to IEC 204-2     S	Design of the electrical connection		screw-type terminals
	Reference code		
• according to DIN EN 61346-2 B	according to DIN 40719 extended according to IEC 204-2		S
	according to DIN EN 61346-2		В

# **Certificates/ approvals:**

### **General Product Approval**

Declaration of Conformity

**Test Certificates** 









Special Test Certificate

other

Confirmation

Vibration Test Certificates

# Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

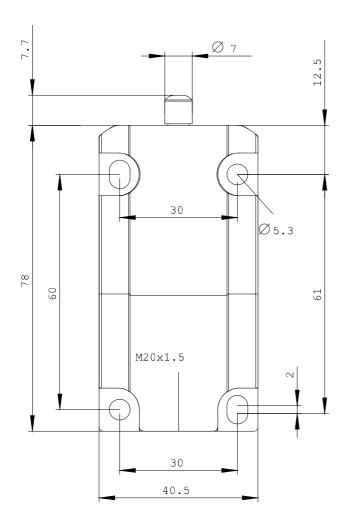
http://www.siemens.com/cax

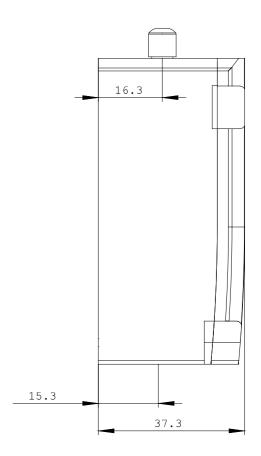
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3SE5112-0LA00/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3SE5112-0LA00





last change: Jul 24, 2014