# **SIEMENS**

Product data sheet 3SE5112-0LD02



SIRIUS POSITION SWITCH METAL ENCLOSURE 40MM TO EN50041 DEVICE CONNECTION 1X (M20X1.5) 1NO/ 2NC SNAP-ACTION CONTACTS ROLLER PLUNGER W. STAINLESS STEEL ROLLER 13MM

### Manufacturer article number

- of the basic unit included in the scope of supply
- of the actuator head for position switches included in the scope of supply

3SE5112-0LA00

3SE5000-0AD02

General technical details:			
product designation		standard position switch	
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 quick DIAZED tase link         A         10           • of the Quick DIAZED tase link         A         10           • of the C characteristic circuit breaker         15,000,000           • trypical         15,000,000           Electrical operating cycles as operating time         10,000,000           • with contactor SRH11, 3RT1018, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical         10,000,000           • cal A-15 / at 230 V / typical         100,000           Electrical operating cycles in one hour         6,000           • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026         6,000           Repeat accuracy         mm         0.5           Design of the contact element         postive opening           • try auxiliary contacts         postive opening           • for auxiliary contacts         1         0.35 mm/5g           Resistance against vibration         1         0.35 mm/5g           Resistance against shock         1         0.35 mm/5g           Resistance against shock         1         0.2586           • during sporating         • C         2586           • during storage         • C         2586           • for dimensions         mm         40           Withith of the housing / of the switch			
of the C characteristic circuit breaker         A         1           Mochanical operating cycles as operating time         15,000,000           1 with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical         10,000,000           2 with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / sylpical         100,000           Electrical operating cycles in one hour         with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026         6,000           Repeat accuracy         rmm         0.05           Repeat accuracy         rmm         0.05           Number of NC contacts         2         2           1 for auxiliary contacts         2         2           Design of the switching function         2         2           Number of NC contacts         2         2           1 for auxiliary contacts         4         3           Resistance against vibration         4         3         3           1 for auxiliary contacts         4         3         3           Resistance against vibration         4         3         3           4 carding operating         4         4         4           4 during operating         4         4         9           Product specification         8         1<	of the slow DIAZED fuse link	Α	6
Mechanical operating cycles as operating time	of the quick DIAZED fuse link	Α	10
	of the C characteristic circuit breaker	Α	1
Petertical operating cycles as operating time   *vikit contactor SRI+111, SRT1016, SRT1017, SRT1024, SRT1025, SRT10267, Vipical   100,000,000     *vikit contactor SRI+111, SRT1016, SRT1017, SRT1024, SRT1025, SRT1026   100,000,000     *vikit contactor SRI+111, SRT1016, SRT1017, SRT1024, SRT1025, SRT1026   6,000     *Repeat accuracy	Mechanical operating cycles as operating time		
• with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical         10,000,000           • at AC-15 / at 230 V / typical         100,000           Electrical operating cycles in one hour         With contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026         6,000           Repeat accuracy         mm         0.05           Design of the contact element         anap-action contacts           • In auxiliary contacts         2           • In auxiliary contacts         1           • Feesign of the switching function         1           Number of NO contacts         1           • In auxiliary contacts         1           • Resistance against vibration         305 / 11 ms           Resistance against shock         305 / 11 ms           Ambient temperature         • Uning operating           • during operating         °C         2585           • during storage         °C         4090           Product specification         Image: Secondary of the switch head         Image: Secondary of the switch head           • of the housing         metal           • of the housing / of the switch head         metal           Material / of the housing / of the switch head         metal           Material / of the housing / of the switch head         metal	• typical		15,000,000
*ATTO-26 / typical  *IDECTICAL OPERATING SY / typic	Electrical operating cycles as operating time		
Electrical operating cycles in one hour  *with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  Repeat accuracy  Design of the contact element  Number of NC contacts  *for auxiliary contacts  *for auxiliary contacts  *for auxiliary contacts  *none of NC contacts  *for auxiliary cont			10,000,000
* with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  Repeat accuracy  mm  0.05  Design of the contact element  **Number of NC contacts  **or auxilitary contac	• at AC-15 / at 230 V / typical		100,000
Repeat accuracy mm 0.05  Design of the contact element Number of NC 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
• for auxiliary contacts         2           Design of the switching function         positive opening           Number of NO contacts • for auxiliary contacts         1           Resistance against vibration         0.35 mm / 5g           Resistance against shock         30g / 11 ms           Ambient temperature • during operating • during storage         °C         -25 85           • during storage         °C         -40 90           Product specification • for dimensions         EN 50041           Width of the sensor         mm         40           material • of the housing         metal           eduring specification for the eoperating mechanism         metal           Actuating speed         mm/s / m/s         0.1 1           Actuating speed         mm/s / m/s         0.1 1           Minimum actuating force / in activation direction         N         20           Protection class IP         IP66/IP67           Built in orientation         any           Cable gland version         1x (M20 x 1.5)           Design of the electrical connection         screw-type terminals           Item designation         screw-type terminals	Design of the contact element		snap-action contacts
Design of the switching function   Number of NO contacts   1   1   1   1   1   1   1   1   1	Number of NC contacts		
Number of NO contacts	• for auxiliary contacts		2
* for auxiliary contacts  Resistance against vibration  Resistance against shock  Ambient temperature     * during operating     * during operating     * during storage     * C     * 25 85     * during storage  Product specification     * for dimensions  Width of the sensor  material     * of the housing  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  mm/s / m/s  Actuating speed  mm/s / m/s  Design of the detertical connection  N  20  Protection class IP  Built in orientation  Cable gland version  Design of the electrical connection  tem designation     * according to DIN 40719 extendable after IEC 204-2  **C  1    * 30g / 11 ms  40 90  EN 50041  EN 50041  **EN 50041	Design of the switching function		positive opening
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         Width of the sensor       mm 40         material       metal         • of the housing / of the switch head       metal         Design of the operating mechanism       stainless steel roller         Actuating speed       mm/s / m/s       0.1 1         Minimum actuating force / in activation direction       N       20         Protection class IP       IP66/IP67         Built in orientation       any         Cable gland version       1x (M20 x 1.5)         Design of the electrical connection       screw-type terminals         Item designation       screw-type terminals	Number of NO contacts		
Resistance against shock  Ambient temperature  • during operating • during storage  Product specification • for dimensions  Width of the sensor  material • of the housing  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  mm/s / m/s  Minimum actuating force / in activation direction  Protection class IP  Built in orientation  Cable gland version  Less 30g / 11 ms  40  EN 50041  EN 50041  Width of the sensor  mm 40  metal  metal  metal  10 stainless steel roller  11 (M20 x 1.5)  12 (M20 x 1.5)  13 (M20 x 1.5)  14 (M20 x 1.5)  15 (M20 x 1.5)  16 (M20 x 1.5)  17 (M20 x 1.5)  18 (M20 x 1.5)  18 (M20 x 1.5)  19 (M20 x 1.5)  19 (M20 x 1.5)  10 (M20 x 1.5)  10 (M20 x 1.5)  11 (M20 x 1.5)  12 (M20 x 1.5)  13 (M20 x 1.5)  14 (M20 x 1.5)  15 (M20 x 1.5)  16 (M20 x 1.5)  17 (M20 x 1.5)  18 (M20 x 1.5)  18 (M20 x 1.5)  19 (M20 x 1.5)  Material / M20 x 1.5  Material / M20 x 1	• for auxiliary contacts		1
Ambient temperature  • during operating • during storage  Product specification • for dimensions  Width of the sensor  material • of the housing  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  Built in orientation  Cable gland version  Design of the electrical connection  Item designation • according to DIN 40719 extendable after IEC 204-2  **C	Resistance against vibration		0.35 mm / 5g
<ul> <li>during storage</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 housing</li> <li>metal</li> </ul> Material / of the housing / of the switch head <ul> <li>metal</li> </ul> Design of the operating mechanism <ul> <li>xtainless steel roller</li> </ul> Actuating speed <ul> <li>mm/s / m/s</li> <li>0.1 1</li> </ul> Minimum actuating force / in activation direction <ul> <li>N</li> <li>20</li> </ul> Protection class IP <ul> <li>Built in orientation</li> <li>any</li> </ul> Cable gland version <ul> <li>1x (M20 x 1.5)</li> <li>screw-type terminals</li> </ul> Let m designation <ul> <li>according to DIN 40719 extendable after IEC 204-2</li> </ul> S <ul> <li>S</li> </ul>	Resistance against shock		30g / 11 ms
• during storage Product specification • for dimensions  Width of the sensor  material • of the housing Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  mm/s / m/s  Minimum actuating force / in activation direction  Protection class IP  Built in orientation  Cable gland version  Design of the electrical connection  Liminal Cable gland version  Design of the electrical connection  Posign of the electrical connection  Say Cable gland version  Liminal Cable	Ambient temperature		
Product specification • for dimensions  Width of the sensor  mm 40  material • of the housing  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  mm/s / m/s  Minimum actuating force / in activation direction  Protection class IP  Built in orientation  Cable gland version  Design of the electrical connection  Posign of the electrical connection  Posign of the electrical connection  Screw-type terminals  Item designation • according to DIN 40719 extendable after IEC 204-2  Bivident of the sensor  EN 50041  metal  metal  metal  metal  metal  metal  metal  metal  netal  posign of the operating mechanism  I N 20  IP66/IP67  IV (M20 x 1.5)  Screw-type terminals	during operating	°C	-25 85
• for dimensions  Width of the sensor  material  • of the housing  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  Built in orientation  Cable gland version  Design of the electrical connection  Posign of the electrical connection  Lamp of the designation  • according to DIN 40719 extendable after IEC 204-2   mm / 40  metal  proteal  metal  metal  proteal  metal  metal  proteal  metal  metal  proteal  metal  proteal  metal  proteal  metal  metal  proteal  metal  proteal  metal  metal  proteal  metal  proteal  metal  proteal  metal  metal  proteal  metal  proteal  metal  metal  proteal  metal  proteal  metal  metal  proteal  metal  metal  proteal  metal  metal  proteal  metal  metal  metal  proteal  metal	during storage	°C	-40 90
Width of the sensor     mm     40       material     of the housing     metal       Material / of the housing / of the switch head     metal       Design of the operating mechanism     stainless steel roller       Actuating speed     mm/s / m/s     0.1 1       Minimum actuating force / in activation direction     N     20       Protection class IP     IP66/IP67       Built in orientation     any       Cable gland version     1x (M20 x 1.5)       Design of the electrical connection     screw-type terminals       Item designation     screw-type terminals       • according to DIN 40719 extendable after IEC 204-2     S	Product specification		
material	• for dimensions		EN 50041
• of the housing  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  mm/s / m/s  0.1 1  Minimum actuating force / in activation direction  N  20  Protection class IP  IP66/IP67  Built in orientation  Cable gland version  Design of the electrical connection  Ix (M20 x 1.5)  Design of the electrical connection  • according to DIN 40719 extendable after IEC 204-2  metal  netal  stainless steel roller  nolle  nolle  stainless steel roller  nolle  nolle  stainless steel roller  nolle  nolless  stainless steel roller  nolles  nolles  stainless steel roller  nolles  nolless steel roller  nolles	Width of the sensor	mm	40
Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  Built in orientation  Cable gland version  Design of the electrical connection  It (M20 x 1.5)  Design of the electrical connection  Let Minimum actuating force / in activation direction  N  20  IP66/IP67  Built in orientation  1x (M20 x 1.5)  Design of the electrical connection  Screw-type terminals  Item designation  • according to DIN 40719 extendable after IEC 204-2  S	material		
Design of the operating mechanism  Actuating speed  mm/s / m/s  0.1 1  Minimum actuating force / in activation direction  N  20  Protection class IP  Built in orientation  Cable gland version  Design of the electrical connection  Item designation  • according to DIN 40719 extendable after IEC 204-2  stainless steel roller  mm/s / m/s  0.1 1  IP66/IP67  any  1x (M20 x 1.5)  screw-type terminals  S	• of the housing		metal
Actuating speed mm/s / m/s 0.1 1  Minimum actuating force / in activation direction N 20  Protection class IP IP66/IP67  Built in orientation any  Cable gland version 1x (M20 x 1.5)  Design of the electrical connection screw-type terminals  Item designation	Material / of the housing / of the switch head		metal
Minimum actuating force / in activation direction  Protection class IP  Built in orientation  Cable gland version  1x (M20 x 1.5)  Design of the electrical connection  tem designation  • according to DIN 40719 extendable after IEC 204-2  N 20  IP66/IP67  any  1x (M20 x 1.5)  screw-type terminals	Design of the operating mechanism		stainless steel roller
Protection class IP  Built in orientation  Cable gland version  Design of the electrical connection  Item designation  • according to DIN 40719 extendable after IEC 204-2  IP66/IP67  any  1x (M20 x 1.5)  screw-type terminals  S	Actuating speed	mm/s / m/s	0.1 1
Built in orientation any  Cable gland version 1x (M20 x 1.5)  Design of the electrical connection screw-type terminals  Item designation  • according to DIN 40719 extendable after IEC 204-2  S	Minimum actuating force / in activation direction	N	20
Cable gland version 1x (M20 x 1.5)  Design of the electrical connection screw-type terminals  Item designation  • according to DIN 40719 extendable after IEC 204-2  S	Protection class IP		IP66/IP67
Design of the electrical connection screw-type terminals  Item designation  • according to DIN 40719 extendable after IEC 204-2  S	Built in orientation		any
Item designation  • according to DIN 40719 extendable after IEC 204-2  S	Cable gland version		1x (M20 x 1.5)
• according to DIN 40719 extendable after IEC 204-2	Design of the electrical connection		screw-type terminals
	Item designation		
according to DIN EN 61346-2     B	according to DIN 40719 extendable after IEC 204-2		S
	according to DIN EN 61346-2		В

## Certificates/approvals:

### **General Product Approval**

For use in hazardous locations

Functional Safety / Safety of Machinery



ROSTEST





 $\frac{\mathsf{DEKRA}\;\mathsf{EXAM,}}{\mathsf{DMT}}$ 

ΤÜV

**Test Certificates** 

other

Manufacturer

other

Manufacturer

## **Further information:**

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

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

Industry Mall (Online ordering system)

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

**CAx-Online-Generator** 

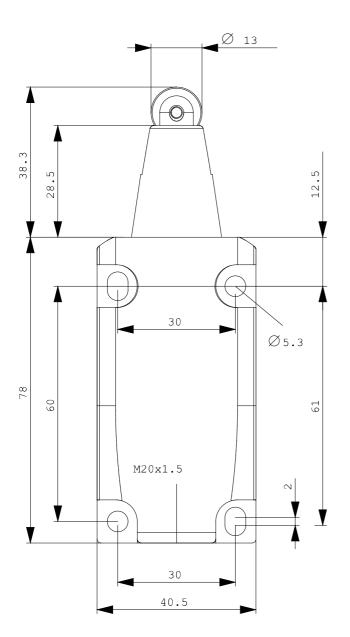
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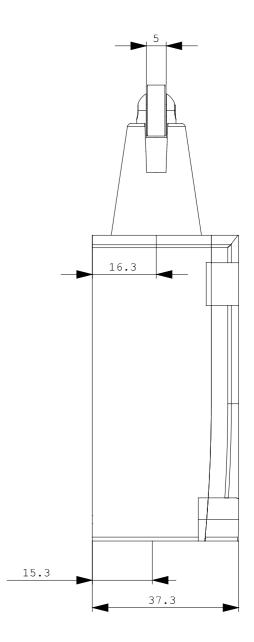
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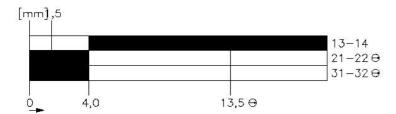
http://support.automation.siemens.com/WW/view/en/3SE5112-0LD02/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3SE5112-0LD02







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