# **SIEMENS**

Product data sheet 3SE5212-0BD03



SIRIUS POSITION SWITCH METAL ENCLOSURE TO EN50047,

31MM DEVICE CONNECTION 1X(M20X1.5); 1NO/1NC SLOW-ACTION CONTACTS ROLLER PLUNGER, FORM C, W. PLASTIC ROLLER 10MM

#### 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

3SE5212-0BC05

3SE5000-0AD03

General technical details:		
product designation		standard position switch
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	3
• 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 Quick DIAZED tase link         2           • AMChanical operating cycles as operating time         • 15,000,000           • Nyllic contactor SRF111, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1028 / typical         10,000,000           • AX-015 / at 230 V / typical         100,000           Electrical operating cycles in one hour         0.00           • with contactor 3RR111, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1028, 3RT1028         5,000           Repeat accuracy         mm         0.05           Design of the contact element           0.05           • Intravalidary contacts           0.05           • Intravalidary contacts           0.05           • Intravalidary contacts           0.05           • Intravalidary contacts           0.05           • Resistance against shock           0.05           • Resistance against shock           0.05           • Aduring operating           0.05           • during storage           0.05           • County specification           0.05           • of the enclosure           0.05           Material of the housing / of the switch head           0.05           Design of the			
• of the C characteristic circuit breaker  *bypical  *bypical  *bypical  *bypical  Electrical operating cycles as operating time  *with contactor SRH11, SRT1016, SRT1017, SRT1024, SRT1025, SRT1026 / typical  *ARC-15 / at 230 V / typical  *arC-15 / at 230 V / typical  *bytical operating cycles in one hour  *with contactor SRH11, SRT1016, SRT1017, SRT1024, SRT1025, SRT1026 / typical  *arC-15 / at 230 V / typical  *bytical operating cycles in one hour  *with contactor SRH11, SRT1016, SRT1017, SRT1024, SRT1025, SRT1026  *Repeat accuracy mm  *bytical operating cycles in one hour  *with contactor SRH11, SRT1016, SRT1017, SRT1024, SRT1024, SRT1025, SRT1026  *Repeat accuracy mm  *bytical operating cycles in one hour  *with contactor SRH11, SRT1016, SRT1017, SRT1024, SRT1024, SRT1025, SRT1026  *Repeat accuracy mm  *bytical operating cycles in one hour  *with contactor SRH11, SRT1016, SRT1017, SRT1024, SRT1024, SRT1025, SRT1026  *Repeat accuracy mm  *bytical operating cycles in one hour  *with contacted element  *both accusting your data  *	• of the slow DIAZED fuse link	Α	6
Mechanical operating cycles as operating time	of the quick DIAZED fuse link	Α	10
**pyicial	of the C characteristic circuit breaker	Α	2
Design of the contacts	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, 3RT1024, 3RT1025, 3RT1026         6,000           Repeat accuracy         mm         0.05           Design of the contact element         sow-action contacts           • In auxiliary contacts         1           • Ior auxiliary contacts         1           • Ior auxiliary contacts         1           • For auxiliary contacts         2           • Grauliary contacts         1           • Grauliary contacts         303g/11 ms           • Grauliary contacts         2           • Grauliary contacts         5           • Grauliary contacts         5           • Guinning storage         °C         25 +85           • Guinning storag	• typical		15,000,000
ART1028 / typical         100,000           Electrical operating cycles in one hour         6,000           with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1028         6,000           Repeat accuracy         mm         0.56           Design of the contact element         slow-action contacts           Number of NC contacts         1           vior auxiliary contacts         1           Possign of the switching function         1           Number of NO contacts         1           vior auxiliary contacts         1           Resistance against vibration         30,5 mm /5g           Resistance against vibration         30,5 mm /5g           Ambient temperature         2           during storage         °C         25+85           during storage         °C         40+90           Product specification         °C         40+90           vior dimensions         mm         31           Width of the sensor         mm         31           width of the enclosure         metal         metal           Material / of the housing / of the switch head         plastic roller           Design of the operating mechanism         N         20           Actuating speed         mm/s / ms<	Electrical operating cycles as operating time		
Electrical operating cycles in one hour         with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026         6,000           Repeat accuracy         mm         0.05           Design of the contact element         Number of NC contacts         1           • for auxiliary contacts         1         1           Resistance against vibration         0.35 mm / 5g         30g / 11 ms           Ambient temperature         • during operating         °C         -25 +85         -40 +90           • during operating         °C         -25 +85         -40 +90         -40 +90           • For dimensions         mm         31			10,000,000
* with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  Repeat accuracy  besign of the contact element  Number of NC contacts  • for auxiliary contacts  • auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • auxiliary contacts  • for auxiliary contacts  • auxiliary contacts  • for diversions  • auxiliary contacts  • auxiliary contac	• at AC-15 / at 230 V / typical		100,000
Repeat accuracy         mm         0.05           Design of the contact element         contacts         slow-action contacts           Number of NC contacts         1           • for auxiliary contacts         1           Design of the switching function         positive opening           Number of NO contacts         1           • for auxiliary contacts         2         30g /11 ms           Ambient temperature         2         30g /11 ms           • during operating         °C         25 +85           • during storage         °C         40 +90           Product specification         B         50047           • of the enclosure         metal           Material         • of the enclosure         plastic           Material of the housing / of the switch hea	Electrical operating cycles in one hour		
Design of the contact element     slow-action contacts       Number of NC contacts			6,000
Number of NC contacts	Repeat accuracy	mm	0.05
• for auxiliary 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  Width of the sensor  Material • of the enclosure  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  Protection class IP  mounting position  Cable gland version  Design of the electrical connection  ltem designation • according to DIN 40719 extendable after IEC 204-2  ### According to DIN 40719 extendable after IEC 204-2  ### According to DIN 40719 extendable after IEC 204-2	Design of the contact element		slow-action contacts
Design of the switching function         positive opening           Number of NO contacts	Number of NC contacts		
Number of NO contacts	• for auxiliary contacts		1
* for auxiliary contacts     Resistance against vibration Resistance against shock  Ambient temperature     * during operating     * during storage     * C     * 25 +85     * during storage     * C     * 40 +90  Product specification     * for dimensions  Width of the sensor  mm     * S  Material     * of the enclosure  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 N     * 20  Protection class IP  mounting position  Cable gland version  Design of the electrical connection  tem designation     * according to DIN 40719 extendable after IEC 204-2  **S  **S  **A  **O  **C     * 25 +85  **A0 +90  **EN 50047  **EN 50047  **EN 50047  **In Minimum all  **In Material     * plastic     * orler  **The plastic     * orler	Design of the switching function		positive opening
Resistance against vibration     0.35 mm/5g       Resistance against shock     30g/11 ms       Ambient temperature <ul> <li>during operating</li> <li>during storage</li> <li>C -25 +85</li> <li>40 +90</li> </ul> Product specification <ul> <li>for dimensions</li> <li>EN 50047</li> </ul> Width of the sensor             mm             31               Material <ul> <li>of the enclosure</li> <li>metal</li> </ul> Material/ of the housing / of the switch head             plastic               Design of the operating mechanism             plastic roller               Actuating speed             mm/s/ m/s             0.4 1               Minimum actuating force / in activation direction             N             20               Protection class IP             IP 66/IP67               mounting position             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 enclosure  Material / of the housing / of the switch head  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  Item designation · according to DIN 40719 extendable after IEC 204-2  **C	• for auxiliary contacts		1
Ambient temperature  • during operating • during storage  Product specification • for dimensions  Width of the sensor  Material • of the enclosure  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  mounting position  Cable gland version  Lem designation • according to DIN 40719 extendable after IEC 204-2  **C -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -25 +85  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -26 +90  -27 +90  -27 +90  -28 +90  -29 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -	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> <li>Product specification</li> <li>for dimensions</li> <li>EN 50047</li> <li>Width of the sensor</li> <li>mm 31</li> <li>Material</li> <li>of the enclosure</li> <li>metal</li> <li>Material / of the housing / of the switch head</li> <li>plastic</li> <li>Design of the operating mechanism</li> <li>plastic roller</li> <li>Actuating speed</li> <li>mm/s / m/s</li> <li>0.4 1</li> <li>Minimum actuating force / in activation direction</li> <li>N 20</li> <li>Protection class IP</li> <li>mounting position</li> <li>To All (M20 x 1.5)</li> <li>pesign of the electrical connection</li> <li>tx (M20 x 1.5)</li> <li>besign of the electrical connection</li> <li>screw-type terminals</li> <li>term designation</li> <li>according to DIN 40719 extendable after IEC 204-2</li> </ul>	Resistance against shock		30g / 11 ms
• during storage Product specification • for dimensions  Width of the sensor  Material • of the enclosure  Material / of the housing / of the switch head  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  Posign of the electrical connection  Later any  Cable gland version  Design of the electrical connection  National Cable gland version  Later any  Later any	Ambient temperature		
Product specification • for dimensions  Width of the sensor  mm 31  Material • of the enclosure  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  mounting position  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  SEN 50047  EN 50047  Metal  metal  metal  metal  metal  plastic  plastic roller  metal  netal  plastic  plastic roller  Metal  plastic roller  nounding  plastic roller  nounding speed  mm/s / m/s  0.4 1  IP66/IP67  any  Cable gland version  Screw-type terminals	during operating	°C	-25 +85
befor dimensions       EN 50047  Width of the sensor       mm   31  Material       of the enclosure	during storage	°C	-40 +90
Width of the sensor     mm     31       Material <ul> <li>of the enclosure</li> <li>metal</li> </ul> Material / of the housing / of the switch head     plastic           Design of the operating mechanism         plastic roller           Actuating speed         mm/s / m/s         0.4 1           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           Item designation         screw-type terminals           • according to DIN 40719 extendable after IEC 204-2         S	Product specification		
Material • of the enclosuremetalMaterial / of the housing / of the switch headplasticDesign of the operating mechanismplastic rollerActuating speedmm/s / m/s0.4 1Minimum actuating force / in activation directionN20Protection class IPIP66/IP67mounting positionanyCable gland version1x (M20 x 1.5)Design of the electrical connectionscrew-type terminalsItem designation • according to DIN 40719 extendable after IEC 204-2S	• for dimensions		EN 50047
• of the enclosure  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  mm/s / m/s  N  20  Protection class IP  mounting position  Cable gland version  Design of the electrical connection  Item designation  • according to DIN 40719 extendable after IEC 204-2  metal  metal  plastic  plastic  plastic roller  N  20  Item (M2 1  Actuating speed  mm/s / m/s  N  20  Item (M2 1  screw-type terminals  S  S	Width of the sensor	mm	31
Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  Protection class IP  IP66/IP67  mounting position  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  Plastic	Material		
Design of the operating mechanism  Actuating speed  mm/s / m/s  0.4 1  Minimum actuating force / in activation direction  N  20  Protection class IP  IP66/IP67  mounting position  Cable gland version  Design of the electrical connection  Item designation  • according to DIN 40719 extendable after IEC 204-2  plastic roller  nm/s / m/s  0.4 1  IP66/IP67  any  1x (M20 x 1.5)  screw-type terminals	• of the enclosure		metal
Actuating speed mm/s / m/s 0.4 1  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  Item designation	Material / of the housing / of the switch head		plastic
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  Item 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		plastic roller
Protection class IP  mounting position  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	Actuating speed	mm/s / m/s	0.4 1
mounting position  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	mounting position		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**

Functional Safety / Safety of Machinery Declaration of Conformity













**Test Certificates** 

other

Special Test Certificate Confirmation

## **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:

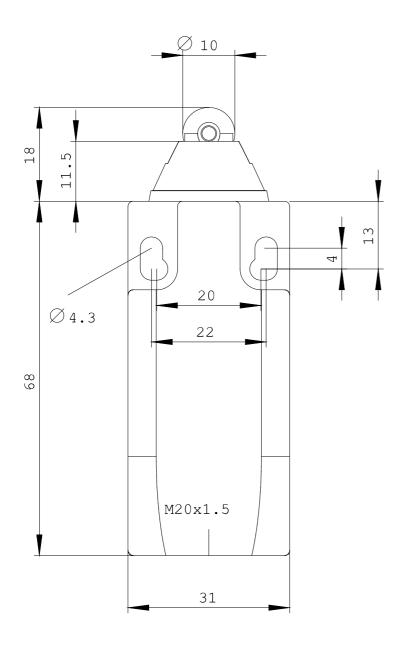
http://www.siemens.com/cax

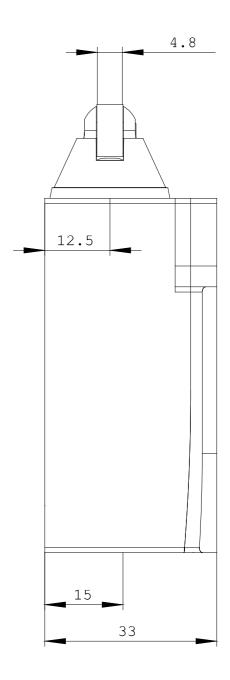
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

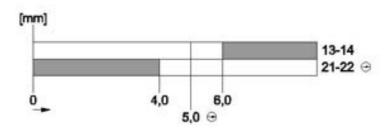
http://support.automation.siemens.com/WW/view/en/3SE5212-0BD03/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3SE5212-0BD03







last change: Jul 1, 2013