# **SIEMENS**

Product data sheet 3SE5212-0CK21



SIRIUS POSITION SWITCH;
METAL HOUSING ACC. TO EN50047,
31MM DEVICE CONNECTION 1X(M20X1.5);
1NO/1NC SNAP-ACTION CONTACTS ROLLER LEVER,
21MM LONG RIGHT/LEFT SIDE ADJUSTABLE W.
PLASTIC ROLLER 19MM

#### 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
- of the operating lever included in the scope of supply

3SE5212-0CC05

3SE5000-0AK00

3SE5000-0AA21

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	8	
• at 230 V / rated value	Α	6	
• at 400 V / rated value	Α	4	
• at DC-13			
• at 24 V / rated value	Α	6	
• at 125 V / rated value	Α	0.55	

A	• at 230 V / rated value	Α	0.27
• of the slow DIAZED fuse link         A         10           • of the quick DIAZED fuse link         A         10           • of the Quick DIAZED fuse link         A         2           Mechanical operating cycles as operating time         typical         15,000,000           • interpretating cycles as operating time         10,000,000         10,000,000           • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026 (sperating cycles in one hour         10,000,000         10,000,000           • interpretating cycles in one hour         mm         0,05         0,000           • contacts dement         mm         0,05         0,000           Repart accuracy         mm         0,05         0,000           Repart accuracy         mm         0,05         0,000           Repart accuracy         mm         0,05         0,000           Design of the contact element         mm         0,05         0,000           Number of NC contacts         possible opening         1         1           • for auxiliary contacts         1         1         1           Resistance against vibration         2         30,11 ms         1           Resistance against vibration         moderating straight plant (moderating type type type type type type type t	• at 400 V / rated value	Α	0.1
***Of the Quick DIAZED fuse link of the C characteristic circuit breaker  ***Office C characteristic circuit breaker  **Office C characteristic circuit characteristic chara	Continuous current		
• of the C characteristic circuit breaker  Mechanical operating cycles as operating time  • bylical  Electrical operating cycles as operating time  • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / bylical  • at AC-15 / at 230 V/ bylopical  • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  Repeat accuracy  Design of the contact element  • bring a with contact element  • bring a with contact element  • bring a without operating volce in one hour  • with contact element  • bring a with contact element  • bring a without operating truction  Number of NC contacts  • for a williary con	• of the slow DIAZED fuse link	Α	6
Mechanical operating cycles as operating time	of the quick DIAZED fuse link	Α	10
Sypical   Sypi	of the C characteristic circuit breaker	Α	2
Electrical operating cycles as operating time	Mechanical operating cycles as operating time		
• with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical         100,000           Electrical operating cycles in one hour         6,000           • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026, 3RT1026         6,000           Repeat accuracy         mm         0.05           Design of the contact element         mm         0.05           Number of NC contacts         for auxiliary contacts         1           • for auxiliary contacts         1         2           • for auxiliary contacts         1         2           • for auxiliary contacts         1         309/11 ms           • for auxiliary contacts         metal         Expression and provided and provided and provided and provided and pr	• typical		15,000,000
3RT1026 / typical       100,000         Electrical operating cycles in one hour       6,000         • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026, 3RT	Electrical operating cycles as operating time		
Electrical operating cycles in one hour			10,000,000
*with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  Repeat accuracy  Design of the contact element  Number of NC contacts  *for auxiliary contacts  *for au	• 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 contacts  • auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • auxiliary contacts  • for auxiliary contacts  • 1  • auxiliary contacts  • 1  • auxiliary contacts  • auxi	Electrical operating cycles in one hour		
Design of the contact element         snap-action contacts           Number of NC contacts         I           • for auxiliary contacts         1           Design of the switching function         positive opening           Number of NO contacts         I           • for auxiliary contacts         1           Resistance against vibration         0.35 mm/5g           Resistance against vibration         30g/11 ms           Ambient temperature         °C         -25 +85           • during operating         °C         -25 +85           • during storage         °C         -40 +90           Product specification         EN 50047           • for dimensions         mm         31           Width of the sensor         mm         31           Material         • of the enclosure         metal           Material / of the housing / of the switch head         plastic           Design of the operating mechanism         mm/s / m/s         0.1 1.5           Actuating speed         mm/s / m/s         0.1 1.5           Protection class IP         in example for the electrical connection         in mm/s / m/s         in m			6,000
Number of NC contacts       1         • for auxiliary contacts       positive opening         Number of NO contacts       positive opening         • for auxiliary contacts       1         Resistance against vibration       305 /m /59         • during operating       °C       -25 +85         • during operating       °C       -25 +85         • during storage       °C       -40 +90         Product specification       mm       31         • for dimensions       metal       metal         Material       plastic       plastic         Material       plastic       metal lever, 21 mm long, straight, plastic roller 19 mm         Actuating speed       mm/s / m/s       01 1.5         Protection class IP       metal lever, 21 mm long, straight, plastic roller 19 mm         mounting position       any         Cable gland version       1x (M20 x 1.5)	Repeat accuracy	mm	0.05
• for auxiliary contacts       1         Number of NO contacts       1         • for auxiliary contacts       1         • 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       -40 +90         Product specification       EN 50047         • for dimensions       EN 50047         Width of the sensor       mm       31         Material       • of the enclosure       metal         Material / of the housing / of the switch head       plastic         Design of the operating mechanism       metal lever, 21 mm long, straight, plastic roller 19 mm         Actuating speed       mm/s / m/s       0.1 1.5         Protection class IP       inetal lever, 21 mm long, straight, plastic roller 19 mm         Cable gland version       any         Cable gland version       1x (M20 x 1.5)         Design of the electrical connection       5 crew-type terminals	Design of the contact element		snap-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         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 50047           Width of the sensor         mm         31           Material             * of the enclosure         metal           Material / of the housing / of the switch head         plastic           Design of the operating mechanism         metal lever, 21 mm long, straight, plastic roller 19 mm           Actuating speed         mm/s / m/s         0.1 1.5           Protection class IP         IP66/IP67           mounting position         any           Cable gland version         1x (M20 x 1.5)           Design of the electrical connection         screw-type terminals	Design of the switching function		positive opening
Resistance against vibration0.35 mm / 5gResistance against shock30g / 11 msAmbient temperature • during operating • during storage°C-25 +85• during storage°C-40 +90Product specification • for dimensionsEN 50047Width of the sensormm31Material • of the enclosuremetalMaterial / of the housing / of the switch headplasticDesign of the operating mechanismmetal lever, 21 mm long, straight, plastic roller 19 mmActuating speedmm/s / m/s0.1 1.5Protection class IPIP66/IP67mounting positionanyCable gland version1x (M20 x 1.5)Design of the electrical connectionscrew-type terminals	Number of NO contacts		
Resistance against shock       30g / 11 ms         Ambient temperature <ul> <li>during operating</li> <li>during storage</li> <li>C -25 +85</li> <li>C -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> plastic         Material / of the housing / of the switch head       plastic         Design of the operating mechanism       metal lever, 21 mm long, straight, plastic roller 19 mm         Actuating speed       mm/s / m/s       0.1 1.5         Protection class IP       IP66/IP67         mounting position       any         Cable gland version       1x (M20 x 1.5)         Design of the electrical connection       screw-type terminals	• 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  Protection class IP mounting position  Cable gland version  Design of the electrical connection  Material / of the electrical connection  Product specification • °C -25 +85 -25 +85 -26 +90  The mounting specification  © C -40 +90  EN 50047  EN 50047  In metal  EN 50047  In metal  In metal  In metal  In plastic  metal lever, 21 mm long, straight, plastic roller 19 mm  mm/s / m/s  In place//  In (M20 x 1.5)  Screw-type terminals	Resistance against vibration		0.35 mm / 5g
• during operating • during storage°C-25 +85• during storage°C-40 +90Product specification • for dimensionsEN 50047Width of the sensormm31Material • of the enclosuremetalMaterial / of the housing / of the switch headplasticDesign of the operating mechanismmetal lever, 21 mm long, straight, plastic roller 19 mmActuating speedmm/s / m/s0.1 1.5Protection class IPIP66/IP67mounting positionanyCable gland version1x (M20 x 1.5)Design of the electrical connectionscrew-type terminals	Resistance against shock		30g / 11 ms
• during storage  • 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  Protection class IP  mounting position  Cable gland version  Design of the electrical connection  Product specification • C -40 +90  read	Ambient temperature		
Product specification • for dimensions  Material • of the enclosure  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Protection class IP  mounting position  Cable gland version  Product specification • for dimensions  EN 50047  metal  metal  plastic  metal lever, 21 mm long, straight, plastic roller 19 mm  mm/s / m/s  0.1 1.5  Profection class IP  ple6/IP67  any  Cable gland version  1x (M20 x 1.5)  posign of the electrical connection  screw-type terminals	during operating	°C	-25 +85
• 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  Actuating speed  Protection class IP  mounting position  Cable gland version  Design of the electrical connection  EN 50047  mem 31  metal  plastic  plastic  metal lever, 21 mm long, straight, plastic roller 19 mm  mm//s / m/s  0.1 1.5  IP66/IP67  any  1x (M20 x 1.5)  screw-type terminals	during storage	°C	-40 +90
Width of the sensormm31Material • of the enclosuremetalMaterial / of the housing / of the switch headplasticDesign of the operating mechanismmetal lever, 21 mm long, straight, plastic roller 19 mmActuating speedmm/s / m/s0.1 1.5Protection class IPIP66/IP67mounting positionanyCable gland version1x (M20 x 1.5)Design of the electrical connectionscrew-type terminals	Product specification		
Material • of the enclosuremetalMaterial / of the housing / of the switch headplasticDesign of the operating mechanismmetal lever, 21 mm long, straight, plastic roller 19 mmActuating speedmm/s / m/s0.1 1.5Protection class IPIP66/IP67mounting positionanyCable gland version1x (M20 x 1.5)Design of the electrical connectionscrew-type terminals	• for dimensions		EN 50047
<ul> <li>• of the enclosure</li> <li>Material / of the housing / of the switch head</li> <li>Design of the operating mechanism</li> <li>Actuating speed</li> <li>Protection class IP</li> <li>mounting position</li> <li>Cable gland version</li> <li>Design of the electrical connection</li> <li>metal lever, 21 mm long, straight, plastic roller 19 mm</li> <li>nmm/s / m/s</li> <li>0.1 1.5</li> <li>IP66/IP67</li> <li>any</li> <li>1x (M20 x 1.5)</li> <li>screw-type terminals</li> </ul>	Width of the sensor	mm	31
Material / of the housing / of the switch headplasticDesign of the operating mechanismmetal lever, 21 mm long, straight, plastic roller 19 mmActuating speedmm/s / m/s0.1 1.5Protection class IPIP66/IP67mounting positionanyCable gland version1x (M20 x 1.5)Design of the electrical connectionscrew-type terminals	Material		
Design of the operating mechanism  Actuating speed  Protection class IP  mounting position  Cable gland version  Design of the electrical connection  metal lever, 21 mm long, straight, plastic roller 19 mm  mm/s / m/s  1.5  IP66/IP67  any  1x (M20 x 1.5)  screw-type terminals	• of the enclosure		metal
Actuating speed mm/s / m/s 0.1 1.5  Protection class IP IP66/IP67  mounting position any  Cable gland version 1x (M20 x 1.5)  Design of the electrical connection screw-type terminals	Material / of the housing / of the switch head		plastic
Protection class IP IP66/IP67  mounting position any  Cable gland version 1x (M20 x 1.5)  Design of the electrical connection screw-type terminals	Design of the operating mechanism		metal lever, 21 mm long, straight, plastic roller 19 mm
mounting position  Cable gland version  1x (M20 x 1.5)  Design of the electrical connection  screw-type terminals	Actuating speed	mm/s / m/s	0.1 1.5
Cable gland version 1x (M20 x 1.5)  Design of the electrical connection screw-type terminals	Protection class IP		IP66/IP67
Design of the electrical connection screw-type terminals	mounting position		any
	Cable gland version		1x (M20 x 1.5)
Item designation	Design of the electrical connection		screw-type terminals
	Item designation		

- according to DIN 40719 extendable after IEC 204-2
- according to DIN EN 61346-2

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## Certificates/approvals:

### **General Product Approval**

Declaration of Conformity













**Test Certificates** 

other

Special Test Certificate Confirmation

## Further information:

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

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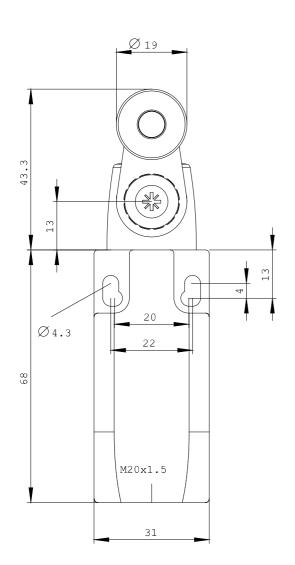
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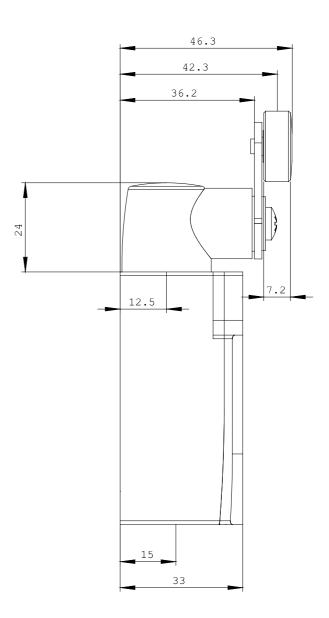
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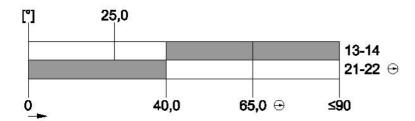
http://support.automation.siemens.com/WW/view/en/3SE5212-0CK21/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3SE5212-0CK21}}$ 







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