# **SIEMENS**

Product data sheet 3SE5112-0BH50



SIRIUS POSITION SWITCH,
METAL ENCLOSURE 40MM,
TO EN50041 DEVICE CONNECTION 1X (M20X1.5)
1NO/1NC SLOW-ACTION CONTACTS ROTARY
ACTUATOR RIGHT/LEFT ADJUSTABLE,
W. LENGTH ADJUSTABLE METAL LEVER 100MM LONG
AND 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

3SE5112-0BA00

3SE5000-0AH00

3SE5000-0AA50

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	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		

Electrical operating cycles as operating time  • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / 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  Repeat accuracy  mm 0.05  Repeat accuracy  Design of the contact element  Number of NC contacts  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  1  Resistance against vibration  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  Protection class IP  Built in orientation  Cable gland version	
* 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  * at AC-15 / at 230 V / typical  Electrical operating cycles in one hour  * with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  Repeat accuracy  mm 0.05  Repeat accuracy  mm 0.05  Number of NC contacts  * for auxiliary contacts  * for during operating  * during operating  * during operating  * or -25  * during storage  Product specification  * for dimensions  Width of the sensor  mm 40  material  * of the housing / of the switch head  Design of the operating mechanism  Actuating speed  mm/s / m/s 0.4  Protection class IP  Built in orientation  Cable gland version  10,00	
Mechanical operating cycles as operating time  • typical  Electrical operating cycles as operating time  • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / 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  Repeat accuracy  mm 0.05  Repeat accuracy  Design of the contact element  Number of NC 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  • of the housing  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Protection class IP  Built in orientation  Cable gland version  10,00  10	
*typical 15,00  Electrical operating cycles as operating time  *with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical  *at AC-15 / at 230 V / typical  *with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  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  *for auxiliary contacts  Resistance against vibration  Resistance against vibration  Resistance against shock  Ambient temperature  *during operating  *or -25  *during storage  Product specification  *for dimensions  Width of the sensor  material  *of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Protection class IP  Built in orientation  Cable gland version  10,00  10,0	
Electrical operating cycles as operating time  • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / 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  Repeat accuracy  Design of the contact element  Number of NC contacts  • for auxiliary contacts  • for auxiliary 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 • of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Protection class IP  Built in orientation  Cable gland version  100,00	
with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical      * at AC-15 / at 230 V / typical      * with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  Repeat accuracy      * with contact element  Number of NC contacts     * for auxiliary contacts      * for auxiliary 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     * of the housing  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Protection class IP  Built in orientation  Cable gland version  100,00	,000,000
3RT1026 / typical  • at AC-15 / at 230 V / typical  • 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  Resistance against vibration  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  Protection class IP  Built in orientation  Cable gland version  100,00  6,000  6,	
Electrical operating cycles in one hour  * with contactor 3RH111, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  Repeat accuracy  mm 0.05  Design of the contact element  Number of NC contacts  * for auxiliary contacts  Resistance against vibration  * during operating  * during operating  * during storage  * C -25  * For dimensions  Width of the sensor  mm 40  material  * of the housing  metal  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  * mm/s / m/s 0.4  Protection class IP  Built in orientation  Cable gland version  # 10.05  # 6,000  # 6,000  # 6,000  # 6,000  # 7 0.05  # 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 7 0.05  # 0	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 auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for during contacts  • during operating • during storage  • 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  Protection class IP  Built in orientation  Cable gland version   mm  0.05  mm  0.05  mm  0.05   Cable gland version  mm  0.05   6,000  mm  0.05  6,000  mm  0.05  END  1	0,000
Repeat accuracy mm 0.05  Design of the contact element slow- Number of NC contacts  • for auxilliary contacts  • for auxilliary contacts  • for auxilliary contacts  • for auxilliary contacts  1  Resistance against vibration 0.35 in a contact temperature  • during operating contacts  • for dimensions contacts  Width of the sensor mm 40  Material / of the housing / of the switch head metal contacts for the operating mechanism metal contacts for the period of the operating mechanism metal contacts for the period of the contact for the period of the contact for the period of the switch head metal contact for the period of the switch head metal for the operating mechanism metal contact for the period of the switch head metal for the operating mechanism metal contact for the period of the switch head metal for the operating mechanism metal for the op	
Design of the contact element  Number of NC contacts  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  1  Resistance against vibration  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  Protection class IP  Built in orientation  Cable gland version  1  1  1  1  1  1  1  1  1  1  1  1  1	00
Number of NC contacts  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  1 Resistance against vibration  Resistance against shock  30g / Ambient temperature  • during operating • during storage  Product specification • for dimensions  EN 5: Width of the sensor  material • of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Protection class IP  Built in orientation  1  1  1  1  1  1  1  1  1  1  1  1  1	5
• for auxiliary contacts  Number of NO contacts  • for auxiliary contacts  • for auxiliary contacts  1  Resistance against vibration  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  Protection class IP  Built in orientation  1  1  1  1  1  1  1  1  1  1  1  1  1	w-action contacts
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  • of the housing  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Protection class IP  Built in orientation  1  0.35  C -25  9  C -25  9  C -40  EN 5  EN	
• for auxiliary contacts  Resistance against vibration  Resistance against shock  30g /  Ambient temperature  • during operating • during storage  Product specification • for dimensions  EN 56  Width of the sensor  material • of the housing  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Protection class IP  Built in orientation  1 (M	
Resistance against vibration  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  Protection class IP  Built in orientation  0.35  30g /  C -25  ° C -40  EN 5:  Which of the sensor  mm 40  metal  Actuating speed  mm/s / m/s  1x (M	
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  Protection class IP  Built in orientation  (C -25  C -25  PC -40  metal  metal  metal  metal  metal  metal  metal  perotection class IP  Built in orientation  Cable gland version	
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  Protection class IP  Built in orientation  Cable gland version  © C -25  ° C -40  EN 50  © C -40  Product specification  mm 40  metal  metal  metal  metal  metal  metal  pesign of the operating mechanism  metal  any  Cable gland version	5 mm / 5g
<ul> <li>during operating</li> <li>during storage</li> <li>C -25</li> <li>during storage</li> <li>C -40</li> </ul> Product specification <ul> <li>for dimensions</li> <li>EN 50</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>metal</li> </ul> Actuating speed <ul> <li>mm/s / m/s</li> <li>0.4</li> </ul> Protection class IP <ul> <li>IP66/</li> </ul> Built in orientation <ul> <li>any</li> </ul> Cable gland version <ul> <li>1x (N</li> </ul>	g / 11 ms
• during storage  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  Protection class IP  Built in orientation  Cable gland version  Product specification  EN 50  mm  40  metal  any  Tax (M	
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  Protection class IP  Built in orientation  Cable gland version  EN 56  mm 40  metal  me	5 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  Protection class IP  Built in orientation  Cable gland version  EN 5  mm 40  metal  any  Total pland version	) 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 metal  Actuating speed mm/s / m/s 0.4  Protection class IP IP66/  Built in orientation any  Cable gland version 1x (M	
material • of the housing  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Protection class IP  Built in orientation  Cable gland version  metal	50041
• of the housing  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Protection class IP  Built in orientation  Cable gland version  metal  me	
Material / of the housing / of the switch head metal  Design of the operating mechanism metal  Actuating speed mm/s / m/s 0.4  Protection class IP IP66/  Built in orientation any  Cable gland version 1x (M	
Design of the operating mechanism  Actuating speed  Protection class IP  Built in orientation  Cable gland version  metal  mm/s / m/s  0.4  IP66/  Built in orientation  1x (M	tal
Actuating speed mm/s / m/s 0.4  Protection class IP IP66/ Built in orientation any Cable gland version 1x (M	tal
Protection class IP IP66/ Built in orientation any Cable gland version 1x (M	stal lever, adjustable length, plastic roller 19 mm
Built in orientation any  Cable gland version 1x (M	1.5
Cable gland version 1x (M	66/IP67
	/
Design of the electrical connection screw	(M20 x 1.5)
	rew-type terminals
Item designation	
according to DIN 40719 extendable after IEC 204-2     S	
according to DIN EN 61346-2	

## 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** 

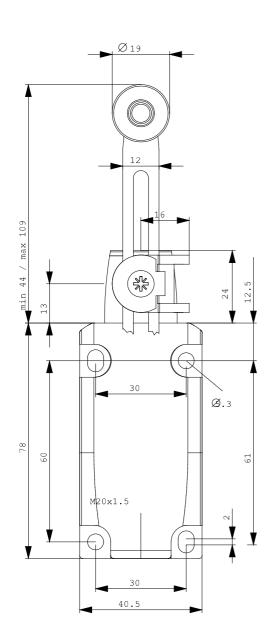
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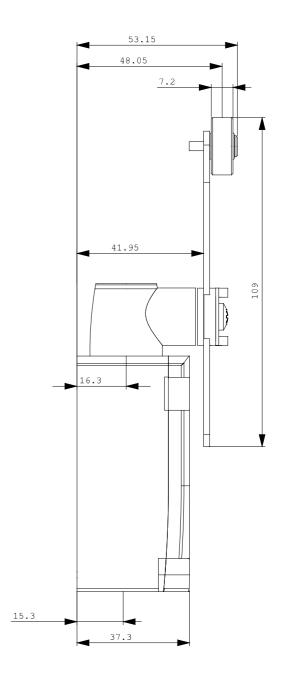
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

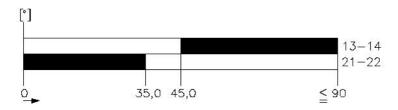
http://support.automation.siemens.com/WW/view/en/3SE5112-0BH50/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3SE5112-0BH50







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