SIEMENS

Product data sheet

3SE5112-0CF03-1DA0



SIRIUS POSITION SWITCH, ATEX METAL ENCLOSURE 40MM TO EN50041 DEVICE CONNECTION 1X (M20X1.5) 1NO/ 1NC SNAP-ACTION CONTACTS ANGULAR STAINLESS STEEL ROLLER LEVER AND PLASTIC ROLLER 22MM

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

3SE5112-0CA00-1DA0

3SE5000-0AF03

General technical details:		
product designation		standard position switch
Product feature		ATEX Zone 21/22
Explosion protection category for dust		Zone 21, 94/9/EC II 2D
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	6
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 - at 400 V / rated value Continuous current - of the slow DIAZED fuse link - of the quick DIAZED fuse link - of a world fuse fuse fuse fuse fuse fuse fuse fuse			
Continuous current A 6 of the slow DIAZED fuse link A 6 of the quick DIAZED fuse link A 10 of the C characteristic circuit breaker A 1 Mechanical operating cycles as operating time * bytical 15,000,000 Electrical operating cycles as operating time * University of the contact SRH11, 3RT1016, 3RT1024, 3RT1025, 3RT1026, 3RT10	• at 230 V / rated value	Α	0.27
of the slow DIAZED fuse link of the quick DIAZED fuse link of the Characteristic circuit breaker decircuit of the Characteristic circuit breaker interest of the Characteristic circuit	• at 400 V / rated value	Α	0.1
of the Quick 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, 3RT1026 fypical in at AC-15 / at 230 V / typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1028 separate accuracy in the contact of a separating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1028 Repeat accuracy mm 0.05 Respect accuracy mm 0.05 Respect accuracy in auxiliary contacts if or auxiliary contacts	Continuous current		
• 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 • at AC-15 / at 230 V / typical Electrical operating cycles in one hour • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025 3RT1026 Repeat accuracy mm 0.05 Repeat accuracy mm 0.05 Resign of the contact element Number of NC contacts • for auxiliary contacts • for auxiliary contacts 1 contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts Product specification • during operating • for during operating • during operating • for during operating • during op	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, 3RT1026 / typical • at AC-15 / at 230 V / typical Electrical operating cycles in one hour • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical Electrical operating cycles in one hour • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 Repeat accuracy mm	of the quick DIAZED fuse link	Α	10
1,500,000 Electrical operating cycles as operating time with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical at AC+15 / 420 V / typical with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical with contactor 3RT1026,	of the C characteristic circuit breaker	Α	1
Electrical operating cycles as operating time • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical Electrical operating cycles in one hour • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / sxT1026 Repeat accuracy Design of the contact element Number of NC contacts • for auxiliary contacts • for auxilia	Mechanical operating cycles as operating time		
• with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical 10,000,000 Electrical operating cycles in one hour • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026 6,000 with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026 6,000 Repeat accuracy mm 0.05 Design of the contact element snap-action contacts • for auxiliary contacts 1 Resistance against vibration 30g / 11 ms Resistance against vibration 0.35 mm / 5g Resistance against shock 30g / 11 ms Ambient temperature • during operating ° C -25 +85 • during storage ° C -40 +90 Product specification mm 40 • of the enclosure metal Material metal • of the enclosure metal Material of the housing / of the switch head metal Desig	• typical		15,000,000
at AC-16 / tay 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 Resign of the contact element Number of NC contacts • for auxiliary contacts • for density in the transport of the switch 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 metal Material / of the housing / of the switch head Design of the operating mechanism Actuating speed metal Minimum actuating force / in activation direction N 10 Protection class IP mounting position Cable gland version 100,000 6,000	Electrical operating cycles as operating time		
Electrical operating cycles in one hour			10,000,000
• with contactor SRH11, 9RT1016, 9RT1017, 9RT1024, 9RT1025, 3RT1026 6,000 Repeat accuracy mm 0.05 Design of the contact element snap-action contacts • for auxiliary contacts 1 Design of the switching function positive opening Number of NO contacts 1 • for auxiliary contacts 30g /11 ms • for auxiliary contacts 30g /11 ms • during operating °C -25 +85 • during operating °C -25 +85 • during storage °C -40 +90 Product specification entert entert • of the enclosure metal Material / of the housing / of the switch head metal Design of the operat	• at AC-15 / at 230 V / typical		100,000
Repeat accuracy mm 0.05 Design of the contact element snap-action contacts For auxiliary contacts F	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 Design of the switching function Number of NO contacts * for auxiliary contacts * for auxiliary contacts * for auxiliary contacts * for auxiliary contacts Resistance against vibration Resistance against shock Ambient temperature * during operating * during storage * C	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 Resistance against vibration 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 1 0 .35 mm / 5g 2 25 +85 - 25 +85 - 25 +85 - 26 +90 PC - 40 +90 PN - 40 +90 EN 50041 EN 50041 Metal metal metal metal metal Stainless steel lever, plastic roller PF66/IP67 mounting position 1 1 1 (M20 x 1.5)	for auxiliary contacts		1
* for auxiliary contacts Resistance against vibration 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 enclosure metal Material / of the housing / of the switch head Design of the operating mechanism Actuating speed mm/s / m/s 0.1 2.5 Minimum actuating force / in activation direction Protection class IP mounting position Cable gland version 1	Design of the switching function		positive opening
Resistance against vibration 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 0.35 mm / 5g 30g / 11 ms 0.30g / 11 ms 0.40g / 12 ms 14 ms 15 metal 16 metal 17 metal 18 metal 19 metal 19 metal 10 metal 1	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 O C -25 +85 -26 +90 mm 40 metal EN 50041 metal metal metal Stainless steel lever, plastic roller mm/s / m/s 0.1 2.5 Minimum actuating force / in activation direction N 10 Protection class IP mounting position Cable gland version 1x (M20 x 1.5)	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 **C	Resistance against vibration		0.35 mm / 5g
 during operating during storage C -25 +85 +00 +90 Product specification for dimensions EN 50041 Width of the sensor mm 40 Material of the enclosure metal Material / of the housing / of the switch head metal Design of the operating mechanism Actuating speed mm/s / m/s 0.1 2.5 Minimum actuating force / in activation direction N 10 Protection class IP mounting position any Cable gland version 1x (M20 x 1.5) 	Resistance against shock		30g / 11 ms
• during storage Product specification • for dimensions EN 50041 Width of the sensor mm 40 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 Cable gland version Product specification EN 50041 metal metal metal Stainless steel lever, plastic roller N 10 Profection class IP mounting position 1x (M20 x 1.5)	Ambient temperature		
Product specification • for dimensions Midth 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 EN 50041 metal metal metal metal Stainless steel lever, plastic roller mm/s / m/s 0.1 2.5 Minimum actuating force / in activation direction N 10 Protection class IP mounting position Lightless in Actuation direction in Actuation direc	during operating	°C	-25 +85
• for dimensions	during storage	°C	-40 +90
Width of the sensor mm 40 Material metal • of the enclosure metal Material / of the housing / of the switch head metal Design of the operating mechanism Stainless steel lever, plastic roller Actuating speed mm/s / m/s 0.1 2.5 Minimum actuating force / in activation direction N 10 Protection class IP IP66/IP67 mounting position any Cable gland version 1x (M20 x 1.5)	Product specification		
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 metal metal Stainless steel lever, plastic roller N 10 Profection Class IP IP66/IP67 any 1x (M20 x 1.5)	• for dimensions		EN 50041
• 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 metal metal metal Stainless steel lever, plastic roller mm/s / m/s 0.1 2.5 N 10 IP66/IP67 any Cable gland version 1x (M20 x 1.5)	Width of the sensor	mm	40
Material / of the housing / of the switch headmetalDesign of the operating mechanismStainless steel lever, plastic rollerActuating speedmm/s / m/s0.1 2.5Minimum actuating force / in activation directionN10Protection class IPIP66/IP67mounting positionanyCable gland version1x (M20 x 1.5)	Material		
Design of the operating mechanism Actuating speed mm/s / m/s 0.1 2.5 Minimum actuating force / in activation direction N 10 Protection class IP mounting position Cable gland version Stainless steel lever, plastic roller mm/s / m/s 0.1 2.5 N 10 IP66/IP67 any 1x (M20 x 1.5)	• of the enclosure		metal
Actuating speed mm/s / m/s 0.1 2.5 Minimum actuating force / in activation direction N 10 Protection class IP IP66/IP67 mounting position any Cable gland version 1x (M20 x 1.5)	Material / of the housing / of the switch head		metal
Minimum actuating force / in activation direction Protection class IP IP66/IP67 mounting position any Cable gland version 1x (M20 x 1.5)	Design of the operating mechanism		Stainless steel lever, plastic roller
Protection class IP IP66/IP67 mounting position any Cable gland version 1x (M20 x 1.5)	Actuating speed	mm/s / m/s	0.1 2.5
mounting position any Cable gland version 1x (M20 x 1.5)	Minimum actuating force / in activation direction	N	10
Cable gland version 1x (M20 x 1.5)	Protection class IP		IP66/IP67
	mounting position		any
Design of the electrical connection screw-type terminals	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
- according to DIN EN 61346-2

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Certificates/approvals:

General Product Approval

For use in hazardous locations

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

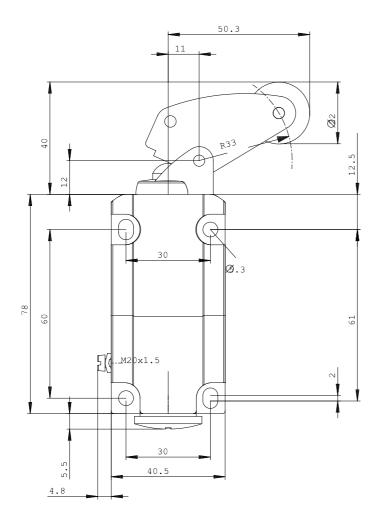
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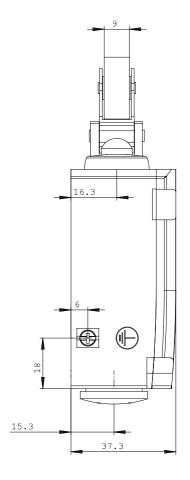
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

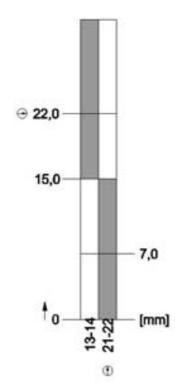
http://support.automation.siemens.com/WW/view/en/3SE5112-0CF03-1DA0/all

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

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