SIEMENS

Product data sheet 3SE5242-0BC05



SIRIUS POSITION SWITCH;
PLASTIC HOUSING ACC. TO EN50047,
50MM DEVICE CONNECTION 2X (M20X1.5);
1NO/1NC SLOW-ACTION CONTACTS TEFLON PLUNGER

Manufacturer article number

• of the basic unit included in the scope of supply

3SE5242-0BC05

General technical data:		
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 slow DIAZED fuse link	Α	6

• of the C characteristic circuit breaker A 2 Mechanical operating cycles as operating time • typical 15,000,000 Electrical operating cycles as operating time • with contactor SRH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical 10,000,000 Electrical operating cycles in one hour • with contactor SRH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1028 6,000 Repeat accuracy mm 0.05 Design of the contact element 0.05 Number of NC contacts 1 0.05 Vigoration of the switching function 1 0.05 Number of NO contacts 1 0.05 Resistance against vibration 1 0.05 Resistance against vibration 0.05 mm / 5 0.05 Resistance against vibration 0.05 mm / 5 0.05 Ambient temperature 0.07 mm / 5 0.05 0.05 Width of the sensor mm 5 0.00 Material of the enclosure of the switch head 1 1 1 Design of the operating mechanism 1 1 1 1 Actuating speed 10 mm / 5 m/ 5 0.00	of the quick DIAZED fuse link	Α	10
• typical Electrical operating cycles as operating time • with contactor SRH11, SRT1016, SRT1017, SRT1024, SRT1024, SRT1026, SRT1026 / typical • at AC-15 / at 230 V / typical Electrical operating cycles in one hour • with contactor 3RH11, SRT1016, SRT1017, SRT1024, SRT1025, SRT1026 Repeat accuracy mm	of the C characteristic circuit breaker	Α	2
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 Repeat accuracy mm 0.05 Resign of the contact element Number of NC contacts • for auxiliary contacts Resistance against vibration Reference of the enclosure Material for the enclosure / of the switch head Design of the operating mechanism Actuating speed mm/s / m/s Actuating speed mm/s	Mechanical operating cycles as operating time		
with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical it at AC-15 / tat 230 V / typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 Repeat accuracy mm 0.05 Besign of the contact element Number of NC contacts •for auxiliary contacts •for auxil	• typical		15,000,000
ART1026 / typical • at AC-15 / at 230 V / typical • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026,	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 Resistance against vibration Resistance against shock Ambient temperature • during operating • during storage Width of the sensor Material • of the enclosure / of the switch head Design of the operating mechanism Actuating speed Material / of the enclosure / of the switch head Design of the operating mechanism Actuating speed Minimum actuating force / in activation direction Protection class IP mounting position Reference code • according to DIN 40719 extended according to IEC 204-2 mm (0.05 mm (0.05 mm (0.05 1 1 1 0.05 mm (0.05 1 1 1 0.05 1 1 0.05 1 1 1 0.05 1 1 1 0.05 1 1 0.05 1 1 0.05 1 1 1 0.05 1 1 1 0.05 1 1 1 0.05 1 1 1 0.05 1 1 0.05 1 1 1 0.05 1 1 1 0.05 1 1 1 0.05 1 1 0.05 1 1 0.05 1 1 0.05			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 for auxiliary contacts lor auxiliary contacts for auxiliary contacts lor auxiliary	• at AC-15 / at 230 V / typical		100,000
Repeat accuracy mm 0.05 Design of the contact element slow-action contacts Number of NC contacts	Electrical operating cycles in one hour		
Design of the contact element Number of NC contacts • for auxiliary contacts Resistance against vibration Resistance against shock Ambient temperature • during operating • during storage • "C -25 +85 • during storage • "C -40 +90 Width of the sensor mm 50 Material • of the enclosure Material / of the enclosure / 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 Reference code • according to DIN 40719 extended according to IEC 204-2 Source desired in auxiliar force / in according to IEC 204-2 Solwana action contacts 1 1 1 1 1 1 1 1 1 1 1 1 1			6,000
Number of NC contacts	Repeat accuracy	mm	0.05
to reauxiliary contacts Design of the switching function Number of NO contacts to for auxiliary contacts Resistance against vibration Resistance against vibration Resistance against shock Ambient temperature to during operating to during storage Width of the sensor Material to the enclosure Material / of the enclosure / of the switch head Design of the operating mechanism Actuating speed Minimum actuating force / in activation direction Minimum actuating force / in activation direction Reference code to according to DIN 40719 extended according to IEC 204-2 Selection class IP Reference code to according to DIN 40719 extended according to IEC 204-2 Selection class IP Reference code to according to DIN 40719 extended according to IEC 204-2 Selection class IP Resistance opening Design of the eventure opening Design of the electrical connection Reference code to according to DIN 40719 extended according to IEC 204-2 Selection class IP Resistance opening Desitive opening Desitive op	Design of the contact element		slow-action contacts
Design of the switching function positive opening Number of NO contacts for auxiliary contacts 1 1 Resistance against vibration 0.35 mm / 5g Resistance against shock 30g / 11 ms Ambient temperature 	Number of NC contacts		
Number of NO contacts • for auxiliary contacts • for auxiliary contacts Resistance against vibration Resistance against vibration Resistance against shock Ambient temperature • during operating • during storage • "C -25 +85 • during storage "C -40 +90 Width of the sensor mm 50 Material • of the enclosure Material / of the enclosure / of the switch head Design of the operating mechanism Actuating speed mm/s / m/s 0.4 1.5 Minimum actuating force / in activation direction N 20 Protection class IP mounting position Cable gland version Design of the electrical connection Reference code • according to DIN 40719 extended according to IEC 204-2 S 1 1 1 1 1 1 1 1 1 1 1 1	for auxiliary contacts		1
* for auxiliary contacts Resistance against vibration Resistance against shock 30g / 11 ms Ambient temperature * during operating * °C -25 +85 * during storage * °C -40 +90 Width of the sensor mm 50 Material * of the enclosure Material / of the enclosure / of the switch head Design of the operating mechanism teflon plunger Actuating speed mm/s / m/s 0.4 1.5 Minimum actuating force / in activation direction Protection class IP mounting position Cable gland version Design of the electrical connection Reference code * according to DIN 40719 extended according to IEC 204-2 S	Design of the switching function		positive opening
Resistance against vibration Resistance against shock Ambient temperature • during operating • during storage **C -25 +85 • during storage **C -40 +90 Width of the sensor mm 50 Material • of the enclosure Material / of the enclosure / 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 Reference code • according to DIN 40719 extended according to IEC 204-2 S -25 +85 -26 +85 -27 +85 -28 +85 -29 +85 -20 +90 -21 +90 -22 +90 -23 +90 -24 +90 -25 +85 -26 +90 -27 +90 -28 +90 -29 +90 -20 +90 -20 +90 -20 +1.5 -20 +90 -20 +1.5 -20 .	Number of NO contacts		
Resistance against shock Ambient temperature • during operating • during storage Width of the sensor Material • of the enclosure Material / of the enclosure / 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 Reference code • according to DIN 40719 extended according to IEC 204-2 S Actuating speed S S Actuating speed mm/s / m/s 20 Protection class IP screw-type terminals	for auxiliary contacts		1
Ambient temperature • during operating • during storage *C -25 +85 • during storage *C -40 +90 Width of the sensor mm 50 Material • of the enclosure Material / of the enclosure / 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 Reference code • according to DIN 40719 extended according to IEC 204-2 S *C -25 +85 -25 +85 -25 +85 -26 +90 -26 +90 -27 +90 -28 +90 -29 +90 -29 +90 -20 +90 -2	Resistance against vibration		0.35 mm / 5g
 during operating during storage C -25 +85 during storage C -40 +90 Width of the sensor Material of the enclosure plastic Material / of the enclosure / of the switch head plastic Design of the operating mechanism teflon plunger Actuating speed mm/s / m/s 0.4 1.5 Minimum actuating force / in activation direction N 20 Protection class IP mounting position any Cable gland version 2 x (M20 x 1.5) Design of the electrical connection screw-type terminals Reference code according to DIN 40719 extended according to IEC 204-2 S	Resistance against shock		30g / 11 ms
• during storage • during storage width of the sensor mm for Material • of the enclosure Material / of the enclosure / 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 Reference code • according to DIN 40719 extended according to IEC 204-2 " "C -40 +90 -40	Ambient temperature		
Width of the sensor Material of the enclosure Material / of the enclosure / 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 Reference code according to DIN 40719 extended according to IEC 204-2 mm 50 mm 50 plastic plastic plastic plastic plastic plastic 1effon plunger Mor 1.5 1.5 Period (No 2.0) protection class IP IP66/IP67 any 2 x (M20 x 1.5) Screw-type terminals	during operating	°C	-25 +85
Material • of the enclosure Material / of the enclosure / of the switch head Design of the operating mechanism Actuating speed mm/s / m/s 0.4 1.5 Minimum actuating force / in activation direction N 20 Protection class IP IP66/IP67 mounting position Cable gland version Design of the electrical connection Reference code • according to DIN 40719 extended according to IEC 204-2 S plastic plastic plastic plastic	during storage	°C	-40 +90
of the enclosure Material / of the enclosure / of the switch head Design of the operating mechanism Actuating speed	Width of the sensor	mm	50
Material / of the enclosure / of the switch head Design of the operating mechanism Actuating speed mm/s / m/s 0.4 1.5 Minimum actuating force / in activation direction N 20 Protection class IP IP66/IP67 mounting position any Cable gland version 2 x (M20 x 1.5) Design of the electrical connection screw-type terminals Reference code • according to DIN 40719 extended according to IEC 204-2 S	Material		
Design of the operating mechanism Actuating speed mm/s / m/s 0.4 1.5 Minimum actuating force / in activation direction N 20 Protection class IP IP66/IP67 mounting position any Cable gland version 2 x (M20 x 1.5) Design of the electrical connection screw-type terminals Reference code • according to DIN 40719 extended according to IEC 204-2 S teffon plunger S extended on the second screw type terminals	of the enclosure		plastic
Actuating speed mm/s / m/s 0.4 1.5 Minimum actuating force / in activation direction N 20 Protection class IP IP66/IP67 mounting position any Cable gland version 2 x (M20 x 1.5) Design of the electrical connection screw-type terminals Reference code • according to DIN 40719 extended according to IEC 204-2 S	Material / of the enclosure / of the switch head		plastic
Minimum actuating force / in activation direction Protection class IP IP66/IP67 mounting position Cable gland version Design of the electrical connection Reference code • according to DIN 40719 extended according to IEC 204-2 N 20 IP66/IP67 any 2 x (M20 x 1.5) Screw-type terminals	Design of the operating mechanism		teflon plunger
Protection class IP mounting position Cable gland version Design of the electrical connection Reference code • according to DIN 40719 extended according to IEC 204-2 IP66/IP67 any 2 x (M20 x 1.5) Screw-type terminals	Actuating speed	mm/s / m/s	0.4 1.5
mounting position Cable gland version 2 x (M20 x 1.5) Design of the electrical connection Reference code • according to DIN 40719 extended according to IEC 204-2 S	Minimum actuating force / in activation direction	N	20
Cable gland version 2 x (M20 x 1.5) Design of the electrical connection screw-type terminals Reference code • according to DIN 40719 extended according to IEC 204-2 S	Protection class IP		IP66/IP67
Design of the electrical connection screw-type terminals Reference code • according to DIN 40719 extended according to IEC 204-2 S	mounting position		any
Reference code • according to DIN 40719 extended according to IEC 204-2 S	Cable gland version		2 x (M20 x 1.5)
according to DIN 40719 extended according to IEC 204-2 S	Design of the electrical connection		screw-type terminals
	Reference code		
• according to DIN EN 61346-2	• according to DIN 40719 extended according to IEC 204-2		S
	according to DIN EN 61346-2		В

Certificates/ approvals:

General Product Approval

Declaration of Conformity

Test Certificates









Special Test Certificate

other

Confirmation

Vibration Test Certificates

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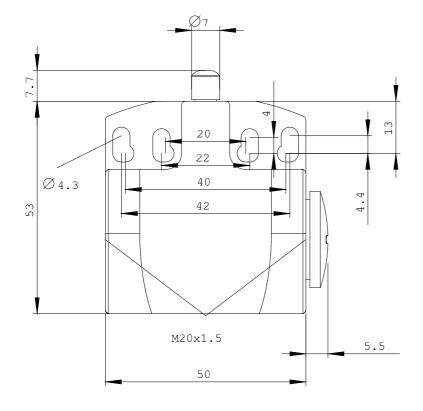
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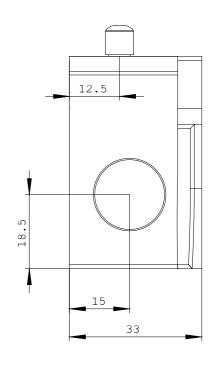
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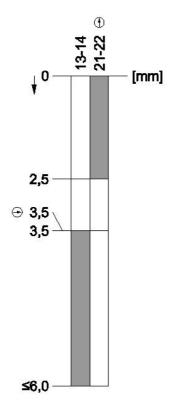
http://support.automation.siemens.com/WW/view/en/3SE5242-0BC05/all

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

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