SIEMENS

Product data sheet 3SE5242-0HD03



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

3SE5242-0HC05

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	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	Α	0.27	

- al 400 V / rated value			
• of the slow DIAZED fuse link A 10 • of the Quick 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 10,000,000 • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / Syrical 100,000 100,000 Electrical operating cycles in one hour • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1028 6,000 Repeat accuracy rm 0.05 Design of the contact element 0.05 Number of NC contacts • contact element • for auxiliary contacts 1 Resistance against shock 1 Ambient temperature 0.035 mm / 5g • during operating °C 25 m + 85 • during operating of the switch head °C 25 m + 85 • during operating °C 25 m + 85 • during operating mecha	• at 400 V / rated value	Α	0.1
• of the Quick DIAZED fuse link	Continuous current		
• of the C characteristic circuit breaker A 2 Mechanical operating cycles as operating time • 'spical 15,000,000 Electrical operating cycles as operating time • 'with contacted RHH1, 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 3RHH1, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1028 6,000 Repeat accuracy mm 0.05 Design of the contact element • 05 000 Number of NC contacts • 1 000 • for auxiliary contacts • 1 000 • fo	of the slow DIAZED fuse link	Α	6
Mechanical operating cycles as operating time	of the quick DIAZED fuse link	Α	10
Positive contacts show the contacts against vibration Positive operating vibration of Number of NC contacts Positive operating vibration Positive o	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 10,000,000 • at AC-15 / at 230 V / typical 100,000 Electrical operating cycles in one hour 6,000 • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026 6,000 Repeat accuracy mm 0.05 Design of the contact element anap-action contacts • for auxiliary contacts 1 • for auxiliary contacts 2 • for auxiliary contacts 2 • for auxiliary contacts 1 • for auxiliary contacts 2 • for auxiliary contacts 2	• typical		15,000,000
SRT1026 / 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 Design of the contact element Number of NC contacts • for auxiliary ontacts Ambient temperature • during operating • during operating • during storage • for auxiliary contacts Material • of the enclosure Material • of the enclosure Material of the housing / of the switch head Design of the operating mechanism Minimum actuating force / in activation direction protection class IP mounting position Cable gland version Design of the electrical connection lem designation • according to DIN 40719 extendable after IEC 204-2 Self auxiliary aux	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 mm 0.05 Number of NC contacts 1 of auxiliary contacts 1 Posign of the switching function positive opening, integrated Number of NC contacts 1 for auxiliary contacts 1 every contacts 1 for auxiliary contacts 1 every contacts 1 every contacts 1 every contacts 1 Resistance against vibration 0.35 mm / 5g Resistance against vibration 0.35 mm / 5g Resistance against shock 30g / 11 ms Ambient temperature *** 25 +85 during operating °C 25 +85 during storage °C 40 +90 Width of the sensor mm 50 Material plastic Actual material plastic roller Actual material			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 Resistance against vibration Resistance against vibration Resistance against shock Ambient temperature • during operating • during storage • during storage 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 Design of the electrical connection Item designation • according to DIN 40719 extendable after IEC 2042 mm/s 0.05 mm/s 0.01 mm/s / m/s 0.01 mm/s / m/s 0.01 mm/s / m/s 0.01 mm/s 106 plastic roller Actuating speed mm/s / m/s 0.01 plastic roller Actuating speed mm/s / m/s 0.01 mm/s / m/s 0.01 plastic roller Actuating speed mm/s / m/s 0.01 mm/s / m/s 0.01 plastic roller Actuating speed mm/s / m/s 0.01 mm/s / m/s 0.01	• at AC-15 / at 230 V / typical		100,000
ART1026 mm 0.05 Design of the contact element mm 0.05 Number of NC contacts *** *** * for auxiliary contacts 1 *** Design of the switching function positive opening, integrated Number of NO contacts *** *** * for auxiliary contacts 1 *** Resistance against vibration 0.35 mm / 5g *** Resistance against shock 0.30g / 11 ms *** Ambient temperature *** *** * during operating *** *** *** * during storage *** *** *** Width of the sensor mm 50 *** Material *** plastic * of the enclosure plastic *** Material / of the housing / of the switch head plastic Design of the operating mechanism *** *** Actuating speed mm/s / m/s 0.1 1 Minimum actuating force / in activation direction N 20	Electrical operating cycles in one hour		
Design of the contact element Number of NC contacts * for auxiliary contacts * lor auxiliary			6,000
Number of NC contacts	Repeat accuracy	mm	0.05
Posign of the switching function Number of NO contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts Resistance against vibration 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, integrated 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 Width of the sensor mm 50 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 tem designation • according to DIN 40719 extendable after IEC 204-2 1 1 0 .35 mm / 5g 30g / 11 ms 0 .30g / 11 ms 1 25 +85 -25 +85 -26 +90 Pole -25 +85 -26 +90 -20 +90 O	Design of the switching function		positive opening, integrated
Resistance against vibration Resistance against shock Ambient temperature • during operating • during storage 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 **O	Number of NO contacts		
Resistance against shock Ambient temperature · during operating · during storage 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 Minimum actuating force / in activation direction N Protection class IP mounting position Cable gland version Design of the electrical connection Let m designation · according to DIN 40719 extendable after IEC 204-2 Actuating speed S S Actuating speed Minimum actuating force / in activation direction N Cable gland version S S S S S According to DIN 40719 extendable after IEC 204-2	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 housing / of the switch head Design of the operating mechanism Actuating speed mm/s / m/s 0.1 1 Minimum actuating force / in activation direction N 20 Protection class IP mounting position Cable gland version Design of the electrical connection Design of the electrical connection N 20 IP66/IP67 mounting position Cable gland version Cable gland version S crew-type terminals Item designation • according to DIN 40719 extendable after IEC 204-2 S S	Resistance against vibration		0.35 mm / 5g
 during operating during storage C -25 +85 during storage C -40 +90 Width of the sensor mm 50 Material of the enclosure plastic Material / of the housing / of the switch head plastic roller Actuating speed mm/s / m/s 0.1 1 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 Item designation according to DIN 40719 extendable after IEC 204-2 S S	Resistance against shock		30g / 11 ms
• during storage 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 Actuating speed Minimum actuating force / in activation direction Actuating speed Minimum actuating force / in activation direction N 20 Protection class IP Mounting position Cable gland version Actuating speed Actuating speed Minimum actuating force / in activation direction N 20 Protection class IP Series Actuating speed Actuating speed Minimum actuating force / in activation direction N 20 Protection class IP Series Actuating speed Actuating speed Minimum actuating force / in activation direction N 20 Protection class IP Series Actuating speed Actuat	Ambient temperature		
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 N 20 Protection class IP mounting position Cable gland version Design of the electrical connection N 2x (M20 x 1.5) Screw-type terminals Item designation according to DIN 40719 extendable after IEC 204-2 S	during operating	°C	-25 +85
Material plastic Material / of the housing / of the switch head plastic Design of the operating mechanism plastic roller Actuating speed mm/s / m/s 0.1 1 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 Item designation according to DIN 40719 extendable after IEC 204-2 S	during storage	°C	-40 +90
• of the enclosure plastic Material / of the housing / of the switch head plastic Design of the operating mechanism plastic roller Actuating speed mm/s / m/s 0.1 1 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 Item designation • according to DIN 40719 extendable after IEC 204-2 S	Width of the sensor	mm	50
Material / of the housing / of the switch headplasticDesign of the operating mechanismplastic rollerActuating speedmm/s / m/s0.1 1Minimum actuating force / in activation directionN20Protection class IPIP66/IP67mounting positionanyCable gland version2 x (M20 x 1.5)Design of the electrical connectionscrew-type terminalsItem designationscrew-type terminals• according to DIN 40719 extendable after IEC 204-2S	Material		
Design of the operating mechanism Actuating speed mm/s / m/s 0.1 1 Minimum actuating force / in activation direction N 20 Protection class IP IP66/IP67 mounting position Cable gland version Design of the electrical connection tem designation • according to DIN 40719 extendable after IEC 204-2 plastic roller nm/s / m/s 0.1 1 IP66/IP67 any 2 x (M20 x 1.5) screw-type terminals S	• of the enclosure		plastic
Actuating speed mm/s / m/s 0.1 1 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 Item designation • according to DIN 40719 extendable after IEC 204-2 S	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 Design of the electrical connection Item designation • according to DIN 40719 extendable after IEC 204-2 N 20 IP66/IP67 any 2 x (M20 x 1.5) screw-type terminals	Design of the operating mechanism		plastic roller
Protection class IP mounting position Cable gland version Design of the electrical connection Item designation • according to DIN 40719 extendable after IEC 204-2 IP66/IP67 any 2 x (M20 x 1.5) screw-type terminals S	Actuating speed	mm/s / m/s	0.1 1
mounting position Cable gland version 2 x (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 2 x (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		2 x (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	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 Declaration of the Compliance with the order

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:

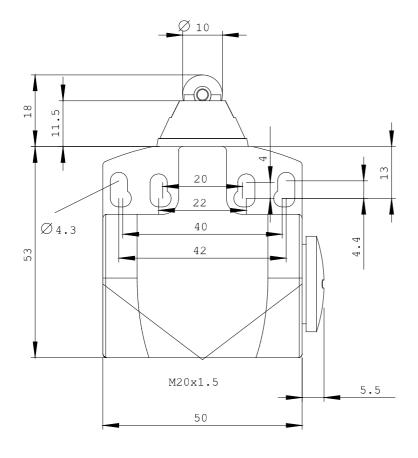
http://www.siemens.com/cax

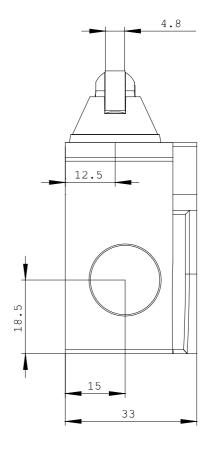
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

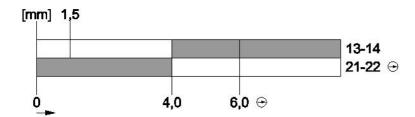
http://support.automation.siemens.com/WW/view/en/3SE5242-0HD03/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3SE5242-0HD03







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