SIEMENS

Product data sheet 3SE5212-0CC05-1AJ0



SIRIUS POSITION SWITCH PLASTIC 31MM,
ACC. TO EN 50047 INCREASED CORROSION
PROTECTION,
DEVICE CONNECTION 1X (M20X1.5) 1NO/1NC QUICK
ACTION CONTACTS ROUNDED PLUNGER,
FUNCTIONAL AT -40 DEGREES,
SHOCK AND VIBRATION TEST ACC. TO EN61373,
CATEGORY 1B

Manufacturer article number

• of the basic unit included in the scope of supply

3SE5212-0CC05-1AJ0

General technical details:				
product designation		standard position switch		
Product feature		expanded temperature range, e.g. railway application		
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		
• at 230 V / rated value	Α	0.27		

A			
• of the slow DIAZED fuse link • of the quick DIAZED fuse link • operating cycles as operating time • with contactor SRH11, SRT1018, SRT1017, SRT1024, SRT1025, SRT1026, SRT1026 fypical • at AC-15 / at 230 V / typical • at AC-15 / at 230 V / typical • link contactor 3RH11, SRT1016, SRT1017, SRT1024, SRT1025, SRT1025, SRT1026 • or all AC-15 / at 230 V / typical Design of the contact element Number of NC contacts • for auxiliary applications / according to DIN EN 61373 Resistance against vibration • for railway applications / according to DIN EN 61373 Resistance against vibration • for railway applications / according to DIN EN 61373 Ambient temperature • during operating • for C	• at 400 V / rated value	Α	0.1
• of the Quick DIAZED fuse link • of the C characteristic circuit breaker • of the C characteristic circuit breaker • with contactor and porting cycles as operating time • typical • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026, 1/ppical • at AC-15 / at 23 0V / typical • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1006 / typical • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1006 / typical • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1006 / sample contact selement • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1006 • Possign of the contact element • with contactor and selement • with contactor and selement • with contact selement • voir auxiliary contacts • for	Continuous current		
***Of the C characteristic circuit breaker** **Mechanical operating cycles as operating time ***pipical** **Pipical** **Pipical** **Pipical** **Pipical** ***Pipical** ***Pipica	of the slow DIAZED fuse link	Α	6
Mechanical operating cycles as operating time	of the quick DIAZED fuse link	Α	10
Sypical Sypical Sypical Section of Peter triangle of the symbol on tactor SRH11, SRT1016, SRT1017, SRT1024, SRT1024, SRT1026 / Sypical 10,000,000 100,000	of the C characteristic circuit breaker	Α	2
Electrical operating cycles as operating time 10,000,000 with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical 10,000,000 Electrical operating cycles in one hour 100,000 with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026 6,000 Repeat accuracy mm 0.05 Design of the contact element snap-action contacts Number of NC contacts 1 1 for auxiliary contacts 1 1 Number of NO contacts 1 1 for auxiliary contacts 1 1 Resistance against vibration 0.35 mm / 5g Category 1, Class B Resistance against shock 0.35 mm / 5g Category 1, Class B * for rallway applications / according to DIN EN 61373 Category 1, Class B Ambient temperature **C -40 +85 * during operating **C -50 +85 * Width of the sensor *	Mechanical operating cycles as operating time		
with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1026, 3RT1026 / typical it at AC-15 / tay 230 V / typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026, 3RT1026 Repeat accuracy mm 0.05 Respeat accuracy mm 0.05 Respeat accuracy mm 0.05 Respeat accuracy in a with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026, 3RT1026 Respeat accuracy in mm 0.05 Respeat accuracy in a with contacts in a with switching function Number of NC contacts in a williary co	• typical		15,000,000
SRT1026 / typical et 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 Design of the contact element Number of NC contacts for auxiliary contacts 1 Design of the switching function Number of NO contacts for auxiliary contacts for auxiliary contacts 1 Resistance against vibration for alivary applications / according to DIN EN 61373 Resistance against vibration for railway applications / according to DIN EN 61373 Resistance against shock for railway applications / according to DIN EN 61373 Resistance against shock for railway applications / according to DIN EN 61373 Resistance against shock for railway applications / according to DIN EN 61373 Resistance against shock for railway applications / according to DIN EN 61373 Resistance against shock for railway applications / according to DIN EN 61373 Resistance against shock for railway applications / according to DIN EN 61373 Resistance against shock for railway applications / according to DIN EN 61373 Resistance against shock for railway applications / according to DIN EN 61373 Resistance against shock for railway applications / according to DIN EN 61373 Resistance against shock for railway applications / according to DIN EN 61373 Resistance against shock for railway applications / according to DIN EN 61373 Resistance against shock for railway applications / according to DIN EN 61373 Resistance against shock for railway applications / according to DIN EN 61373 Resistance against shock for adailway applications / according to DIN EN 61373 Resistance against shock for adailway applications / according to DIN EN 61373 Resistance against shock for adailway applications / according to DIN EN 61373 Resistance against shock for adailway applications / according to DIN EN 61373 Resistance against shock for adailway applications for adailway applicati	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 snap-action contacts Number of NC contacts 1 - for auxiliary contacts 1 Possign of the switching function positive opening Number of NC contacts 1 - for auxiliary contacts 1 Resistance against vibration 0.35 mm / 5g - for railway applications / according to DIN EN 61373 Category 1, Class B Resistance against shock 30g / 11 ms - for railway applications / according to DIN EN 61373 Category 1, Class B Ambient temperature 40 +85 - during operating °C 40 +85 - during storage °C 40 +86 Violid to fit be sensor mm 5 50047 Material of the enclosure metal Material / of the housing / of the switch head plastic Design of the operating mechanism teffon plunger Actuating speed mm/s / m/s 0.1 1.5 <td></td> <td></td> <td>10,000,000</td>			10,000,000
*with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 Repeat accuracy Design of the contact element Number of NC contacts *for auxiliary applications / according to DIN EN 61373 *Resistance against vibration *for railway applications / according to DIN EN 61373 *Ambient temperature *during operating *during storage *C	• at AC-15 / at 230 V / typical		100,000
Repeat accuracy mm 0.05 Design of the contact element snap-action contacts Number of NC contacts 1 • for auxiliary contacts 1 Number of NO contacts 5 1 • for auxiliary contacts 1 1 Resistance against vibration 1 2 2 3 • for railway applications / according to DIN EN 61373 1 3 3 3 1	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 1 Number of NO contacts contaction • for auxiliary contacts 1 Resistance against vibration 0.35 mm / 5g • for railway applications / according to DIN EN 61373 Category 1, Class B Resistance against shock 30g / 11 ms • for railway applications / according to DIN EN 61373 Category 1, Class B Ambient temperature C • during operating °C -40 +85 • during storage °C -40 +90 Product specification EN 50047 • for dimensions mm 31 Material enterelation metal • of the enclosure metal metal Material / of the housing / of the switch head plastic Design of the operating mechanism teflon plunger Actuating speed mm/s / m/s 01 1.5 Minimum actuating force / in activation direction N 20 Protection class IP ple6/IP67 mounting position any	Design of the contact element		snap-action contacts
Design of the switching function positive opening Number of NO contacts for auxiliary contacts 1 Resistance against vibration for railway applications / according to DIN EN 61373 Category 1, Class B Resistance against shock for railway applications / according to DIN EN 61373 Category 1, Class B Ambient temperature during operating during storage Category 1, Class B Product specification for dimensions EN 50047 Width of the sensor mm Material metal Material / of the housing / of the switch head plastic Design of the operating mechanism tellon plunger Actuating speed mm/s / m/s 0.1 1.5 Minimum actuating force / in activation direction N 20 Protection class IP IP66/IP67 mounting position	Number of NC contacts		
Number of NO contacts • for auxiliary contacts • for auxiliary contacts • for railway applications / according to DIN EN 61373 Resistance against vibration • for railway applications / according to DIN EN 61373 Resistance against shock • for railway applications / according to DIN EN 61373 Ambient temperature • during operating • during storage Product specification • for dimensions Resistance against shock • for railway applications / according to DIN EN 61373 Category 1, Class B Adviser temperature • 40 +85 • 40 +85 • 40 +85 • 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 Design of the operating mechanism teflon plunger Actuating speed mm/s / m/s 0.1 1.5 Minimum actuating force / in activation direction N 20 Protection class IP mounting position	• for auxiliary contacts		1
• for auxiliary contacts Resistance against vibration • for railway applications / according to DIN EN 61373 Resistance against shock • for railway applications / according to DIN EN 61373 Ambient temperature • during operating • during storage • during storage • c -40 +85 • during storage Product specification • for dimensions 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 1 0.35 mm / 5g Category 1, Class B 30g / 11 ms Category 1, Class B -40 +85 -40 +85 -40 +85 -40 +90 -	Design of the switching function		positive opening
Resistance against vibration • for railway applications / according to DIN EN 61373 Resistance against shock • for railway applications / according to DIN EN 61373 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 Category 1, Class B 30g / 11 ms Category 1, Class B Category 1, Clas B Category 1, Class B Category 1, Class B Category 1, Class	Number of NO contacts		
* for railway applications / according to DIN EN 61373 Resistance against shock * for railway applications / according to DIN EN 61373 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 mm/s / m/s Minimum actuating force / in activation direction mounting position Category 1, Class B 30g / 11 ms Category 1, Class B 60g / 10 ms Cate	for auxiliary contacts		1
Resistance against shock • for railway applications / according to DIN EN 61373 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 Actuating spesid Material / of the foreign activation direction Protection class IP mounting position Actuating speed Actuating speed Actuating speed Material / of the foreign activation direction Actuating speed Material / of the foreign activation direction Actuating speed Actuating speed Material / of the foreign activation direction Actuating speed Material / of the operating mechanism Material /	Resistance against vibration		0.35 mm / 5g
* for railway applications / according to DIN EN 61373 Ambient temperature * during operating * during storage * C	• for railway applications / according to DIN EN 61373		Category 1, Class B
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 **C	Resistance against shock		30g / 11 ms
 during operating during storage °C -40 +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 teflon plunger Actuating speed mm/s / m/s 0.1 1.5 Minimum actuating force / in activation direction N 20 Protection class IP IP66/IP67 mounting position any 	• for railway applications / according to DIN EN 61373		Category 1, Class B
• 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 mechanismteflon plungerActuating speedmm/s / m/s0.1 1.5Minimum actuating force / in activation directionN20Protection class IPIP66/IP67mounting positionany	Ambient temperature		
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 EN 50047 mm 31 EN 50047 metal plastic teflon plunger teflon plunger Mm/s / m/s 0.1 1.5 IP66/IP67 any	during operating	°C	-40 +85
For dimensions	during storage	°C	-40 +90
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 teflon plunger Actuating speed mm/s / m/s 0.1 1.5 Minimum actuating force / in activation direction N 20 Protection class IP IP66/IP67 mounting position any	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 metal plastic teflon plunger teflon plunger N 20 IP66/IP67	• for dimensions		EN 50047
• 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 metal plastic teflon plunger mm/s / m/s 0.1 1.5 IP66/IP67 any	Width of the sensor	mm	31
Material / of the housing / of the switch head Design of the operating mechanism Actuating speed mm/s / m/s 0.1 1.5 Minimum actuating force / in activation direction N 20 Protection class IP mounting position plastic teflon plunger nm/s / m/s 0.1 1.5 IP66/IP67	Material		
Design of the operating mechanism Actuating speed mm/s / m/s 0.1 1.5 Minimum actuating force / in activation direction N 20 Protection class IP mounting position IP66/IP67 any	• of the enclosure		metal
Actuating speed mm/s / m/s 0.1 1.5 Minimum actuating force / in activation direction N 20 Protection class IP IP66/IP67 mounting position any	Material / of the housing / of the switch head		plastic
Minimum actuating force / in activation direction Protection class IP mounting position N 20 IP66/IP67 any	Design of the operating mechanism		teflon plunger
Protection class IP IP66/IP67 mounting position any	Actuating speed	mm/s / m/s	0.1 1.5
mounting position any	Minimum actuating force / in activation direction	N	20
	Protection class IP		IP66/IP67
Cable gland version 1x (M20 x 1.5)	mounting position		any
	Cable gland version		1x (M20 x 1.5)

Design of the electrical connection		screw-type terminals
Fire load	kJ	690
Item designation		
 according to DIN 40719 extendable after IEC 204-2 		S
• according to DIN EN 61346-2		В

Certificates/approvals:

General Product Approval

Declaration of Conformity

other







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:

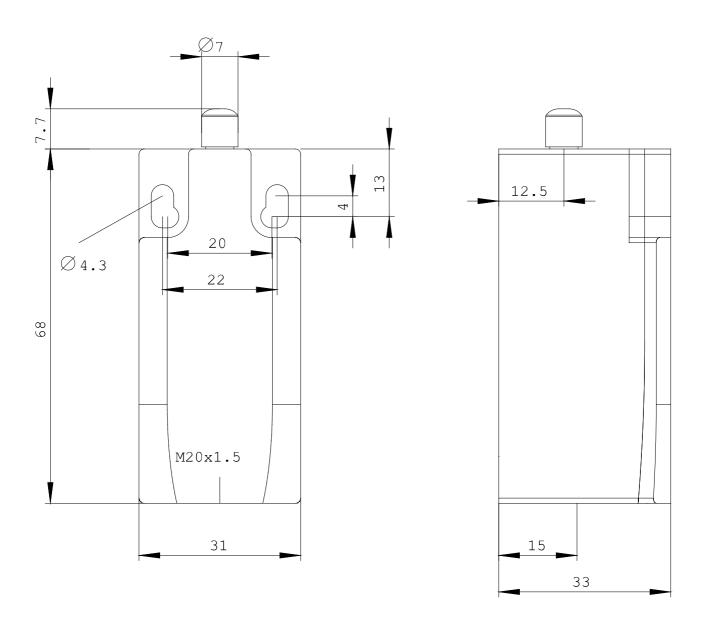
http://www.siemens.com/cax

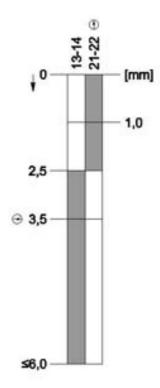
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3SE5212-0CC05-1AJ0/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3SE5212-0CC05-1AJ0





last change: Feb 18, 2013