SIEMENS

Product data sheet 3SE5112-0CH62-1AJ0



SIRIUS POSITION SWITCH,
METAL ENCLOSURE 40MM,
ACCORDING TO EN50041 DEVICE CONNECTION 1X
(M20X1.5) 1NO/1NC SNAP-ACTION CONTACTS TWIST
ACTUATOR RIGHT/LEFT ADJUSTABLE,
WITH LENGTH- ADJUST.HIGH-GR.ST.LEVER 100MM
LONG AND WITH CLOSING SHAPE (GRID HOLE),
AND PLASTIC ROLLER 19MM,
FUNCTIONAL AT -40 DEGREES,
SHOCK-AND VIBRATION TESTS ACC. TO EN61373,
CATEGORY 1B

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

3SE5112-0CA00-1AJ0

3SE5000-0AH00-1AJ0

3SE5000-0AA62-1AJ0

General technical data:				
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	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 230 V / rated value - at 400 V / rated value - at 400 V / rated value Continuous current - of the dow DIAZED fuse link - of the quick DIAZED fuse link - of the quick DIAZED fuse link - 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 / Sprical - at AC-176 x 1230 V / typical Electrical operating cycles in one hour - with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / Sprical - with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 - strice of the contact element - with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 - for suciliary contacts - for railway applications / according to DIN EN 61373 - for railway applications / according to DIN EN 61373 - for railway applications / according to DIN EN 61373 - for railway applications / according to DIN EN 61373 - for railway applications / according to DIN EN 61373 - for suciliary contacts - for auditing operating - during operating - during operating - for dimensions -	• at 125 V / rated value	Α	0.55
Continuous current of the slow DIAZED fuse link of the quick DIAZED fuse link of the Quick DIAZED fuse link of the Quick DIAZED fuse link of the C characteristic circuit breaker Mechanical operating cycles as operating time viyical fis.000,000 Electrical operating cycles as operating time viwin contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical of al. AC-15 / at 230 V / typical electrical operating cycles in one hour viwin contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026 / sylical electrical operating cycles in one hour viwin contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026 / sylical electrical operating cycles in one hour viwin contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026 / sylical electrical operating cycles in one hour viwin contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026, 3RT102	• at 230 V / rated value	Α	0.27
• of the slow DIAZED fuse link • of the quick DIAZED fuse link • of the Quick DIAZED fuse link • 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 SRH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / Sypical • al AC-15 A 12 20 V / Vypical Electrical operating cycles in one hour • with contactor SRH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / SRT1028 / SRT1028 Repeat accuracy Imm O.05 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 optications / according to DIN EN 61373 Resistance against shock • for railway applications / according to DIN EN 61373 Ambient temperature • during operating • during storage • during operating • of the enclosure Width of the sensor Imm Material • of the enclosure Material / of the enclosure / of the switch head Design of the operating mechanism Actuating speed ### A 1 15,000,000 15,000,000 10,000,000 10,000,000 10,000,00	• 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 *typicial To product specification **** **Typical	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, 3RT1024, 3RT1024, 3RT1025, 3RT1026 / typical • at AC-15 / at 230 V / 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, 3RT1026 Repeat accuracy mm 0.05 Repeat accuracy mm 0.05 Design of the contact element Number of NC contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts 1 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 • "C 40 +85 • during storage Product specification • for dimensions mm 40 Material • of the enclosure Material • of the enclosure / of the switch head Design of the operating mechanism Actuating speed mm/s / m/s 0.1 1.5	• 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
15,000,000	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, 3RT1026 (5,000) Repeat accuracy mm 0.05 Repeat accuracy mm 0.05 Repeat accuracy mm 0.05 Repeat accuracy mm 0.05 In many action contacts • for auxiliary 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 Width of the sensor Material • of the enclosure Material • of the operating mechanism Actuating speed mm/s / m/s mm/s / m/s currently mm and 0.11.5	Mechanical operating cycles as operating time		
with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical it at AC-15 / at 230 V / typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 Repeat accuracy mm	• typical		15,000,000
aRT1026 / typical at AC-15 / at 230 / 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 applications / according to DIN EN 61373 Category 1, Class B Resistance against vibration for railway applications / according to DIN EN 61373 Category 1, Class B Ambient temperature during operating current during operating current during storage Product specification for dimensions EN 50041 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 of 11.5	Electrical operating cycles as operating time		
Electrical operating cycles in one hour • with contactor 9RH11, 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 contacts • for auxiliary contacts • for auxiliary 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 operating mechanism Actuating speed mm/s / m/s Actuating speed mm/s / m/s 0.05 mm 0.05 6,000			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 • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary 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 Ambient temperature • during operating • during storage Product specification • for dimensions Width of the sensor mm 40 Material • of the enclosure Material / of the enclosure / of the switch head Design of the operating mechanism Actuating speed mm/s / m/s 0.1 1.5	• at AC-15 / at 230 V / typical		100,000
Repeat accuracy mm 0.05 Design of the contact element Number of NC contacts • 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 Resistance against shock • for railway applications / according to DIN EN 61373 Ambient temperature • during operating • °C • 40 +85 • during storage Product specification • for dimensions Width of the sensor mm 40 Material • of the enclosure Material / of the enclosure / of the switch head Design of the operating mechanism Actuating speed mm/s / m/s 0.1 1.5	Electrical operating cycles in one hour		
Design of the contact element Number of NC 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 operating • during storage Product specification • for dimensions Width of the sensor mm 40 Material • of the enclosure / of the switch head Design of the operating mechanism Actuating speed mm/s / m/s 0.11.5			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 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 * C	Design of the contact element		snap-action contacts
Design of the switching function positive opening Number of NO contacts 1 * for auxiliary contacts 0.35 mm / 5g Resistance against vibration Category 1, Class B * for railway applications / according to DIN EN 61373 30g / 11 ms Category 1, Class B Ambient temperature Category 1, Class B * during operating °C * during storage °C * Froduct specification EN 50041 Width of the sensor mm Material metal * of the enclosure metal Material / of the enclosure / of the switch head metal Design of the operating mechanism stanless steel lever, adjustable length with closing shape, plastic roller 19 mm Actuating speed mm/s / m/s 0.1 1.5	Number of NC contacts		
Number of NO contacts • for auxiliary contacts 1 Resistance against vibration • for railway applications / according to DIN EN 61373 Resistance against shock • for railway applications / according to DIN EN 61373 Category 1, Class B Ambient temperature • during operating • during storage • during storage Product specification • for dimensions EN 50041 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 0.1 1.5	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 Product specification • for dimensions Width of the sensor Material • of the enclosure Material / of the enclosure / of the switch head Design of the operating mechanism 1 0.35 mm / 5g Category 1, Class B EN 50041 For during storage Product specification • for dimensions EN 50041 Material • of the enclosure / of the switch head metal Material / of the enclosure / of the switch head Design of the operating mechanism mm/s / m/s O.1 1.5	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 enclosure / of the switch head Design of the operating mechanism Actuating speed 0.35 mm / 5g Category 1, Class B Scategory 1, Class B EN 50041 **Or -40 +85 • during storage °C -40 +90 **EN 50041 **Or dimensions EN 50041 **Material / of the enclosure / of the switch head metal **Design of the operating mechanism **Stainless steel lever, adjustable length with closing shape, plastic roller 19 mm **Actuating speed	Number of NO contacts		
Category 1, Class B 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 enclosure / of the switch head Design of the operating mechanism Category 1, Class B Category 1, Class	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 enclosure / of the switch head Design of the operating mechanism Actuating speed 30g / 11 ms Category 1, Class B Category 1, Class	Resistance against vibration		0.35 mm / 5g
• for railway applications / according to DIN EN 61373 Ambient temperature • during operating • during storage • 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 EN 50041 Width of the sensor mm 40 Material • of the enclosure Material / of the enclosure / of the switch head Design of the operating mechanism Actuating speed mm/s / m/s 0.1 1.5	Resistance against shock		30g / 11 ms
 during operating during storage C -40 +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 enclosure / of the switch head Design of the operating mechanism stainless steel lever, adjustable length with closing shape, plastic roller 19 mm Actuating speed mm/s / m/s 0.1 1.5 	for railway applications / according to DIN EN 61373		Category 1, Class B
 during storage C -40 +90 Product specification for dimensions EN 50041 Width of the sensor mm 40 Material of the enclosure Material / of the enclosure / of the switch head Design of the operating mechanism stainless steel lever, adjustable length with closing shape, plastic roller 19 mm Actuating speed mm/s / m/s 0.1 1.5	Ambient temperature		
Product specification • for dimensions EN 50041 Width of the sensor mm 40 Material • of the enclosure Material / of the enclosure / of the switch head Design of the operating mechanism Actuating speed mm/s / m/s 0.1 1.5	during operating	°C	-40 +85
• for dimensions EN 50041 Width of the sensor mm 40 Material • of the enclosure metal Material / of the enclosure / of the switch head Design of the operating mechanism stainless steel lever, adjustable length with closing shape, plastic roller 19 mm Actuating speed mm/s / m/s 0.1 1.5	during storage	°C	-40 + 90
Width of the sensor mm 40 Material • of the enclosure metal Material / of the enclosure / of the switch head metal Design of the operating mechanism stainless steel lever, adjustable length with closing shape, plastic roller 19 mm Actuating speed mm/s / m/s 0.1 1.5	Product specification		
Material • of the enclosure metal Material / of the enclosure / of the switch head metal Design of the operating mechanism stainless steel lever, adjustable length with closing shape, plastic roller 19 mm Actuating speed mm/s / m/s 0.1 1.5	• for dimensions		EN 50041
of the enclosure Material / of the enclosure / of the switch head Design of the operating mechanism stainless steel lever, adjustable length with closing shape, plastic roller 19 mm Actuating speed metal stainless steel lever, adjustable length with closing shape, plastic roller 19 mm	Width of the sensor	mm	40
Material / of the enclosure / of the switch head Design of the operating mechanism stainless steel lever, adjustable length with closing shape, plastic roller 19 mm Actuating speed mm/s / m/s 0.1 1.5	Material		
Design of the operating mechanism stainless steel lever, adjustable length with closing shape, plastic roller 19 mm Actuating speed mm/s / m/s 0.1 1.5	• of the enclosure		metal
Actuating speed shape, plastic roller 19 mm mm/s / m/s 0.1 1.5	Material / of the enclosure / of the switch head		metal
	Design of the operating mechanism		
Minimum actuating force / in activation direction N-m 0.25	Actuating speed	mm/s / m/s	0.1 1.5
	Minimum actuating force / in activation direction	N⋅m	0.25

Protection class IP		IP66/IP67
mounting position		any
Cable gland version		1x (M20 x 1.5)
Design of the electrical connection		screw-type terminals
Fire load	kJ	650
Reference code		
 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

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

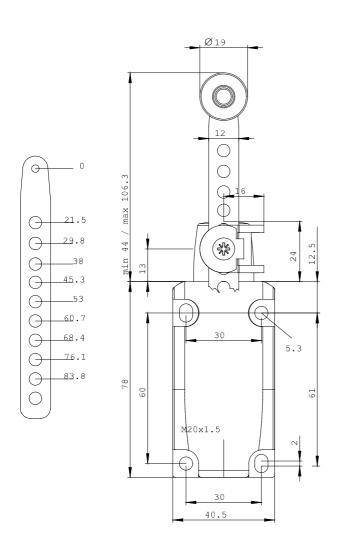
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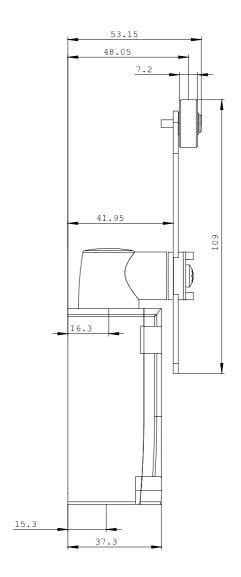
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

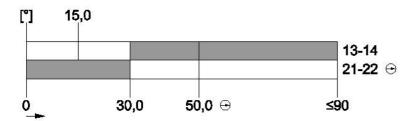
http://support.automation.siemens.com/WW/view/en/3SE5112-0CH62-1AJ0/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3SE5112-0CH62-1AJ0







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