## 3SE5212-0PC05-1CA0

## **Data sheet**



Position switch with increased corrosion protection Metal enclosure according to EN 50047, 31 mm Device connection 1 x (M20 x 1.5) 2 NO/1 NC slow-action contacts Teflon plunger

product brand name	SIRIUS
product designation	Mechanical position switches
product type designation	3SE5
manufacturer's article number	
of the supplied switching contacts	3SE5000-0PA00
of the supplied empty enclosure with cover	3SE5212-0AC05-1CA0
suitability for use safety switch	Yes
General technical data	
product function positive opening	Yes
insulation voltage rated value	250 V
degree of pollution	class 3
surge voltage resistance rated value	4 kV
protection class IP	IP66/IP67
shock resistance	
• according to IEC 60068-2-27	30g / 11 ms
vibration resistance	
• according to IEC 60068-2-6	0.35 mm/5g
mechanical service life (operating cycles) typical	15 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
thermal current	10 A
material of the enclosure of the switch head	metal
reference code according to IEC 81346-2	В
continuous current of the C characteristic MCB	1 A; for a short-circuit current smaller than 400 A
continuous current of the quick DIAZED fuse link	10 A; for a short-circuit current smaller than 400 A
continuous current of the DIAZED fuse link gG	6 A
active principle	mechanical
repeat accuracy	0.05 mm
Substance Prohibitance (Date)	07/01/2006
SVHC substance name	Imidazolidin-2-thion - 96-45-7
minimum actuating force in directions of actuation	20 N
length of the sensor	75.7 mm
width of the sensor	31 mm
Ambient conditions	
ambient temperature	
during operation	-25 +85 °C
during storage	-40 +90 °C
explosion protection category for dust	none
design of the switching contact	mechanical
operating frequency rated value	50 60 Hz

number of NO contacts for auxilliary contacts         2           operational current at AC-15         6 A           • at 24 V rated value         6 A           • at 240 V rated value         6 A           • at 240 V rated value         4 A           • at 240 V rated value         4 A           • at 250 V rated value         3 A           • at 125 V rated value         0.55 A           • at 250 V rated value         0.27 A           • at 400 V rated value         0.12 A           • at 400 V rated value         0.27 A           • at 400 V rated value         0.27 A           • at 400 V rated value         0.28 A           • ocating of the housing         block, narrow           material of the enclosure         cathodic dip coating           design of the housing according to standard         Yes           Drive Head         Total According to the actuating element         Rounded plunger, plastic plunger           standard-compilant actuator head         EN 50047, design B           shape of the switch head         rounded           design of the switching contacts safety-related         1           circuit principle         slow-action contacts           number of switching contacts safety-related         1           cable		
operational current at AC-15         6 at 24 V rated value         6 A           of 120 V rated value         6 A           of 20 V rated value         6 A           of 24 V V rated value         4 A           operational current at DC-13         - 3 24 V rated value           of 24 V rated value         0.55 A           of 25 V rated value         0.27 A           of 24 V or vated value         0.27 A           of 250 V rated value         0.12 A           of 250 V rated value         0.27 A           of 250 V rated value<	number of NC contacts for auxiliary contacts	1
		2
	•	
• at 240 V rated value         4 A           • at 400 V rated value         4 A           operational current at DC-13         - at 24 V rated value           • at 25 V rated value         0.55 A           • at 250 V rated value         0.12 A           • at 400 V rated value         0.12 A           • at 250 V rated value         0.12 A           • at 400 V rated		
• at 400 V rated value         4 A           operational current at DC-13         3 A           • at 24 V rated value         0.55 A           • at 250 V rated value         0.27 A           • at 400 V rated value         0.12 A           Enclosure	at 120 V rated value	6 A
at 24 V rated value 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3	at 240 V rated value	6 A
at 24 V rated value at 125 V rated value at 250 V rated value at 250 V rated value at 250 V rated value at 400 V rated value at 400 V rated value block, narrow  design of the housing material of the enclosure coating of the enclosure design of the housing according to standard Ves  Drive Head  design of the actuating element standard-compliant actuator head shape of the switch head conded design of the switching function circuit principle slow-action contacts number of switching contacts safety-related cable entry type  1x (M20 x 1.5)  installation/ mounting/ dimensions  mounting position screw fixing action of connections for Forminals  type of connectable conductor cross-sections solid for AWG cables solid for AWG cables stranded  communication / Protocot  design of the interface without  without  without  without  without  without  without	at 400 V rated value	4 A
e at 125 V rated value e at 250 V rated value cat 400 V rated value e at 400 V rated value e at 400 V rated value e at 400 V rated value  Discription  design of the housing material of the enclosure design of the actuating element design of the actuating element Rounded plunger, plastic plunger standard-compliant actuator head EN 50047, design B shape of the switch head rounded design of the switch head sign of the switching function positive opening circuit principle slow-action contacts number of switching contacts safety-related 1 cable entry type tx (M20 x 1.5) Installation/ mounting/ dimonsions  rounding position fastening method screw fixing  Connections/ Terminals  type of connectable conductor cross-sections e solid e finely stranded with core end processing for AWG cables solid for AWG cables stranded design of the interface for safety-related communication  Communication/ Protocol  design of the interface for safety-related communication  Without  Without	operational current at DC-13	
• at 250 V rated value • at 400 V rated value • at 400 V rated value  • at 400	at 24 V rated value	3 A
e at 400 V rated value  Discription  design of the housing material of the enclosure metal coating of the enclosure coating of the enclosure design of the housing according to standard Yes  Drive Head  design of the actuating element Rounded plunger, plastic plunger standard-compilant actuator head EN 50047, design B shape of the switch head rounded design of the switching function positive opening circuit principle slow-action contacts number of switching contacts safety-related 1 cable entry type solid plunger sate in any state in great method screw fixing  Doubt of electrical connection solid screw-type terminals  type of connectable conductor cross-sections  • solid 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)  • finely stranded with core end processing 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)  • for AWG cables stranded the interface without  Communication/ Protocol  design of the interface without	• at 125 V rated value	0.55 A
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design of the actuating element standard-compliant actuator head shape of the switch head rounded design of the switching function positive opening circuit principle slow-action contacts number of switching contacts safety-related table entry type 1x (M20 x 1.5) Installation/ mounting/ dimensions mounting position fastening method connections/ Terminals type of electrical connection solid e finely stranded with core end processing for AWG cables solid for AWG cables stranded design of the interface for safety-related communication communication/ Protocol design of the interface without	design of the housing according to standard	Yes
standard-compliant actuator head EN 50047, design B shape of the switch head rounded  design of the switching function positive opening circuit principle slow-action contacts number of switching contacts safety-related 1 cable entry type 1x (M20 x 1.5) Installation/ mounting/ dimensions  mounting position any fastening method screw fixing  Connections/ Terminals  type of electrical connection screw-type terminals  type of connectable conductor cross-sections  • solid 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) • finely stranded with core end processing 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) • for AWG cables solid 1x (20 16), 2x (20 18) • for AWG cables stranded 1x (20 16), 2x (20 18)  design of the interface without	Drive Head	
shape of the switch head  design of the switching function  circuit principle  number of switching contacts safety-related  cable entry type  1x (M20 x 1.5)  Installation/ mounting/ dimensions  mounting position  fastening method  connections/ Terminals  type of electrical connection  solid  finely stranded with core end processing  for AWG cables solid  for AWG cables stranded  design of the interface for safety-related communication  circuit principle  slow-action contacts  1x (M20 x 1.5)  1x (M20 x 1.5	design of the actuating element	Rounded plunger, plastic plunger
design of the switching function  circuit principle slow-action contacts  number of switching contacts safety-related 1  cable entry type 1x (M20 x 1.5)  Installation/ mounting/ dimensions  mounting position any fastening method connections/ Terminals  type of electrical connection screw-type terminals  type of connectable conductor cross-sections  solid 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) finely stranded with core end processing for AWG cables solid 1x (20 16), 2x (20 18) for AWG cables stranded  design of the interface  without	standard-compliant actuator head	EN 50047, design B
circuit principle  number of switching contacts safety-related  cable entry type  1x (M20 x 1.5)  Installation/ mounting/ dimensions  mounting position  any  fastening method  connections/ Terminals  type of electrical connection  screw-type terminals  type of connectable conductor cross-sections  • solid  1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)  • finely stranded with core end processing  1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)  • for AWG cables solid  1x (20 16), 2x (20 18)  • for AWG cables stranded  design of the interface for safety-related communication  without  Communication/ Protocol	shape of the switch head	rounded
number of switching contacts safety-related  cable entry type  1x (M20 x 1.5)  Installation/ mounting/ dimensions  mounting position  any fastening method  connections/ Terminals  type of electrical connection  type of connectable conductor cross-sections  • solid  1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)  • finely stranded with core end processing  • for AWG cables solid  1x (20 16), 2x (20 18)  • for AWG cables stranded  design of the interface  without	design of the switching function	positive opening
cable entry type    1x (M20 x 1.5)     Installation/ mounting/ dimensions     mounting position   any     fastening method   screw fixing     Connections/ Terminals     type of electrical connection   screw-type terminals     type of connectable conductor cross-sections     e solid   1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)     e finely stranded with core end processing   1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)     e for AWG cables solid   1x (20 16), 2x (20 18)     e for AWG cables stranded   1x (20 16), 2x (20 18)     design of the interface for safety-related communication   without	circuit principle	slow-action contacts
mounting position fastening method connections/ Terminals  type of electrical connection screw-type terminals  type of connectable conductor cross-sections solid	number of switching contacts safety-related	1
mounting position fastening method screw fixing  Connections/ Terminals  type of electrical connection screw-type terminals  type of connectable conductor cross-sections  • solid finely stranded with core end processing for AWG cables solid for AWG cables stranded for A	cable entry type	1x (M20 x 1.5)
fastening method       screw fixing         Connections/ Terminals       type of electrical connection       screw-type terminals         type of connectable conductor cross-sections       (0.5 1.5 mm²), 2x (0.5 0.75 mm²)         e finely stranded with core end processing       1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)         e for AWG cables solid       1x (20 16), 2x (20 18)         e for AWG cables stranded       1x (20 16), 2x (20 18)         design of the interface for safety-related communication       without         Communication/ Protocol       without	Installation/ mounting/ dimensions	
type of electrical connection  screw-type terminals  type of connectable conductor cross-sections  • solid  • finely stranded with core end processing  • for AWG cables solid  • for AWG cables stranded  ty (20 16), 2x (20 18)  • for AWG cables stranded  tx (20 16), 2x (20 18)  design of the interface for safety-related communication  communication/ Protocol  design of the interface  without	mounting position	any
type of electrical connection  type of connectable conductor cross-sections  • solid  • finely stranded with core end processing  • for AWG cables solid  • for AWG cables stranded  • for AWG cables tranded  • without	fastening method	screw fixing
type of connectable conductor cross-sections  • solid  1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)  • finely stranded with core end processing  1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)  • for AWG cables solid  1x (20 16), 2x (20 18)  • for AWG cables stranded  1x (20 16), 2x (20 18)  design of the interface for safety-related communication  without  Communication/ Protocol  design of the interface  without	Connections/ Terminals	
<ul> <li>solid</li> <li>1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)</li> <li>finely stranded with core end processing</li> <li>1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)</li> <li>for AWG cables solid</li> <li>for AWG cables stranded</li> <li>1x (20 16), 2x (20 18)</li> <li>design of the interface for safety-related communication</li> <li>without</li> </ul> Communication/ Protocol without	type of electrical connection	screw-type terminals
<ul> <li>finely stranded with core end processing</li> <li>for AWG cables solid</li> <li>for AWG cables stranded</li> <li>for AWG cables stranded</li> <li>for AWG cables stranded</li> <li>for AWG cables stranded</li> <li>without</li> </ul> Communication/ Protocol Without without	type of connectable conductor cross-sections	
◆ for AWG cables solid     ↑x (20 16), 2x (20 18)     ◆ for AWG cables stranded     ↑x (20 16), 2x (20 18)  design of the interface for safety-related communication  without  Communication/ Protocol  design of the interface  without	• solid	1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)
• for AWG cables stranded  1x (20 16), 2x (20 18)  design of the interface for safety-related communication  Communication/ Protocol  design of the interface  without	<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)
design of the interface for safety-related communication without  Communication/ Protocol  design of the interface without	• for AWG cables solid	1x (20 16), 2x (20 18)
Communication/ Protocol  design of the interface without	<ul> <li>for AWG cables stranded</li> </ul>	1x (20 16), 2x (20 18)
design of the interface without	design of the interface for safety-related communication	without
	Communication/ Protocol	
	design of the interface	without
	Certificates/ approvals	

General Product Approval





Confirmation



<u>KC</u>



Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 

other

Type Examination Certificate



CE EG-Konf. Type Test Certificates/Test Report

Type Test Certificates/Test Report

Confirmation

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)
<a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5212-0PC05-1CA0">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5212-0PC05-1CA0</a>

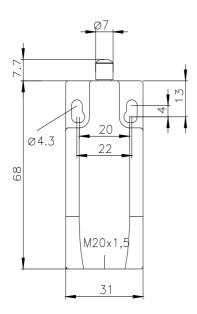
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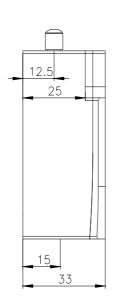
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5212-0PC05-1CA0

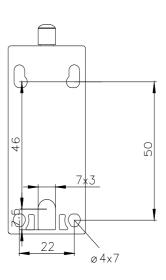
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

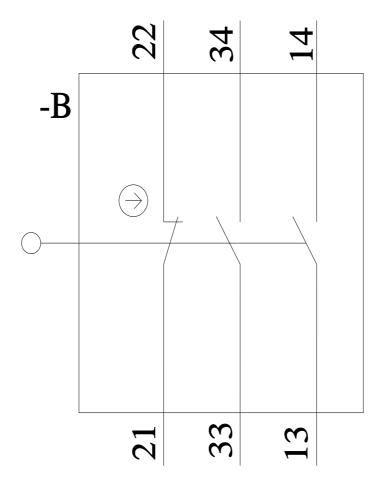
https://support.industry.siemens.com/cs/ww/en/ps/3SE5212-0PC05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SE5212-0PC05-1CA0&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SE5212-0PC05-1CA0&lang=en</a>









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