## 3SE5212-0CC05-1CA0

**Data sheet** 



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

product function positive opening  insulation voltage rated value  degree of pollution  class 3  surge voltage resistance rated value  frotection class IP  protection class IP  protection class IP  shock resistance  according to IEC 60068-2-27  30g / 11 ms  vibration resistance  according to IEC 60068-2-6  mechanical service life (operating cycles) typical  electrical endurance (operating cycles) at AC-15 at 230 V typical  thermal current  thermal current  material of the enclosure of the switch head  metal  reference code according to IEC 81346-2  B  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  continuous current of the DIAZED fuse link G  active principle  mechanical  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  SVHC substance name  minimum actuating force in directions of actuation  20 N  length of the sensor  31 mm	product brand name	SIRIUS
manufacturer's article number  of the supplied switching contacts of the supplied empty enclosure with cover suitability for use safety switch yes  Ceneral technical data  product function positive opening insulation voltage rated value degree of pollution class IP shock resistance o according to IEC 60068-2-27 suitability in IEC 60068-2-27 suitability in IEC 60068-2-27 suitability in IEC 60068-2-27 surbiration resistance o according to IEC 60068-2-27 surbiration resistance o according to IEC 60068-2-27 surbiration resistance o according to IEC 60068-2-28 surpe voltage resistance o according to IEC 60068-2-29 surbiration resistance o according to IEC 80068-2-29 surbiration resistance o according to IEC 81346-2 surbiration resistance orithinous current of the switch head metal reference code according to IEC 81346-2 surbiration resistance orithinous current of the Characteristic MCB surbiration resistance orithinous current of the DIAZED fuse link orithinous current orithinous current orithinous orit	product designation	Mechanical position switches
manufacturer's article number  of the supplied switching contacts of the supplied empty enclosure with cover suitability for use safety switch yes  Ceneral technical data  product function positive opening insulation voltage rated value degree of pollution class IP shock resistance o according to IEC 60068-2-27 suitability in IEC 60068-2-27 suitability in IEC 60068-2-27 suitability in IEC 60068-2-27 surbiration resistance o according to IEC 60068-2-27 surbiration resistance o according to IEC 60068-2-27 surbiration resistance o according to IEC 60068-2-28 surpe voltage resistance o according to IEC 60068-2-29 surbiration resistance o according to IEC 80068-2-29 surbiration resistance o according to IEC 81346-2 surbiration resistance orithinous current of the switch head metal reference code according to IEC 81346-2 surbiration resistance orithinous current of the Characteristic MCB surbiration resistance orithinous current of the DIAZED fuse link orithinous current orithinous current orithinous orit		·
• of the supplied empty enclosure with cover suitability for use safety switch  General tochnical data  product function positive opening product function positive opening product function positive opening degree of pollution degree of pollution degree of pollution degree of pollution dess 3  surge voltage resistance rated value 6 kV  protection class IP lP66/IP67  shock resistance according to IEC 60068-2-27 30g / 11 ms  vibration resistance according to IEC 60068-2-26 2.35 mm/5g mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current 10 A material of the enclosure of the switch head metal reference code according to IEC 81346-2 B continuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link gG active principle mechanical servince substance Prohibitance (Date) SVHC substance name minimum actuating force in directions of actuation length of the sensor  ability of the switching contact  ability of the switching		
suitability for use safety switch  General technical data  product function positive opening insulation voltage rated value  degree of pollution class 3 surge voltage resistance rated value protection class IP shock resistance • according to IEC 60068-2-27 yibration resistance • according to IEC 60068-2-27 yibration resistance • according to IEC 60068-2-5 mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current material of the enclosure of the switch head material of the enclosure of the switch head material of the duick DIAZED fuse link continuous current of the C characteristic MCB 1A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link G active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) MYHO Substance Prohibitance (Date) Substance Prohibitance (Date) Middle Diazed (Date) Mi	of the supplied switching contacts	3SE5000-0CA00
product function positive opening Yes Insulation voltage rated value 400 V degree of pollution class IP surge voltage resistance rated value 6 kV protection class IP IP66/IP67 shock resistance carding to IEC 60068-2-7 30g / 11 ms vibration resistance according to IEC 60068-2-6 0.35 mm/5g mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical of the enclosure of the switch head metal reference code according to IEC 81346-2 B Continuous current of the C characteristic MCB 1A; for a short-circuit current smaller than 400 A continuous current of the pulcx DIAZED fuse link gG 6 A active principle mechanical repara accuracy 0.05 mm substance Prohibitance (Date) 7070/I/2006 SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation 2 N Inmimum actuating force in directions of actuation 4 metal reference coditions are simple the sensor 31 mm Ambient conditions  ambient temperature during operation - during of the switching contact under the sw	of the supplied empty enclosure with cover	3SE5212-0AC05-1CA0
product function positive opening	suitability for use safety switch	Yes
insulation voltage rated value 400 V degree of pollution class 3 surge voltage resistance rated value 6 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 typical 10	General technical data	
degree of pollution class 3 surge voltage resistance rated value 6 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 10 A material of the enclosure of the switch head metal 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-ci	product function positive opening	Yes
surge voltage resistance rated value protection class IP shock resistance	insulation voltage rated value	400 V
protection class IP IP66/IP67  shock resistance	degree of pollution	class 3
shock resistance	surge voltage resistance rated value	6 kV
according to IEC 60068-2-27  vibration resistance according to IEC 60068-2-6  mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical  thermal current  thermal current  thermal current  thermal current  thereference code according to IEC 81346-2  continuous current of the C characteristic MCB  continuous current of the Quick DIAZED fuse link  continuous current of the DIAZED fuse link  continuous current of the DIAZED fuse link  continuous current of the DIAZED fuse link g  active principle  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  SVHC substance name  minimum actuating force in directions of actuation  in minimum actuating force in directions of actuation  ambient temperature  during operation  during storage  -25 +85 °C  eduring storage  avoil 1 m mechanical  recent according to IEC 60068-2-6  15 0.05 mm  Ambient temperature  during operation  during storage  -40 +90 °C  explosion protection category for dust  mechanical	protection class IP	IP66/IP67
vibration resistance	shock resistance	
e according to IEC 60068-2-6  mechanical service life (operating cycles) typical  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  reference code according to IEC 81346-2  B  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  continuous current of the DIAZED fuse link G  6 A  active principle  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  SVHC substance name  Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  width of the sensor  31 mm  Ambient conditions  ambient temperature  e during operation  e during storage  e-25 +85 °C  e-40 +90 °C  explosion protection category for dust  mechanical	<ul> <li>according to IEC 60068-2-27</li> </ul>	30g / 11 ms
mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current 10 A material of the enclosure of the switch head metal reference code according to IEC 81346-2 B continuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link continuous current of the DIAZED fuse link gG active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation length of the sensor 75.7 mm width of the sensor 31 mm Anabient conditions  ambient temperature	vibration resistance	
electrical endurance (operating cycles) at AC-15 at 230 V typical  thermal current  material of the enclosure of the switch head  reference code according to IEC 81346-2  B  continuous current of the C characteristic MCB  continuous current of the quick DIAZED fuse link  continuous current of the DIAZED fuse link gG  active principle  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  SYHC substance name  Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  75.7 mm  width of the sensor  Ambient conditions  ambient temperature  • during operation  • during storage  explosion protection category for dust  design of the switching contact  10 A  metal  10 A  10 A	• according to IEC 60068-2-6	0.35 mm/5g
thermal current 10 A material of the enclosure of the switch head metal reference code according to IEC 81346-2 B 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 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	mechanical service life (operating cycles) typical	15 000 000
material of the enclosure of the switch head reference code according to IEC 81346-2 B 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 length of the sensor 75.7 mm width of the sensor width of the sensor 31 mm Ambient conditions ambient temperature oduring operation of during storage explosion protection category for dust design of the switching contact mechanical		100 000
reference code according to IEC 81346-2  continuous current of the C characteristic MCB  continuous current of the Quick DIAZED fuse link  continuous current of the quick DIAZED fuse link  continuous current of the DIAZED fuse link gG  active principle  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  SVHC substance name  Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  width of the sensor  31 mm  Ambient conditions  ambient temperature  • during operation  • during storage  -40 +90 °C  explosion protection category for dust  mechanical	thermal current	10 A
continuous current of the C characteristic MCB  continuous current of the quick DIAZED fuse link  continuous current of the plick DIAZED fuse link  continuous current of the DIAZED fuse link gG  active principle  mechanical  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  SVHC substance name  limidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  width of the sensor  31 mm  Ambient conditions  ambient temperature  o during operation  -25 +85 °C  o during storage  explosion protection category for dust  mechanical  1 A; for a short-circuit current smaller than 400 A  10 A	material of the enclosure of the switch head	metal
continuous current of the quick DIAZED fuse link  continuous current of the DIAZED fuse link gG  active principle  mechanical  repeat accuracy  Substance Prohibitance (Date)  SVHC substance name  Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  vidth of the sensor  Ambient conditions  ambient temperature  o during operation  other in the substance of the quick DIAZED fuse link gG  6 A  mechanical  mechanical  10 A; for a short-circuit current smaller than 400 A  mechanical  mechanical	reference code according to IEC 81346-2	В
continuous current of the DIAZED fuse link gG  active principle  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  SYHC substance name  Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  75.7 mm  width of the sensor  width of the sensor  4 minimum actuating  width of the sensor  ambient conditions  ambient temperature  o during operation  other during storage  -40 +90 °C  explosion protection category for dust  mechanical	continuous current of the C characteristic MCB	1 A; for a short-circuit current smaller than 400 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	continuous current of the quick DIAZED fuse link	10 A; for a short-circuit current smaller than 400 A
repeat accuracy  Substance Prohibitance (Date)  SYHC substance name  Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  width of the sensor  31 mm  Ambient conditions  ambient temperature  • during operation • during storage  explosion protection category for dust  design of the switching contact  0.05 mm  07/01/2006  Imidazolidin-2-thion - 96-45-7  20 N  75.7 mm  31 mm  -25 +85 °C  -40 +90 °C  explosion protection category for dust  mechanical	continuous current of the DIAZED fuse link gG	6 A
Substance Prohibitance (Date)  SVHC substance name  Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  75.7 mm  width of the sensor  31 mm  Ambient conditions  ambient temperature  • during operation • during storage  -40 +90 °C  explosion protection category for dust  design of the switching contact  07/01/2006  1midazolidin-2-thion - 96-45-7  20 N  -5.7 mm  31 mm  -25 +85 °C  -40 +90 °C  explosion protection category for dust  none  mechanical	active principle	mechanical
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	repeat accuracy	0.05 mm
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 • during storage  -40 +90 °C  explosion protection category for dust  design of the switching contact  20 N  75.7 mm  7	Substance Prohibitance (Date)	07/01/2006
length of the sensor  width of the sensor  31 mm  Ambient conditions  ambient temperature  o during operation during storage  explosion protection category for dust  design of the switching contact  75.7 mm  75	SVHC substance name	Imidazolidin-2-thion - 96-45-7
width of the sensor  Ambient conditions  ambient temperature  • during operation • during storage  explosion protection category for dust design of the switching contact  31 mm  -25 +85 °C  -40 +90 °C  mechanical	minimum actuating force in directions of actuation	20 N
Ambient conditions  ambient temperature  • during operation • during storage  • during storage  -40 +90 °C  explosion protection category for dust  design of the switching contact  mechanical	length of the sensor	75.7 mm
ambient temperature  • during operation • during storage • during storage • 40 +90 °C  explosion protection category for dust design of the switching contact  none mechanical	width of the sensor	31 mm
<ul> <li>◆ during operation</li> <li>← during storage</li> <li>← 40 +90 °C</li> <li>explosion protection category for dust</li> <li>design of the switching contact</li> <li>mechanical</li> </ul>	Ambient conditions	
• during storage  -40 +90 °C  explosion protection category for dust  design of the switching contact  mechanical	ambient temperature	
explosion protection category for dust none design of the switching contact mechanical	<ul><li>during operation</li></ul>	-25 +85 °C
design of the switching contact mechanical	during storage	-40 +90 °C
	explosion protection category for dust	none
operating frequency rated value 50 60 Hz	design of the switching contact	mechanical
	operating frequency rated value	50 60 Hz

number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
operational current at AC-15	
at 24 V rated value	6 A
at 120 V rated value	6 A
at 240 V rated value	6 A
at 400 V rated value	4 A
operational current at DC-13	
at 24 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
Enclosure	
design of the housing	block, narrow
material of the enclosure	metal
coating of the enclosure	cathodic dip coating
design of the housing according to standard	Yes
Drive Head	
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 switching function	positive opening
circuit principle	snap-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)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)
<ul> <li>for AWG cables solid</li> </ul>	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
Certificates/ approvals	

**General Product Approval** 







Confirmation





General Product Approval

**Test Certificates** 

other



Type Test Certificates/Test Report

Type Test Certificates/Test Report

Confirmation

## Further information

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

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$ 

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

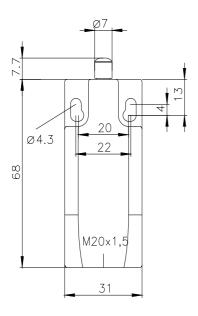
Industry Mall (Online ordering system)

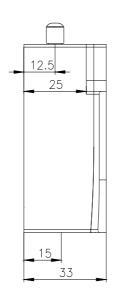
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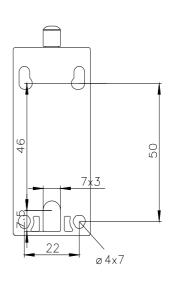
Cax online generator
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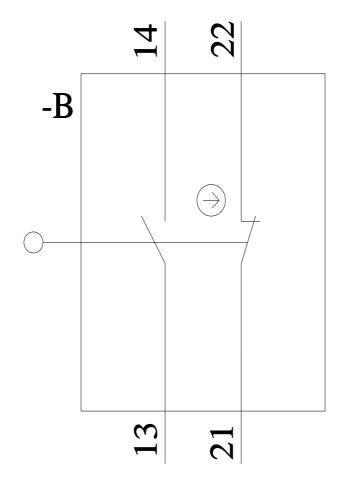
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3SE5212-0CC05-1CA0

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









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