SIEMENS

Data sheet 3SE5112-0CR01



Position switch Metal enclosure 40 mm according to EN 50041 Device connection 1x (M20 x 1.5) 1 NO/1 NC quick action contacts Spring rod actuator 142.5 mm total length with plastic plunger 50 mm

product type designation product type designation 3SE5 substance restrict number of the supplied basic switch of the supplied basic switch of the supplied which groatest substance restrict number of the supplied which groatest of the supplied wh	product brand name	SIRIUS
product type designation manufacturer's article number of the supplied actuator head for position switches of the supplied amply enclosure with cover sultability for use safety switch No Ceneral technical data Product function positive opening No Insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value for ky protection class IP Pe6/IP67 shock resistance according to IEC 60068-2-27 30g / 11 ms vibration resistance according to IEC 60068-2-6 according 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 lectrical endurance (operating cycles) at AC-15 at 230 V typical thermal current material of the enclosure of the switch head plastic 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 DIAZED fuse link gG active principle mechanical surrent of the DIAZED fuse link gG active principle mechanical surrent of the DIAZED fuse link gG active principle mechanical length of the sensor 40 mm Minimum actuating forque in directions of actuation length of the sensor 40 mm Minimum actuating torque in directions of actuation length of the sensor 40 mm Month of the sensor 40 mm Ambient conditions ambient temperature during operation during storage 40 mone	·	Mechanical position switches
manufacturer's article number of the supplied basic switch of the supplied switch head for position switches of the supplied switching contacts of the supplied empty enclosure with cover stability for use safety switch No Central tochnical data product function positive opening No insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value for kV protection class IP obs/lipe7 shock resistance according to IEC 60068-2-27 30g / 11 ms vibration resistance according to IEC 60068-2-6 0.55 mm/5g mechanical service life (percating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical material of the enclosure of the switch head plastic 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 DIAZED fuse link G continuous current of the DIAZED fuse link G continuous current of the DIAZED fuse link G SWHC substance Prohibitance (Date) Toylor/10/2006 wich in the sensor d v mm minimum actuating torque in directions of actuation length of the sensor d v mm Ambient conditions ambient temperature d uting operation d uting storage explosion protection category for dust		·
of the supplied actuator head for position switches of the supplied switching contacts of the supplied empty enclosure with cover suitability for use safety switch No General technical data product function positive opening Insulation voltage rated value degree of pollution degree of pollution degree of pollution degree of pollution desiration class IP shock resistance • according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical thermal current material of the enclosure of the switch head plastic reference code according to IEC 81346-2 Be continuous current of the C characteristic MCB 1 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link continuous current of the DIAZED fuse link of According to IEC 81346-2 subtypical continuous current of the DIAZED fuse link of According to IEC 81346-2 subtypical of the mechanical principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) Substance Prohibitance (Date) Substance Prohibitance (Date) minimum actuating torque in directions of actuation imidiazelidin-2-thion - 96-45-7 minimum actuating torque in directions of actuation aburing storage 40 mm Ambient conditions ambient temperature during operation during storage average and according to IEC 81046		
of the supplied actuator head for position switches of the supplied switching contacts of the supplied empty enclosure with cover suitability for use safety switch No General technical data product function positive opening insulation voltage rated value degree of pollution degree of pollution degree of pollution degree of pollution surge voltage resistance rated value	of the supplied basic switch	3SE5112-0CA00
of the supplied empty enclosure with cover 38E5100-0CA00 of the supplied empty enclosure with cover 38E5112-0AA00 suitability for use safety switch No Ceneral technical data product function positive opening No insulation voltage rated value 400 V degree of pollution class 3 surge voltage resistance rated value 6 kV protection class IP IP65/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 10 000 000 electrical endurance (operating cycles) at AC-15 at 230 V typical of the enclosure of the switch head plastic 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 QIAZED fuse link 0 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link 0 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link 0 A; for a short-circuit current smaller than 400 A continuous current of the switch lead imachanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 77/01/2006 SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating torque in directions of actuation 0.25 N·m length of the sensor 220.3 mm width of the sensor 40 mm Ambient conditions ambient temperature • during operation	of the supplied actuator head for position switches	
of the supplied empty enclosure with cover suitability for use safety switch Ro General technical data product function positive opening No insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value 6 kV protection class IP shock resistance • according to IEC 60068-2-7 vibration resistance cording to IEC 60068-2-6 according to IEC 60068-2-8 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 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 gG active principle mechanical repeat accuracy Substance Prohibitance (Date) SWHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating torque in directions of actuation e during storage e during storage explosion protection category for dust		3SE5000-0CA00
General technical data product function positive opening No insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value 6 kV 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 lelectrical endurance (operating cycles) typical thermal current 10 A material of the enclosure of the switch head plastic 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 name Imidazolidin-2-thion - 96-45-7 minimum actuating torque in directions of actuation length of the sensor 40 mm Ambient conditions ambient temperature • during operation • during storage explosion protection category for dust	of the supplied empty enclosure with cover	3SE5112-0AA00
product function positive opening Insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value 6 kV protection class IP IP65/IP67 shock resistance • according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical thermal current 10 A material of the enclosure of the switch head plastic reference code according to IEC 81346-2 B continuous current of the 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 gG active principle mechanical repeat accuracy Substance Prohibitance (Date) SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating torque in directions of actuation length of the sensor 40 mm Ambient conditions ambient temperature e during operation e during storage explosion protection category for dust	suitability for use safety switch	No
Insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value protection class IP protection class IP protection class IP according to IEC 60068-2-27 protection resistance according to IEC 60068-2-27 alog / 11 ms vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical delectrical endurance (operating cycles) at AC-15 at 230 V typical thermal current 10 A material of the enclosure of the switch head plastic 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 G 6 A active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 3VHC substance name limidazolidin-2-thion - 96-45-7 minimum actuating torque in directions of actuation 10 C M mm Ambient conditions ambient temperature e during operation -25 +85 °C e during storage -40 +90 °C explosion protection category for dust	General technical data	
degree of pollution surge voltage resistance rated value protection class IP shock resistance 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 10 A material of the enclosure of the switch head plastic reference code according to IEC 81346-2 continuous current of the C-tearacteristic MCB 1 A; for a short-circuit current smaller than 400 A continuous current of the 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) VIHC substance name minimum actuating torque in directions of actuation length of the sensor 40 mm Ambient conditions amblent temperature e during operation e during storage explosion protection category for dust	product function positive opening	No
surge voltage resistance rated value protection class IP shock resistance • 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 10 A material of the enclosure of the switch head plastic reference code according to IEC 81346-2 B continuous current of the C characteristic MCB continuous current of the PulAZED fuse link 10 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link for a short-circuit current smaller than 400 A 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 torque in directions of actuation 10.25 N-m width of the sensor 40 mm Ambient conditions ambient temperature e during operation -25 +85 °C e during storage 40 +90 °C explosion protection category for dust	insulation voltage rated value	400 V
protection class IP 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 ttermal current thermal current 10 A material of the enclosure of the switch head plastic 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 DIAZED fuse link gG active principle mechanical repeat accuracy 30g / 11 ms 10 000 000 100 00 100 00 100 00	protection class IP	IP65/IP67
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 10 A material of the enclosure of the switch head plastic 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 G active principle repeat accuracy 0.05 mm Substance Prohibitance (Date) SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating torque in directions of actuation length of the sensor 40 mm Ambient conditions ambient temperature • during operation • during storage explosion protection category for dust	shock resistance	
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 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 DIAZED fuse link continuous current of the DIAZED fuse link continuous current of the DIAZED fuse link gG active principle repeat accuracy Substance Prohibitance (Date) SYHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating torque in directions of actuation length of the sensor width of the sensor Ambient conditions ambient temperature o during operation -25 +85 °C o during storage explosion protection category for dust	• according to IEC 60068-2-27	30g / 11 ms
electrical endurance (operating cycles) at AC-15 at 230 V typical 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 continuous current of the DIAZED fuse link (A), for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link (A), for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link (B) continuous current smaller than 400 A continuous current of the DIAZED fuse link (B) continuous current smaller than 400 A continuous curren	vibration resistance according to IEC 60068-2-6	0.35 mm/5g
thermal current 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 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 plazed fuse link gG 6 A active principle mechanical repeat accuracy 3 O.05 mm Substance Prohibitance (Date) SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating torque in directions of actuation length of the sensor vidth of the sensor 40 mm Ambient conditions ambient temperature during operation during storage explosion protection category for dust	mechanical service life (operating cycles) typical	10 000 000
material of the enclosure of the switch head reference code according to IEC 81346-2 B continuous current of the C characteristic MCB 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 gG active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating torque in directions of actuation length of the sensor width of the sensor width of the sensor 40 mm Ambient conditions ambient temperature • during operation • during storage explosion protection category for dust		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 Substance Prohibitance (Date) SYHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating torque in directions of actuation length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature • during operation • during storage explosion protection category for dust	thermal current	10 A
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 mechanical repeat accuracy Substance Prohibitance (Date) SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating torque in directions of actuation length of the sensor width of the sensor width of the sensor 40 mm Ambient conditions ambient temperature • during operation • during storage explosion protection category for dust	material of the enclosure of the switch head	plastic
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 torque in directions of actuation length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature • during operation • during storage explosion protection category for dust 10 A; for a short-circuit current smaller than 400 A 6 A active principle mechanical mechanical 0.05 mm 0.05 mm 0.25 N·m 220.3 mm 40 mm 40 mm	reference code according to IEC 81346-2	В
continuous current of the DIAZED fuse link gG active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) O7/01/2006 SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating torque in directions of actuation length of the sensor vidth of the sensor 40 mm Ambient conditions ambient temperature o during operation -25 +85 °C -40 +90 °C explosion protection category for dust mechanical mechanical 0.05 mm 0.25 N·m 220.3 mm 40 mm	continuous current of the C characteristic MCB	1 A; for a short-circuit current smaller than 400 A
active principle repeat accuracy 0.05 mm Substance Prohibitance (Date) 07/01/2006 SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating torque in directions of actuation 0.25 N·m length of the sensor 220.3 mm width of the sensor 40 mm Ambient conditions ambient temperature • during operation • during storage explosion protection category for dust mechanical mechanical mechanical none	continuous current of the quick DIAZED fuse link	10 A; for a short-circuit current smaller than 400 A
repeat accuracy Substance Prohibitance (Date) SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating torque in directions of actuation length of the sensor 220.3 mm width of the sensor 40 mm Ambient conditions ambient temperature • during operation -25 +85 °C • during storage -40 +90 °C explosion protection category for dust	continuous current of the DIAZED fuse link gG	6 A
Substance Prohibitance (Date) SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating torque in directions of actuation length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature o during operation -25 +85 °C oduring storage explosion protection category for dust 07/01/2006 Imidazolidin-2-thion - 96-45-7 0.25 N·m 220.3 mm 40 mm -25 +85 °C -40 +90 °C	active principle	mechanical
SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating torque in directions of actuation 0.25 N·m length of the sensor 220.3 mm width of the sensor 40 mm Ambient conditions ambient temperature • during operation -25 +85 °C • during storage -40 +90 °C explosion protection category for dust none	repeat accuracy	0.05 mm
minimum actuating torque in directions of actuation length of the sensor 220.3 mm width of the sensor 40 mm Ambient conditions ambient temperature • during operation • during storage -40 +90 °C explosion protection category for dust 0.25 N·m 220.3 mm 40 mm	Substance Prohibitance (Date)	07/01/2006
length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature • during operation • during storage explosion protection category for dust 220.3 mm 40 mm -25 +85 °C -40 +90 °C	SVHC substance name	Imidazolidin-2-thion - 96-45-7
width of the sensor Ambient conditions ambient temperature • during operation • during storage • during storage explosion protection category for dust • during	minimum actuating torque in directions of actuation	0.25 N⋅m
Ambient conditions ambient temperature • during operation • during storage • during storage -40 +90 °C explosion protection category for dust	length of the sensor	220.3 mm
ambient temperature ● during operation -25 +85 °C ● during storage -40 +90 °C explosion protection category for dust none	width of the sensor	40 mm
 during operation during storage explosion protection category for dust -25 +85 °C -40 +90 °C none	Ambient conditions	
● during storage -40 +90 °C explosion protection category for dust none	ambient temperature	
explosion protection category for dust none	 during operation 	-25 +85 °C
	during storage	-40 +90 °C
design of the switching contact mechanical	explosion protection category for dust	none
	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 125 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	Spring rod, total length = 142.5 mm (spring 50 mm + plastic plunger 50 mm)
circuit principle	snap-action contacts
number of switching contacts safety-related	0
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 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

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)

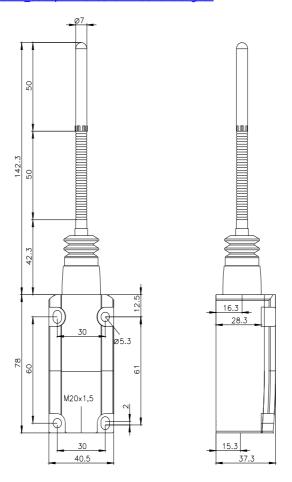
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5112-0CR01

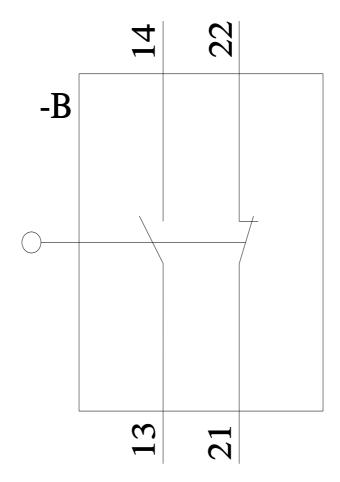
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5112-0CR01

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3SE5112-0CR01

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5112-0CR01&lang=en





last modified: 9/5/2023 🖸