SIEMENS

Data sheet

3SE5242-0BC05-1CA0



position switch with increased corrosion protection plastic enclosure 50 mm, device connection 2 x (M20 x 1.5) 1 NO/1 NC slow-action contacts, rounded plunger

product designation solution year article number of the supplied switching contacts of the supplied switching contacts of the supplied mpty enclosure with cover suitability for use safety switch yes yes suitability for use safety switch yes	product brand name	SIRIUS
manufacturer's article number of the supplied switching contacts suitability for use safety switch Yes General technical data product function positive opening Insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value 6 kV protection class IP IP66/IP67 shock resistance according to IEC 60068-2-7 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 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 QIAZED fuse link Continuous current of the QIAZED fuse link Continuous current of the DIAZED fuse link G 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 width of the sensor 50 mm Ambient conditions	product designation	Mechanical position switches
of the supplied switching contacts of the supplied empty enclosure with cover suitability for use safety switch Pes General technical data product function positive opening Yes Insulation voltage rated value degree of pollution surge voltage resistance rated value degree of pollution surge voltage resistance rated value of kV protection class IP shock resistance according to IEC 60068-2-27 30g / 11 ms Vibration resistance according to IEC 60068-2-6 o.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 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 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 width of the sensor Ves SOURCE ACCOS-ICAD Yes Yes Yes Yes Yes Yes 100 V OV 100 V	product type designation	3SE5
of the supplied empty enclosure with cover suitability for use safety switch Yes General technical data product function positive opening insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value	manufacturer's article number	
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 6 kV protection class IP shock resistance a according to IEC 60068-2-27 30g / 11 ms vibration resistance a cacording 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 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 0 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link gG 6 A continuous current of the DIAZED fuse link gG 6 A continuous current of the DIAZED fuse link gG 8 How a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link gG 6 A continuous current of the DIAZED fuse link gG 6 A continuous current of the DIAZED fuse link gG 6 A continuous current of the DIAZED fuse link gG 6 A continuous current of the DIAZED fuse link gG 6 A continuous current of the DIAZED fuse link gG 6 A continuous current of the DIAZED fuse link gG 6 A continuous current of the DIAZED fuse link gG 6 A continuous current of the DIAZED fuse link gG 7/01/2006 SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation 10 N 10 minimum actuating force in directions of actuation 10 minimum actuating force in dire	 of the supplied switching contacts 	3SE5000-0BA00
product function positive opening 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	 of the supplied empty enclosure with cover 	3SE5242-0AC05-1CA0
product function positive opening 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 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 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) 07/01/2006 SVHC substance name Imidazoildin-2-thion - 96-45-7 minimum actuating force in directions of actuation 20 N length of the sensor 60.7 mm width of the sensor 50 mm Ambient conditions	suitability for use safety switch	Yes
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 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 characteristic MCB 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 Ambient conditions	General technical data	
degree of pollution class 3 surge voltage resistance rated value 6 kV protection class IP IP66/IP67 shock resistance	product function positive opening	Yes
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 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 gG active principle repeat accuracy Substance Prohibitance (Date) SVHC substance name minimum actuating force in directions of actuation length of the sensor width of the sensor Ambient conditions	insulation voltage rated value	400 V
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 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 pliAZED fuse link continuous current of the DIAZED fuse link for active principle mechanical repeat accuracy Substance Prohibitance (Date) SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation width of the sensor in Magnetic According to IEC 80068-2-2 30g / 11 ms 30g / 12 ms 40g / 12 ms 400 000 100 000 1	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 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 decitive principle repeat accuracy Substance Prohibitance (Date) SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation width of the sensor Ambient conditions	protection class IP	IP66/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 reference code according to IEC 81346-2 continuous current of the C characteristic MCB 1 A; for a short-circuit current smaller than 400 A continuous current of the puick 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 force in directions of actuation length of the sensor width of the sensor 60.7 mm width of the sensor Ambient conditions	shock 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 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 3 Unidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation length of the sensor width of the sensor 60.7 mm Ambient conditions	 according to IEC 60068-2-27 	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 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 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 20 N length of the sensor 60.7 mm width of the sensor 50 mm Ambient conditions	vibration resistance	
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 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) SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation 20 N length of the sensor 60.7 mm width of the sensor 50 mm Ambient conditions	according to IEC 60068-2-6	0.35 mm/5g
thermal current 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 gG 6 A 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 20 N length of the sensor 60.7 mm width of the sensor 50 mm Ambient conditions	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 20 N length of the sensor 60.7 mm width of the sensor 50 mm Ambient conditions	· · · · · · · · · · · · · · · · · · ·	100 000
reference code according to IEC 81346-2 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 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 width of the sensor Mabient conditions	thermal current	10 A
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 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 width of the sensor Mabient conditions	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 force in directions of actuation length of the sensor width of the sensor Mabient conditions	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) 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 60.7 mm width of the sensor 50 mm Ambient conditions	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 60.7 mm width of the sensor 50 mm Ambient conditions	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 force in directions of actuation length of the sensor width of the sensor So mm Ambient conditions	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 width of the sensor 50 mm Ambient conditions	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 60.7 mm width of the sensor 50 mm Ambient conditions	repeat accuracy	0.05 mm
minimum actuating force in directions of actuation length of the sensor width of the sensor 50 mm Ambient conditions	Substance Prohibitance (Date)	07/01/2006
length of the sensor 60.7 mm width of the sensor 50 mm Ambient conditions	SVHC substance name	Imidazolidin-2-thion - 96-45-7
width of the sensor 50 mm Ambient conditions	minimum actuating force in directions of actuation	20 N
Ambient conditions	length of the sensor	60.7 mm
	width of the sensor	50 mm
	Ambient conditions	
ambient temperature	ambient temperature	
• during operation -25 +85 °C	 during operation 	-25 +85 °C
• during storage -40 +90 °C	during storage	-40 +90 °C
explosion protection category for dust none	explosion protection category for dust	none
design of the switching contact mechanical	design of the switching contact	mechanical
operating frequency rated value 50 60 Hz	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, wide	
material of the enclosure	plastic	
coating of the enclosure	Other types	
design of the housing according to standard	No	
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	slow-action contacts	
number of switching contacts safety-related	1	
cable entry type	2x (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

Type Test Certificates/Test Report

Confirmation

Further informatior

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

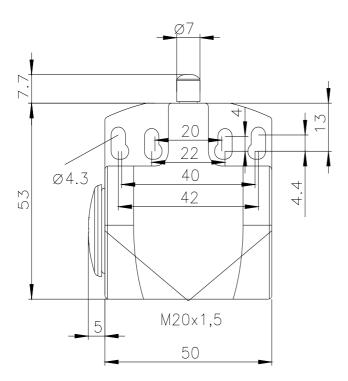
Industry Mall (Online ordering system)

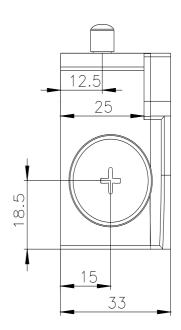
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5242-0BC05-1CA0

Cax online generator
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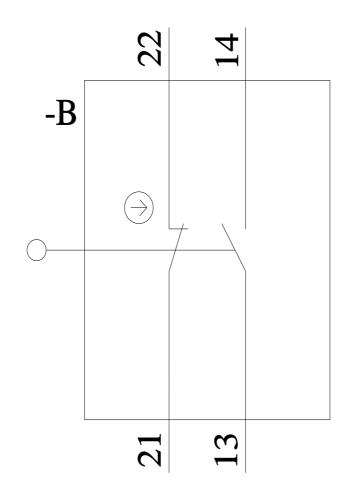
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3SE5242-0BC05-1CA0

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





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