## **SIEMENS**

Data sheet 3SE5242-0LC05



position switch plastic enclosure according to EN 50047, 50 mm device connection 2 x (M20 x 1.5) 1 NO/2 NC quick action contacts

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 60068-2-27 30g / 11 ms vibration resistance • according to IEC 60068-2-6 mechanical service life (operating cycles) typical electrical endurance (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 electrical endurance (operating cycles) typical electrical endurance (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 electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V t	product brand name	SIRIUS
manufacturer's article number  of the supplied empty enclosure with cover  suitability for use safety switch  product function positive opening insulation voltage rated value  degree of pollution surge voltage resistance rated value  according to IEC 60068-2-27  vibration resistance  according to IEC 60068-2-27  vibration resistance  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  10 A  material of the enclosure of the switch head reference code according to IEC 61346-2  continuous current of the C characteristic MCB continuous current of the Quizer Insulation  continuous current of the Quizer Insulation  surge voltage resistance  active principle mechanical repeat accuracy  0.05 mm  Substance Prohibitance (Date)  Vibration resistance  10 A  11 A: for a short-circuit current smaller than 400 A  continuous current of the Quizer Insulation  voltage insulation  v	product designation	Mechanical position switches
of the supplied empty enclosure with cover 3SE5242-0AC05      of the supplied empty enclosure with cover 3SE5242-0AC05      or the supplied empty enclosure of the value of the supplied with cover 3SE5242-0AC05      or the supplied empty enclosure of the value of the supplied with cover 3SE5242-0AC05      or the supplied empty enclosure of the supplied with cover 3SE5242-0AC05      or the supplied empty enclosure of the supplied with cover 3SE5242-0AC05      or the supplied empty enclosure of the supplied su	product type designation	3SE5
of the supplied empty enclosure with cover suitability for use safety switch  General technical data  Product function positive opening product function positive opening 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 60068-2-27 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 200 volume according to IEC 81346-2 plastic reference code according to IEC 8	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 protection class IP shock resistance e according to IEC 60068-2-27 30g / 11 ms  vibration resistance e according to IEC 60068-2-6 mechanical service life (operating cycles) typical electrical endurance (operation electrical cycl	<ul> <li>of the supplied switching contacts</li> </ul>	3SE5000-0LA00
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 60068-2-27 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 4 number 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 6 A cuttive 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 Ambient conditions ambient temperature during storage 1-25 +85 °C 40 +90 °C	<ul> <li>of the supplied empty enclosure with cover</li> </ul>	3SE5242-0AC05
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 60068-2-27 30g / 11 ms vibration resistance • according to IEC 60068-2-6 mechanical service life (operating cycles) typical electrical endurance (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 electrical endurance (operating cycles) typical electrical endurance (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 electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V t	suitability for use safety switch	Yes
insulation voltage rated value  degree of pollution  class 3 surge voltage resistance rated value  protection class IP  proferion class IP  proferion class IP  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) 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 gG  active principle  mechanical  repeat accuracy  30.5 mm  SVHC substance Prohibitance (Date)  SVHC substance name  minimum actuating force in directions of actuation  length of the sensor  40.7 mm  width of the sensor  60.7 mm  swidth of the sensor  40 during storage  40 uring storage	General technical data	
degree of pollution class I surge voltage resistance rated value protection class IP IP66/IP67 shock resistance	product function positive opening	Yes
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 20 vipical 20 vipical 30	insulation voltage rated value	400 V
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  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  10 A; for a short-circuit current smaller than 400 A  continuous current of the DIAZED fuse link  0 0.05 mm  substance Prohibitance (Date)  SVHC substance name  minimum actuating force in directions of actuation  length of the sensor  width of the sensor  width of the sensor  width of the sensor  during operation  • during storage  10 0.05 mm  -25 +85 °C  -40 +90 °C	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	protection class IP	IP66/IP67
vibration resistance	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  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  0 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  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  ambient temperature  • during operation  • during storage  -25 +85 °C  -40 +90 °C	<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	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 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 gG 6 A  active principle mechanical repeat accuracy 0.05 mm  Substance Prohibitance (Date)  SYHC 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  ambient temperature e during operation -25 +85 °C e during storage -40 +90 °C	• according to IEC 60068-2-6	0.35 mm/5g
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 plazed fuse link  continuous current of the DIAZED fuse link gG  6 A  active principle  mechanical  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  5VHC substance name  Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  60.7 mm  width of the sensor  50 mm  Ambient conditions  ambient temperature  • during operation  • during storage  -25 +85 °C  -40 +90 °C	mechanical service life (operating cycles) typical	15 000 000
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 quick DIAZED fuse link  continuous current of the DIAZED fuse link  continuous current of the DIAZED fuse link gG  6 A  active principle  mechanical  repeat accuracy  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  Ambient conditions  ambient temperature  • during operation  • during storage  -25 +85 °C  -40 +90 °C		100 000
reference code according to IEC 81346-2  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 plazed fuse link  continuous current of the DIAZED fuse link gG  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  width of the sensor  formations  ambient conditions  ambient temperature  • during operation  • during storage  -25 +85 °C  -40 +90 °C	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  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  width of the sensor  Ambient conditions  ambient temperature  • during operation  • during storage  40 +90 °C	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) 07/01/2006 SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation length of the sensor width of the sensor  width of the sensor  ### Ambient conditions  ### ambient temperature  ### during operation  ### during storage  ### 10 A; for a short-circuit current smaller than 400 A  6 A  10 A; for a short-circuit current smaller than 400 A  6 A  6 A  8 C  9 A  9 C  10 A; for a short-circuit current smaller than 400 A  6 A  10 A; for a short-circuit current smaller than 400 A  6 A  10 A; for a short-circuit current smaller than 400 A  6 A  10 A; for a short-circuit current smaller than 400 A  6 A  10 A; for a short-circuit current smaller than 400 A  6 A  10 A; for a short-circuit current smaller than 400 A  6 A  8 A  ### CHANCE OF THE STATE OF THE STAT	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  ambient temperature  • during operation -25 +85 °C  • during storage -40 +90 °C	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  ambient temperature  • during operation -25 +85 °C  • during storage -40 +90 °C	continuous current of the quick DIAZED fuse link	10 A; for a short-circuit current smaller than 400 A
repeat accuracy  Substance Prohibitance (Date)  O7/01/2006  SVHC substance name  Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  60.7 mm  width of the sensor  50 mm  Ambient conditions  ambient temperature  • during operation  • during storage  0.05 mm  -25 +85 °C  -40 +90 °C	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  60.7 mm  width of the sensor  50 mm  Ambient conditions  ambient temperature  • during operation  • during storage  07/01/2006  Imidazolidin-2-thion - 96-45-7  20 N  60.7 mm  50 mm	active principle	mechanical
SVHC substance name  Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  60.7 mm  width of the sensor  50 mm  Ambient conditions  ambient temperature  • during operation  • during storage  -40 +90 °C	repeat accuracy	0.05 mm
minimum actuating force in directions of actuation  length of the sensor  width of the sensor  50 mm  Ambient conditions  ambient temperature  • during operation  • during storage  -40 +90 °C	Substance Prohibitance (Date)	07/01/2006
length of the sensor  width of the sensor  50 mm  Ambient conditions  ambient temperature  • during operation • during storage  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  50 mm  -25 +85 °C  -40 +90 °C	minimum actuating force in directions of actuation	20 N
Ambient conditions  ambient temperature  • during operation • during storage  -40 +90 °C	length of the sensor	60.7 mm
ambient temperature  • during operation  • during storage  -25 +85 °C  -40 +90 °C	width of the sensor	50 mm
<ul> <li>during operation</li> <li>during storage</li> <li>-25 +85 °C</li> <li>-40 +90 °C</li> </ul>	Ambient conditions	
• during storage -40 +90 °C	ambient temperature	
	<ul> <li>during operation</li> </ul>	-25 +85 °C
evaluation protection extension for dust	during storage	-40 +90 °C
explosion protection category for dust	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	2	
number of NO contacts for auxiliary contacts	1	
operational current at AC-15		
at 24 V rated value	6 A	
at 129 V rated value     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	77	
• at 24 V rated value	3 A	
• at 125 V rated value	0.55 A	
at 250 V rated value     at 250 V rated value	0.27 A	
at 400 V rated value	0.12 A	
inclosure	0.12 A	
	block, wide	
design of the housing material of the enclosure	plastic	
coating of the enclosure		
	Other types No	
design of the housing according to standard	No	
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	2	
cable entry type	2x (M20 x 1.5)	
nstallation/ 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	
Sertificates/ approvals		
General Product Approval		Functional Safety/Safety of Ma

chinery





Confirmation





Type Examination Cer**tificate** 

**Declaration of Conformity** 

**Test Certificates** 

other





Type Test Certificates/Test Report

Confirmation

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

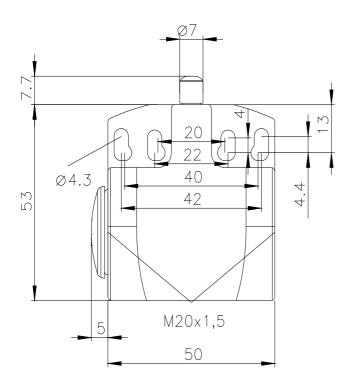
Industry Mall (Online ordering system)
<a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5242-0LC05">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5242-0LC05</a>

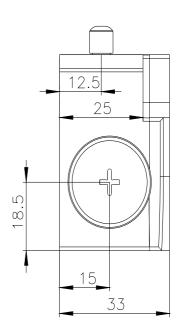
Cax online generator

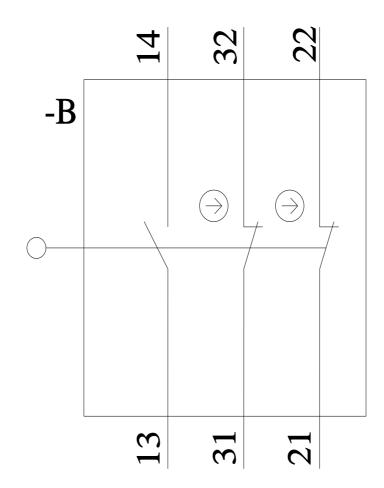
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5242-0LC05

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

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=3SE5242-0LC05&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SE5242-0LC05&lang=en</a>







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