Data sheet

3SE5232-0HC05-1AB3



Position switch with plastic enclosure Control cabinet type without mounting plate EN 50047, 1 x (M20 x 1.5) integrated (not replaceable) Rounded plunger Degree of protection IP40, with Self-sealing grommet Standard cover, turquoise without locking sheet metal, without gasket, without screws

product type designation product type designation product type designation ground type designation ground function positive opening product function positive opening ground function positive opening product function positive opening ground function positive function positive function functions ground function function functions ground function	product brand name	SIRIUS
suitability for use safety switch General technical data product function positive opening insulation voitage rated value degree of pollution class 3 surge voltage resistance rated value e 6 kV protection class IP shock resistance • according to IEC 60068-2-27 vibration resistance • according to IEC 60068-2-6 according to IEC 60068-2-6 according to IEC 60068-2-6 according to IEC 60068-2-1 insulation voitage 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 8148-2 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 accurrent of the DIAZED fuse link gG active principle mechanical mechanical properations Substance Prohibitance (Date) minimum actuating force in directions of actuation 20 N length of the sensor 31 mm Ambient temperature during operation during storage explosion protection category for dust design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts operational current at AC-15	product designation	Mechanical position switches
Product function positive opening	product type designation	3SE5
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 * 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 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 to EC 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 C characteristic MCB continuous current of the Qick 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) minimum actuating force in directions of actuation 20 N length of the sensor 31 mm Ambient temperature during operation during storage during st	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 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 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 G active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 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 mechanical repeat argressical contact mechanical poperating frequency rated value 50 60 Hz number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 operational current at AC-15	General technical data	
degree of pollution class 3 surge voltage resistance rated value 6 kV protection class IP IP40 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 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) 07/01/2006 minimum actuating force in directions of actuation 20 N length of the sensor 31 mm Ambiont conditions ambient temperature • during operation • 25 +85 °C • during storage 40 +90 °C explosion protection category for dust design of the switching contact mechanical operating frequency rated value 50 60 Hz number of NC contacts for auxiliary contacts 1 operational current at AC-15	product function positive opening	Yes
surge voltage resistance rated value protection class IP shock resistance according to IEC 60068-2-7 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 plastic reference code according to IEC 81346-2 continuous current of the C characteristic MCB continuous current of the C characteristic MCB 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) minimum actuating force in directions of actuation 20 N length of the sensor width of the sensor width of the sensor width of the sensor Anbient conditions ambient temperature 4 during operation 4 during operation 4 during storage explosion protection category for dust design of the switching contact mechanical mechanical poperating frequency rated value 50 60 Hz number of NC contacts for auxiliary contacts 1 operational current at AC-15	insulation voltage rated value	400 V
protection class IP IP40 shock resistance	degree of pollution	class 3
shock resistance according to IEC 60088-2-27 vibration resistance according to IEC 60088-2-6 mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical thermal current 10 A material of the enclosure of the switch head 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 plick DIAZED fuse link continuous current of the DIAZED fuse link gG active principle repeat accuracy Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor 31 mm Ambient conditions ambient temperature during operation during contact operating frequency rated value substance of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts operational current at AC-15	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 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 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) 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 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	protection class IP	IP40
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 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 minimum actuating force in directions of actuation length of the sensor width of the sensor width of the sensor 31 mm Ambient conditions ambient temperature during operation -25 +85 °C 40 uring storage 40 +90 °C explosion protection category for dust none design of the switching contact operating frequency rated value 50 60 Hz number of NC contacts for auxiliary contacts 1 unumber of NC contacts for auxiliary contacts 1 operational current at AC-15	shock resistance	
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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 gG 6 A active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 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 operating frequency rated value number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current at AC-15	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 6 A active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 07/01/2006 minimum actuating force in directions of actuation 20 N length of the sensor 31 mm Ambient conditions ambient temperature • during operation -25 +85 °C • during storage -40 +90 °C explosion protection category for dust 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	• according to IEC 60068-2-6	0.35 mm/5g
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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 plazed fuse link continuous current of the DIAZED fuse link gG active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 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 eduring storage -40 +90 °C explosion protection category for dust design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current at AC-15		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 3.05 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor 4.0 +85 °C e during storage e valing storage e valing storage e valing storage explosion protection category for dust operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current at AC-15	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 repeat accuracy Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor Ambient conditions ambient temperature • during operation • during storage explosion protection category for dust design of the switching contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current at AC-15	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) 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 operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current at AC-15	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 minimum actuating force in directions of actuation 20 N length of the sensor 75.7 mm width of the sensor 31 mm Ambient conditions ambient temperature • during operation -25 +85 °C • during storage -40 +90 °C explosion protection category for dust none design of the switching contact mechanical operating frequency rated value 50 60 Hz number of NC contacts for auxiliary contacts 1 operational current at AC-15	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 minimum actuating force in directions of actuation 20 N length of the sensor 75.7 mm width of the sensor 31 mm Ambient conditions ambient temperature • during operation -25 +85 °C • during storage -40 +90 °C explosion protection category for dust none design of the switching contact mechanical operating frequency rated value 50 60 Hz number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current at AC-15	continuous current of the quick DIAZED fuse link	10 A; for a short-circuit current smaller than 400 A
repeat accuracy Substance Prohibitance (Date) 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 • during storage explosion protection category for dust design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current at AC-15	continuous current of the DIAZED fuse link gG	6 A
Substance Prohibitance (Date) 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 • during storage explosion protection category for dust design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current at AC-15	active principle	mechanical
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 • during storage explosion protection category for dust design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current at AC-15	repeat accuracy	0.05 mm
length of the sensor width of the sensor 31 mm Ambient conditions ambient temperature • during operation • during storage • during storage explosion protection category for dust design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current at AC-15	Substance Prohibitance (Date)	07/01/2006
width of the sensor Ambient conditions ambient temperature • during operation • during storage explosion protection category for dust design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current at AC-15	minimum actuating force in directions of actuation	20 N
Ambient conditions ambient temperature	length of the sensor	75.7 mm
ambient temperature ● during operation -25 +85 °C ● during storage explosion protection category for dust none design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current at AC-15	width of the sensor	31 mm
● during operation ● during storage ● during storage ● during storage ←40 +90 °C explosion protection category for dust none design of the switching contact mechanical operating frequency rated value for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current at AC-15 -25 +85 °C -40 +90 °C mechanical for auxiliary contact 1 operational current at AC-15	Ambient conditions	
● during storage explosion protection category for dust none design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current at AC-15	ambient temperature	
explosion protection category for dust design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current at AC-15	 during operation 	-25 +85 °C
design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current at AC-15	during storage	-40 +90 °C
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	explosion protection category for dust	none
number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current at AC-15	design of the switching contact	mechanical
number of NO contacts for auxiliary contacts 1 operational current at AC-15	operating frequency rated value	50 60 Hz
operational current at AC-15	number of NC contacts for auxiliary contacts	1
	number of NO contacts for auxiliary contacts	1
at 24 V rated value 6 A	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	plastic
coating of the enclosure	Other types
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, integrated
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)
 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,...)

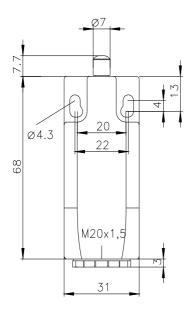
https://www.siemens.com/ic10

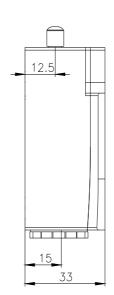
Industry Mall (Online ordering system)

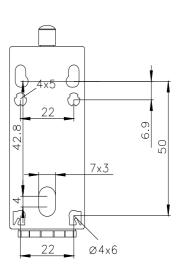
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5232-0HC05-1AB3

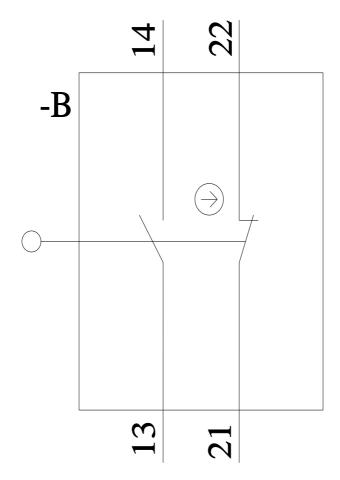
Cax online generator

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3SE5232-0HC05-1AB3&lang=en









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