SIEMENS

Data sheet 3SE5050-0BA00



Contact block IP20 for position switch 3SE5250 open type design 1 NO/1 NC slow-action contact

product function positive opening insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value 6 kV protection class IP IP20, conductor connected and clamping screw screwed in 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 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 G active principle repeat accuracy Substance Prohibitance (Date) vival 400 V class 3 400 V class 3 6 kV IP20, conductor connected and clamping screw screwed in 800 / 100 100	product brand name	SIRIUS
product function positive opening Yes insulation voltage rated value 400 V degree of poliution class 3 surge voltage resistance rated value 6 kV protection class IP IP20, conductor connected and clamping screw screwed in 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 according to IEC 60068-2-6 0,35 mm/5g according to IEC 60068-2-6 15 0,000 000 delectrical endurance (operating cycles) typical 15 000 000 delectrical endurance (operating cycles) ta AC-15 at 230 V typical 15 000 000 delectrical endurance (operating cycles) ta AC-15 at 230 V typical 25 0 delectrical endurance (operating cycles) ta AC-15 at 230 V typical 25 0 delectrical endurance (operating cycles) ta AC-15 at 230 V typical 26 delectrical endurance (operating cycles) ta AC-15 at 230 V typical 27 delectrical endurance (operating cycles) ta AC-15 at 230 V typical 27 delectrical endurance (operating cycles) ta AC-15 at 230 V typical 27 delectrical endurance (operating cycles) ta AC-15 at 230 V typical 28 delectrical endurance (operating cycles) ta AC-15 at 230 V typical 28 delectrical endurance (operating cycles) ta AC-15 at 230 V typical 28 delectrical endurance (operating cycles) ta AC-15 at 230 V typical 28 delectrical endurance (operating ta AC-15 at 230 V typical 28 delectrical endurance (operation 28 delectrical endurance (operation 29 delectrical endura	product designation	contact
product function positive opening Insulation voltage rated value degree of pollution surge voltage resistance rated value 6 kV protection class IP 8 IP20, conductor connected and clamping screw screwed in shock resistance • according to IEC 80068-2-27 30g / 11 ms vibration resistance • according to IEC 80068-2-6 0.35 mm/5g mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical thermal current 10 A reference code according to IEC 81346-2 Southinuous current of the Characteristic MCB 1 A/, for a short-circuit current smaller than 400 A continuous current of the 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 2 O/1 mm Substance Prohibitance (Date) 7/01/2006 width of the sensor 2 Sm Ambient conditions ambient temperature • during operation • during storage explosion protection category for dust operating frequency rated value 10 A/2 - 490 °C explosion protection category for dust 11 Connection one 0 operating frequency rated value 12 - 21 A/ 2 Y rated value 13 - 24 A/ 2 Y rated value 14 - 24 A/ 2 Y rated value 15 - 24 A/ 2 Y rated value 16 A// 2 - 4 A// 2 Y rated value 16 A// 2 - 4 A// 2 Y rated value 17 - 4 A// 2 Y rated value 18 - 4 A// 2 Y rated value 18 - 4 A// 2 Y rated value 18 - 4 A// 2 Y rated value 19 - 4 A// 2 Y rated value 19 - 4 A// 2 Y rated value 10 - 4 A// 2 Y rated value 10 - 4 A// 2 Y rated value 10 - 4 A// 2 Y rated value 11 - 4 A// 2 Y rated value 12 - 4 A// 2 Y rated value 13 - 4 A// 2 Y rated value 14 - 4 A// 2 Y rated value 15 - 4 A// 2 Y rated value 16 - 4 A// 2 Y rated value 17 - 4 A// 2 Y rated value 18 - 4 A// 2 Y rated value 19 - 4 A// 2 Y rated	product type designation	3SE5
Insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value protection class IP P20, conductor connected and clamping screw screwed in shock resistance according to IEC 60068-2-27 30g / 11 ms vibration resistance according to IEC 60068-2-6 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 ference code according to IEC 81346-2 scontinuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link 70 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link gG active principle mechanical repeat accuracy 0.1 mm Substance Prohibitance (Date) width of the sensor Anbient temperature during operation during storage explosion protection category for dust number of NC contacts for auxillary contacts 1 mumber of NC contacts for auxillary contacts at 125 V rated value at 1240 V rated value at 1240 V rated value at 125 V rated value at 1240 V rated value at 125 V rated value at 125 V rated value at 1240 V rated value at 125 V rated value at 125 V rated value at 1240 V rated value at 125 V rated value	General technical data	
degree of pollution class 3 surge voltage resistance rated value protection class IP IP20, conductor connected and clamping screw screwed in 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 2000 000 thermal current 10 Life 181346-2 S 100 000 thermal current of the C characteristic MCB 1A; for a short-circuit current smaller than 400 A 1A; for a short-circuit	product function positive opening	Yes
surge voltage resistance rated value 6 kV protection class IP IP20, conductor connected and clamping screw screwed in 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 20 100 000 thermal current 10 A reference code according to IEC 81346-2 S 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 10 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 9 G A Active principle mechanical repeat accuracy 0.1 mm Substance Prohibitance (Date) 07/01/2006 width of the sensor 25 mm Ambient temperature • during operation -25 +85 °C -40 +90 °C explosion protection category for dust none operating frequency rated value 50 60 Hz number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 6 A • at 24 V rated value 6 A • at 24 V rated value 6 A • at 24 V rated value 6 A • at 400 V rated value 6 A	insulation voltage rated value	400 V
protection class IP IP20, conductor connected and clamping screw screwed in 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 2000 000 electrical endurance (operating cycles) at AC-15 at 230 V typical 300 000 thermal current 10 A	degree of pollution	class 3
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 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 Q characteristic MCB 1 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link 6 A active principle mechanical repeat accuracy 0.1 mm Substance Prohibitance (Date) width of the sensor Ambient conditions ambient temperature during operation during operation during storage explosion protection category for dust operating frequency rated value operating frequency rated value 10 operational current at AC-15 at 24 V rated value at 25 V rated value at 240 V rated value	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 reference code according to IEC 81346-2 S 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 pulck DIAZED fuse link 10 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 0.1 mm Substance Prohibitance (Date) width of the sensor Ambient conditions ambient temperature during operation during operation during operation actegory for dust operating frequency rated value operating frequency rated value for C contacts for auxiliary contacts 1 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 at 24 V rated value at 25 V rated value at 240 V rated value	protection class IP	IP20, conductor connected and clamping screw screwed in
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 reference code according to IEC 81346-2 S 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 plick 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 0.1 mm Substance Prohibitance (Date) width of the sensor 25 mm Ambient temperature • during operation • during storage 4 du +90 °C explosion protection category for dust none operating frequency rated value number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 operational current at AC-15 • at 24 V rated value • at 400 V rated value • at 4400 V rated value • at 400 V rated value	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 reference code according to IEC 81346-2 sontinuous 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 active principle repeat accuracy 0.1 mm Substance Prohibitance (Date) width of the sensor Ambient conditions ambient temperature during operation during storage explosion protection category for dust operating frequency rated value operating frequency rated value 10 A 6 A 6 A 6 A 6 A 10 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link gG 6 A active principle mechanical mec	• 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 reference code according to IEC 81346-2 S 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 pliAZED fuse link Continuous current of the DIAZED fuse link gG 6 A active principle repeat accuracy 0.1 mm Substance Prohibitance (Date) width of the sensor Ambient conditions ambient temperature • during operation • during storage explosion protection category for dust operating frequency rated value number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 operational current at AC-15 • at 24 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value	vibration resistance	
electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current 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 do A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link go 6 A active principle mechanical repeat accuracy 0.1 mm Substance Prohibitance (Date) 0.7/01/2006 width of the sensor 25 mm Ambient conditions ambient temperature • during operation • during storage -40 +90 °C explosion protection category for dust none 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 240 V rated value 6 A • at 240 V rated value 6 A • at 400 V rated value 4 A operational current at DC-13	• according to IEC 60068-2-6	0.35 mm/5g
thermal current reference code according to IEC 81346-2 S 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 repeat accuracy 0.1 mm Substance Prohibitance (Date) width of the sensor 40 mechanical repeat accuracy 25 mm Ambient conditions ambient temperature • during operation • during operation • during storage 40 +90 °C explosion protection category for dust operating frequency rated value number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 1 coperational current at AC-15 • at 24 V rated value	mechanical service life (operating cycles) typical	15 000 000
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 repeat accuracy 0.1 mm Substance Prohibitance (Date) width of the sensor Ambient conditions ambient temperature oduring operation operating frequency rated value operating frequency rated value number of NC contacts for auxiliary contacts at 24 V rated value oe at 125 V rated value oe at 400 V rated value operational current at AC-15 at 24 V rated value oe at 400 V rated value operational current at DC-13	· · · · · · · · · · · · · · · · · · ·	100 000
continuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link continuous current of the quick DIAZED fuse link continuous current of the DIAZED fuse link gG active principle repeat accuracy 0.1 mm Substance Prohibitance (Date) width of the sensor Ambient conditions ambient temperature • during operation • during storage explosion protection category for dust none operating frequency rated value number of NC contacts for auxiliary contacts • at 24 V rated value • at 125 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • 4 A	thermal current	10 A
continuous current of the quick DIAZED fuse link continuous current of the DIAZED fuse link gG	reference code according to IEC 81346-2	S
continuous current of the DIAZED fuse link gG active principle mechanical repeat accuracy 0.1 mm Substance Prohibitance (Date) 07/01/2006 width of the sensor 25 mm Ambient conditions ambient temperature • during operation -25 +85 °C • during storage -40 +90 °C explosion protection category for dust none 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 400 V rated value 4 A operational current at DC-13	continuous current of the C characteristic MCB	1 A; for a short-circuit current smaller than 400 A
active principle mechanical repeat accuracy 0.1 mm Substance Prohibitance (Date) 07/01/2006 width of the sensor 25 mm Ambient conditions ambient temperature • during operation -25 +85 °C • during storage -40 +90 °C explosion protection category for dust none 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	continuous current of the quick DIAZED fuse link	10 A; for a short-circuit current smaller than 400 A
repeat accuracy Substance Prohibitance (Date) width of the sensor Ambient conditions ambient temperature • during operation • during storage explosion protection category for dust none operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 operational current at AC-15 • at 24 V rated value • at 125 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 90 V rated value • at 400 V rated value • at 90 V rated value • 4 A	continuous current of the DIAZED fuse link gG	6 A
Substance Prohibitance (Date) width of the sensor Ambient conditions ambient temperature • during operation • during storage • during storage explosion protection category for dust none operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 operational current at AC-15 • at 24 V rated value • at 125 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value	active principle	mechanical
width of the sensor Ambient conditions ambient temperature • during operation • during storage • during s	repeat accuracy	0.1 mm
Ambient conditions ambient temperature • during operation • during storage • during storage • during storage • during requency for dust none operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 operational current at AC-15 • at 24 V rated value • at 125 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value	Substance Prohibitance (Date)	07/01/2006
ambient temperature • during operation • during storage • during storage • during storage • during storage • 25 +85 °C • an one operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 operational current at AC-15 • at 24 V rated value • at 125 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value operational current at DC-13	width of the sensor	25 mm
 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 number of NO contacts for auxiliary contacts operational current at AC-15 at 24 V rated value at 125 V rated value at 240 V rated value at 240 V rated value at 240 V rated value operational current at DC-13 	Ambient conditions	
 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 at 24 V rated value at 125 V rated value at 240 V rated value at 240 V rated value at 400 V rated value at 400 V rated value at 400 V rated value 	ambient temperature	
explosion protection category for dust operating frequency rated value so 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 • at 125 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value	 during operation 	-25 +85 °C
operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 operational current at AC-15 • at 24 V rated value • at 125 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value operational current at DC-13	during storage	-40 +90 °C
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current at AC-15 • at 24 V rated value • at 125 V rated value • at 240 V rated value • at 250 V rated value • at 250 V rated value • at 260 V rated value • at 270 V rated value • at 270 V rated value • at 270 V rated value	explosion protection category for dust	none
number of NO contacts for auxiliary contacts operational current at AC-15 • at 24 V rated value • at 125 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value operational current at DC-13	operating frequency rated value	50 60 Hz
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 240 V rated value 6 A • at 400 V rated value 4 A operational current at DC-13	number of NC contacts for auxiliary contacts	1
 at 24 V rated value at 125 V rated value at 240 V rated value at 240 V rated value at 400 V rated value at 400 V rated value 4 A 	number of NO contacts for auxiliary contacts	1
at 125 V rated value at 240 V rated value at 400 V rated value operational current at DC-13 6 A 4 A	operational current at AC-15	
• at 240 V rated value 6 A • at 400 V rated value 4 A operational current at DC-13	at 24 V rated value	6 A
• at 400 V rated value 4 A operational current at DC-13	• at 125 V rated value	6 A
operational current at DC-13	• at 240 V rated value	6 A
	• at 400 V rated value	4 A
• at 24 V rated value 3 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		
coating of the enclosure	Other types	
Drive Head		
design of the switching function	positive opening	
circuit principle	slow-action contacts	
number of switching contacts safety-related	1	
Installation/ mounting/ dimensions		
mounting position	any	
fastening method	snap-on mounting	
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

<u>KC</u>



Confirmation

other

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=3SE5050-0BA00

Cax online generator

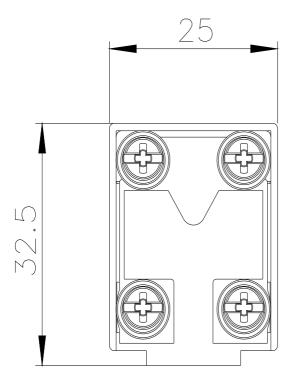
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5050-0BA00

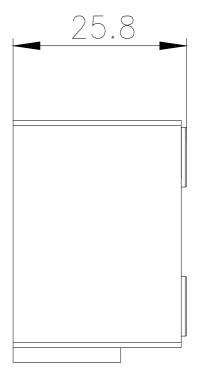
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SE5050-0BA00

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5050-0BA00&lang=en





last modified: 12/21/2020 🖸