SIEMENS

Data sheet

3SE5423-0CD20-1EB1



Position switch in compact design 40 mm wide with connector plug M12 Snapaction contacts 1 NO+1 NC with roller plunger

product function positive openingYesinsulation voltage rated value400 Vdegree of pollution3surge voltage resistance rated value4 kVprotection class IPIP67shock resistance-• according to IEC 60068-2-2730g / 11 msvibration resistance according to IEC 60068-2-60.35 mm/5gmechanical service life (operating cycles) typical5 000 000electrical endurance (operating cycles) typical100 000thermal current10 Amaterial of the enclosure of the switch headstainless steelreference code according to IEC 81346-2Bactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation15 Nlength of the sensor40 mm		
product type designation 3SE5 suitability for use safety switch Yes product function positive opening Yes insulation voltage rated value 400 V degree of pollution 3 surge voltage resistance rated value 4 kV protect function resistance rated value 4 kV • 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 5 000 000 electrical endurance (operating cycles) tat AC-15 at 230 V 100 000 typical 10 A material of the enclosure of the switch head stainless steel reforence code according to IEC 8146-2 B suttee principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 07/10206 minimum actuating force in directions of actuation 15 N length of the sensor 40 mm Aubient conditions -25 +85 °C extlosion genetion -25 +85 °C extlosion genetion -25 +85 °C <t< th=""><th>product brand name</th><th>SIRIUS</th></t<>	product brand name	SIRIUS
suitability for use safety switch Yes General tochnical data	product designation	Mechanical position switches
General technical data Yes insulation voltage rated value 400 V degree of pollution 3 surge voltage resistance rated value 4 kV protection class IP IP67 shock resistance 967 • according to IEC 60068-2-27 30g /11 ms vibration resistance according to IEC 60068-2-6 0.35 mm/Sg mechanical service life (operating cycles) typical 5 000 000 electrical endurance (operating cycles) typical 5 000 000 electrical endurance (operating cycles) typical 10 A material of the enclosure of the switch head stainless steel reference code according to IEC 81346-2 B active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 0701/2006 minimum actuating force in directions of actuation 15 N length of the sensor 70 mm width of the sensor 25 +45 °C eduing operation -25 +45 °C eduing storage -25 +45 °C eduing operation -25 +45 °C eduin	product type designation	3SE5
product function positive opening Yes insulation voltage rated value 400 V degree of pollution 3 surge voltage resistance rated value 4 kV protection class IP IP67 shock resistance - • according to IEC 60068-2-8 0.35 mm/5g mechanical service life (operating cycles) typical 5 000 000 electrical endurance (operating cycles) at AC-15 at 230 V 100 000 typical 100 000 repeat according to IEC 81346-2 B active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 07/01/2006 minimum actuating force in directions of actuation 15 N length of the sensor 40 mm Anbient conditions -25 +85 °C explosion protection category for dust none operating frequency reducts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 operation functions for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 operational	suitability for use safety switch	Yes
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surge voltage resistance rated value 4 kV protection class IP shock resistance shock resistance saccording to IEC 60068-2-27 30g / 11 ms vibration resistance according to IEC 60068-2-6 0.35 mm/5g mechanical service Iffe (operating cycles) typical feetrical endurance (operating typical) feetrical endurance (Date) feetrical endurance (Date) for minimum actuating force in directions of actuation for minimum actuating for endure for Contacts for auxiliary contacts for endurating for endure for Contacts for auxiliary contacts for endurating for endure for Contact	insulation voltage rated value	400 V
protection class IP 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 5 000 000 electrical endurance (operating cycles) typical 100 000 thermal current 10 A material of the enclosure of the switch head stainless steel reference code according to IEC 81346-2 B active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 07/01/2006 minimum actuating force in directions of actuation 15 N length of the sensor 40 mm Ambient conditions -25 +85 °C eduring operation -25 +85 °C eduring operation 50 60 Hz number of NC contacts for auxiliary contacts 1 operating frequency rated value 50 60 Hz number of NC contacts for auxiliary contacts 1 operational current at AC-15 - e at 125 V rated value 6 A	degree of pollution	3
shock resistance 30g / 11 ms vibration resistance according to IEC 60068-2-6 0.35 mm/5g mechanical service life (operating cycles) typical 5 000 000 electrical endurance (operating cycles) typical 5 000 000 electrical endurance (operating cycles) typical 100 000 thermal current 10 A material of the enclosure of the switch head stainless steel reference code according to IEC 81346-2 B active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 07/01/2006 minimum actuating force in directions of actuation 15 N length of the sensor 70 mm width of the sensor 70 mm ambient temperature -25 +85 °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 auxillary contacts 1 operating frequency rated value 6 A atil 25 V rated value 6 A atil 25 V rated value 6 A <th>surge voltage resistance rated value</th> <th>4 kV</th>	surge voltage resistance rated value	4 kV
• according to IEC 60068-2-2730g / 11 msvibration resistance according to IEC 60068-2-60.35 mm/5gmechanical service life (operating cycles) typical5 000 000electrical endurance (operating cycles) ta AC-15 at 230 V typical100 000electrical endurance (operating cycles) at AC-15 at 230 V typical100 000material of the enclosure of the switch headstainless steelreference code according to IEC 81346-2Bactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating fore in directions of actuation15 Nlength of the sensor40 mmAnbient conditions-25 +85 °C• during operation-25 +85 °C• during storage-25 +85 °C• during storage50 60 Hznumber of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts1• at 125 V rated value6 A• at 230 V rated value3 Aoperational current at AC-15-• at 125 V rated value6 A• at 125 V rated value6 A• at 125 V rated value0.55 A	protection class IP	IP67
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typicalImage: Constant of the service of the switch head10 Amaterial of the enclosure of the switch headstainless steelreference code according to IEC 81346-2Bactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation15 Nlength of the sensor70 mmwidth of the sensor40 mmAmbient conditions-25 +85 °C• during operation-25 +85 °C• during storage-25 +85 °C• during storage25 +85 °C• during storage25 +85 °C• during storage50 60 Hznumber of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts1• at 125 V rated value6 A• at 230 V rated value3Aoperational current at DC-13-• at 125 V rated value0.55 A	mechanical service life (operating cycles) typical	5 000 000
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active principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation15 Nlength of the sensor70 mmwidth of the sensor40 mmAmbient conditions40 mmambient temperature-25 +85 °C• during operation-25 +85 °C• during storage-25 +85 °C• during the switching contactnonedesign of the switching contact50 60 Hznumber of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts1• at 125 V rated value6 A• at 230 V rated value3 Aoperational current at DC-130.55 A	material of the enclosure of the switch head	stainless steel
repeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation15 Nlength of the sensor70 mmwidth of the sensor40 mmAmbient conditions-25 +85 °Cambient temperature-25 +85 °C• during operation-25 +85 °C• during storage-25 +85 °Cexplosion protection category for dustnonedesign of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1operational current at AC-151• at 125 V rated value6 A• at 125 V rated value0.55 A	reference code according to IEC 81346-2	В
Substance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation15 Nlength of the sensor70 mmwidth of the sensor40 mmAmbient conditionsambient temperature• during operation-25 +85 °C• during storage-25 +85 °Cexplosion protection category for dustnonedesign of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1operational current at AC-151• at 125 V rated value6 A• at 125 V rated value0.55 A	active principle	mechanical
minimum actuating force in directions of actuation15 Nlength of the sensor70 mmwidth of the sensor40 mmAmbient conditions	repeat accuracy	0.05 mm
length of the sensor 70 mm width of the sensor 40 mm Ambient conditions 40 mm ambient temperature -25 +85 °C • during operation -25 +85 °C • during storage -25 +85 °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 1 • at 125 V rated value 6 A • at 230 V rated value 3 A operational current at DC-13 0.55 A	Substance Prohibitance (Date)	07/01/2006
width of the sensor 40 mm Ambient conditions 40 mm ambient temperature during operation 25 +85 °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 NC contacts for auxiliary contacts at 125 V rated value 6 A at 230 V rated value 0.55 A 	minimum actuating force in directions of actuation	15 N
Ambient conditions Formation ambient temperature -25 +85 °C • during operation -25 +85 °C • during storage -25 +85 °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 1 • at 125 V rated value 6 A • at 230 V rated value 3 A operational current at DC-13 0.55 A	length of the sensor	70 mm
ambient temperature-25 +85 °C• during operation-25 +85 °C• during storage-25 +85 °Cexplosion protection category for dustnonedesign of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1number of NO contacts for auxiliary contacts1operational current at AC-156 A• at 125 V rated value3 Aoperational current at DC-130.55 A	width of the sensor	40 mm
• during operation-25 +85 °C• during storage-25 +85 °C• explosion protection category for dustnonedesign of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1operational current at AC-151• at 125 V rated value6 A• at 230 V rated value3 Aoperational current at DC-130.55 A	Ambient conditions	
• during storage-25 +85 °Cexplosion protection category for dustnonedesign of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1operational current at AC-15• at 125 V rated value6 A• at 230 V rated value3 Aoperational current at DC-13• at 125 V rated value0.55 A	ambient temperature	
explosion protection category for dustnonedesign of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1number of NO contacts for auxiliary contacts1operational current at AC-15-• at 125 V rated value6 A• at 230 V rated value3 Aoperational current at DC-13-• at 125 V rated value0.55 A	during operation	-25 +85 °C
design of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1number of NO contacts for auxiliary contacts1operational current at AC-151• at 125 V rated value6 A• at 230 V rated value3 Aoperational current at DC-130.55 A	during storage	-25 +85 °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 6 • at 125 V rated value 6 A • at 230 V rated value 3 A operational current at DC-13 0.55 A	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 1 • at 125 V rated value 6 A • at 230 V rated value 3 A operational current at DC-13 0.55 A	design of the switching contact	mechanical
number of NO contacts for auxiliary contacts 1 operational current at AC-15 - • at 125 V rated value 6 A • at 230 V rated value 3 A operational current at DC-13 - • at 125 V rated value 0.55 A	operating frequency rated value	50 60 Hz
operational current at AC-15 6A • at 125 V rated value 6A • at 230 V rated value 3A operational current at DC-13 0.55 A	number of NC contacts for auxiliary contacts	1
• at 125 V rated value 6 A • at 230 V rated value 3 A operational current at DC-13 0.55 A	number of NO contacts for auxiliary contacts	1
• at 230 V rated value 3 A operational current at DC-13 0.55 A	operational current at AC-15	
operational current at DC-13 • at 125 V rated value 0.55 A	• at 125 V rated value	6 A
• at 125 V rated value 0.55 A	• at 230 V rated value	3 A
	operational current at DC-13	
at 230 V rated value 0.27 A	• at 125 V rated value	0.55 A
	• at 230 V rated value	0.27 A

Enclosure		
design of the housing	block	
material of the enclosure	metal	
coating of the enclosure	painted	
design of the housing according to standard	No	
Drive Head		
design of the actuating element	roller plunger	
shape of the switch head	roller	
design of the switching function	positive opening	
circuit principle	snap-action contacts	
number of switching contacts safety-related	1	
design of plug-in connection	M12 connector, 5-pole: pin 1= terminal BK, pin 2= BK/WH, pin 3= BU, pin 4= BN, pin 5= GN/YE	
Installation/ mounting/ dimensions		
mounting position	any	
fastening method	screw fixing	
Connections/ Terminals		
type of electrical connection	M12 plug, fixed, 5-pole	
design of the interface for safety-related communication	without	
Communication/ Protocol		
design of the interface	without	
Certificates/ approvals		
General Product Approval		
UK CE CA EG-Konf.		

other

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=3SE5423-0CD20-1EB1

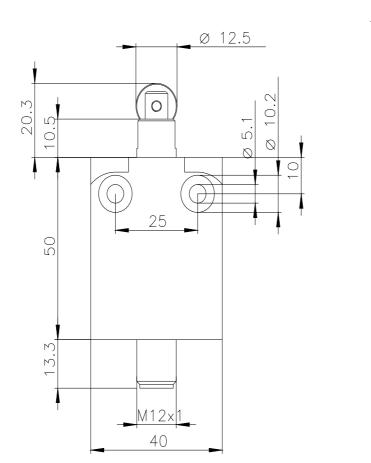
Cax online generator

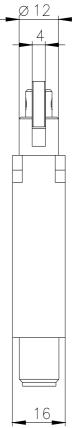
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5423-0CD20-1EB1

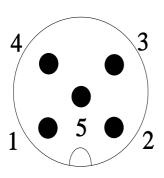
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SE5423-0CD20-1EB1

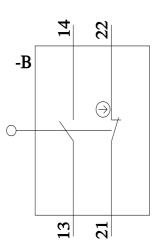
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5423-0CD20-1EB1&lang=en







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