SIEMENS

Data sheet

3SE5423-0CD20-1EA2



Position switch in compact design 40 mm wide with connection cable 2 m Snapaction contacts 1 NO+1 NC with roller plunger

product brand name SIRUS product designation Aschanical position switches product type designation 3SE5 suitability for use safely switch Yes General technical data product function positive opening Yes insultation voitage rated value 400 V degree of polituion 3 surge voitage resistance rated value 4 kV protection class IP IP67 * according to IEC 60068-2-27 30g / 11 ms Simm/Sg mechanical service life (operating cycles) yoical 5 000 000 electrical endurance (operating cycles) yoical 5 000 000 100 000		
product type designation 3SE5 suttability 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 protection class IP IP67 shock resistance 4 kV protection class IP IP67 shock resistance 30g / 11 ms • according to IEC 60068-2-27 30g / 11 ms wibration resistance according to IEC 60068-2-6 0.35 mm/Sg mechanical service life (operating cycles) typical 5000 000 electrical endurance (operating cycles) typical 5000 000 electrical endurance (operating cycles) typical 100 A material of the enclosure of the switch head stainless steel reference code according to IEC 81346-2 B active principle mechanical repart 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 <t< th=""><th>product brand name</th><th>SIRIUS</th></t<>	product brand name	SIRIUS
suitability for use safety switch Yes General technical data	product designation	Mechanical position switches
General technical data Yes product function positive opening Yes Insulation or oldage rated value 400 V degree of pollution 3 surge voltage resistance rated value 4 kV protection class IP IP67 shock resistance according to IEC 60068-2-27 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) at AC-15 at 230 V 100 000 typical 10 A material of the enclosure of the switch head stainless steel reference code according to IEC 81346-2 B active principle mechanical reference code according to IEC 81346-2 B active principle mechanical reference code according to IEC 81346-2 B active principle mechanical reference code according to IEC 81346-2 B active principle mechanical reference code according to IEC 81346-2 B active principle mechanical reference code according to IEC 81346-2 B	product type designation	3SE5
product function positive opening Yes Insulation voltage reted value 400 V degree of pollution 3 surge voltage resistance rated value 4 kV protection class IP IP67 shock resistance according to IEC 60068-2-27 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) at AC-15 at 230 V 100 000 typical 100 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 Anbient conditions -25 +85 °C • during storage -25 +85 °C • during operation -25 +85 °C exporting frequency rated value 50 60 Hz <th>suitability for use safety switch</th> <th>Yes</th>	suitability for use safety switch	Yes
insulation voltage rated value 400 V degree of pollution 3 surge voltage resistance rated value 4 kV protection class IP IP67 shock resistance 30g / 11 ms • 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 5 000 000 electrical endurance (operating cycles) at AC-15 at 230 V 100 000 typical 10 0 000 etaria 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 temperature -25 +85 °C • during operation -25 +85 °C • at 250 v fact value 50 60 Hz number of NC contacts for aux	General technical data	
degree of pollution 3 surge voltage resistance rated value 4 kV protection class IP IP67 shock resistance IP67 • according to IEC 60068-2-27 30g / 11 ms vibration resistance according to IEC 60068-2-6 0.35 mm/5g mechanical service IIF (operating cycles) typical 5 000 000 electrical endurance (operating cycles) at AC-15 at 230 V 100 000 typical 10A 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 Anbient conditions - amblent temperature - • during operation -25 +85 °C • during torage -25 +85 °C • during torage -25 +85 °C • during torage -25 +85 °C • during operation -25 +85 °C • during torauxiliary contacts 1	product function positive opening	Yes
surge voltage resistance rated value 4 kV protection class IP IP67 shock resistance IP67 shock resistance 30g / 11 ms vibration resistance according to IEC 60068-2-7 30g / 11 ms vibration resistance according to IEC 60068-2-6 0.35 mm/5g mechanical service IIF (operating cycles) typical 5 000 000 electrical endurance (operating cycles) typical 5 000 000 electrical endurance (operating cycles) ta AC-15 at 230 V 100 000 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) 07/01/2006 minimum actuating force in directions of actuation 15 N length of the sensor 70 mm width of the sensor 40 mm Ambient conditions ambient conditions ambient memperature -25 +85 °C • during operation -25 +85 °C • during operation -25 +85 °C • during operation -25 +65 °C	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) at AC-15 at 230 V 100 000 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) 07/01/2006 minimum actuating force in directions of actuation 15 N length of the sensor 40 mm Ambient conditions -25 +85 °C ambient temperature -25 +85 °C • during operation -25 +85 °C • 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 operating frequency rated value 3A operational current at AC-15 4 • at 230 V rated value 3A operational current at DC-13 <th>degree of pollution</th> <th>3</th>	degree of pollution	3
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) at AC-15 at 230 V 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 40 mm Anblent conditions -25 +85 °C e during operation -25 +85 °C e at 20 V contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 operational current at AC-15 1	surge voltage 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) at AC-15 at 230 V 100 000 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) 07/01/2006 minimum actuating force in directions of actuation 15 N length of the sensor 70 mm width of the sensor 70 mm width of the sensor 70 mm width of the sensor 25 +85 °C e during operation -25 +85 °C e 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 number of NC contacts for auxiliary contacts 1 e at 230 V rated value 6 A e at 230 V rated value 3A operational current at DC-13 6 A e at 25 V rated valu	protection class IP	IP67
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electrical endurance (operating cycles) at AC-15 at 230 V 100 000 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) 07/01/2006 minimum actuating force in directions of actuation 15 N length of the sensor 70 mm width of the sensor 40 mm Ambient conditions -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 1 e at 125 V rated value 6 A e at 230 V rated value 3 A operational current at DC-13 0.55 A	vibration resistance according to IEC 60068-2-6	0.35 mm/5g
typical IDA 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 40 mm Ambient conditions -25 +85 °C • during operation -25 +85 °C • during storage -25 +85 °C • dring operation -25 +85 °C • at 25 V rated value 50 60 Hz number of NC contacts for auxiliary contacts 1 number of NO contacts for auxi	mechanical service life (operating cycles) typical	5 000 000
material 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 conditionsambient conditionsambient 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 contacts1operatinal current at AC-156 A• at 125 V rated value6 A• at 125 V rated value0.55 A		100 000
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 40 mm Ambient conditions ambient temperature • 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 • at 125 V rated value 6 A • at 125 V rated value 0.55 A	thermal current	10 A
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 40 mm Ambient conditions ambient temperature • during operation -25 +85 °C • during storage -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 - • at 125 V rated value 6 A • at 125 V rated value 0.55 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 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-156 A• at 125 V rated value3 Aoperational current at DC-130.55 A	reference code according to IEC 81346-2	В
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 40 mm Ambient conditions ambient temperature • 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 6 A • at 125 V rated value 3 A operational current at DC-13 0.55 A	active principle	mechanical
minimum 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 °Cexplosion protection category for dustnonedesign of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1operational current at AC-156 A• at 125 V rated value6 A• at 230 V rated value3 Aoperational current at DC-130.55 A	repeat accuracy	0.05 mm
length of the sensor70 mmwidth of the sensor40 mmAmbient conditions40 mmambient 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-15• at 125 V rated value• at 125 V rated value3 Aoperational current at DC-130.55 A	Substance Prohibitance (Date)	07/01/2006
width of the sensor 40 mm Ambient conditions ambient temperature • 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 3 A operational current at DC-13 3 A • at 125 V rated value 0.55 A	minimum actuating force in directions of actuation	15 N
Ambient conditions ambient temperature • during operation -25 +85 °C • during storage -25 +85 °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 number of NO contacts for auxiliary contacts 1 operational current at AC-15 • at 125 V rated value 6 A • at 125 V rated value 0 coperational current at DC-13 • at 125 V rated value 0.55 A	length of the sensor	70 mm
ambient 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 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 °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	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-151• at 125 V rated value6 A• at 230 V rated value3 Aoperational current at DC-130.55 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-156 A• at 125 V rated value3 Aoperational current at DC-130.55 A	 during operation 	-25 +85 °C
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 6 A • at 125 V rated value 3 A operational current at DC-13 0.55 A	during storage	-25 +85 °C
operating 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	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 6 • at 125 V rated value 6 A • at 230 V rated value 3 A operational current at DC-13 0.55 A	operating frequency rated value	50 60 Hz
operational current at AC-15 6 A • at 125 V rated value 6 A • at 230 V rated value 3 A 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
material of cable sheath	PVC
Drive Head	
design of the actuating element	roller plunger
shape of the switch head	roller
design of the switching function	snap-action contact
circuit principle	snap-action contacts
number of switching contacts safety-related	1
nstallation/ mounting/ dimensions	
mounting position	any
fastening method	screw fixing
Connections/ Terminals	
type of electrical connection	cable, 5 x 0.75mm ²
design of the interface for safety-related communication	without
Communication/ Protocol	
design of the interface	without
Certificates/ approvals	
General Product Approval	Declaration of Con- formity
Confirmation	
Declaration of Con- formity other	
Confirmation EG-Konf.	
Further information Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-do	

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=3SE5423-0CD20-1EA2

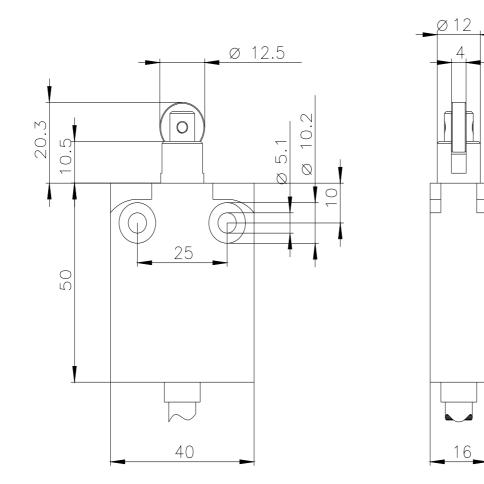
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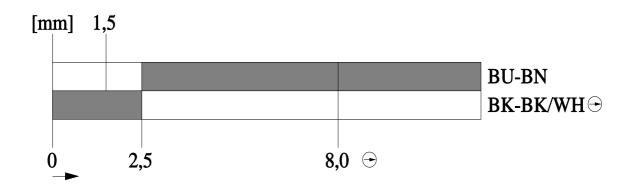
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3SE5423-0CD20-1EA2

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5423-0CD20-1EA2&lang=en





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