Data sheet

3SE5114-0BA00-1AC5



Basic switch for position switch 3SE51 Metal enclosure 40 mm according to EN 50041 1 NO/1 NC slow-action contacts with M12 connector, 5-pole, fixed PIN assignment: PIN1=21, PIN2=22 PIN3=13, Pin4=14, PIN5=PE without actuator head

product type designation product type designation of the supplied switching contacts of the supplied switching contacts suitability for use safety switch Product function positive opening Product function posit	product brand name	SIRIUS
manufacturer's article number • of the supplied switching contacts 38£6000-0BA00 yes suitability for use safety switch Pres Insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value 1.5 kV protection class IP shock resistance • according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 machanical service life (operating cycles) typical thermal current 4 A reference code according to IEC 81346-2 B continuous current of the C characteristic MCB ontinuous current of the C characteristic MCB active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) SVHC substance name Bica - 7439-92-1 minimum actuating force in directions of actuation length of the sensor 40 mm Ambient conditions ambient temperature • during storage explosion protection category for dust design of the switching contact operating frequency rated value number of NG contacts for auxiliary contacts operational current at AC-15	product designation	Mechanical safety switches
of the supplied switching contacts suitability for use safety switch Pes General bechnical data product function positive opening Yes Insulation voltage rated value 125 V degree of pollution class 3 surge voltage resistance rated value 1.5 kV protection class IP shock resistance *according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 usording to IEC 60068-2-7 vibration resistance according to IEC 80068-2-6 mechanical service life (operating cycles) typical thermal current 4 A 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 pulcy DIAZED fuse link g active principle mechanical continuous current of the pulcy DIAZED fuse link g active principle mechanical prepeat accuracy 0.05 mm Substance Prohibitance (Date) SYHC substance name Biel - 7439-92-1 Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation length of the sensor 40 mm Ambient conditions ambient temperature 4 during operation 4 during storage 4 during storage 4 during storage 4 during force according to fuse 4 during force according to fuse 1 mechanical operating frequency rated value 50 60 Hz number of NG contacts for auxiliary contacts 1 number of NG contacts for auxiliary contacts 1 number of NG contacts for auxiliary contacts operational current at AC-15	product type designation	3SE5
suitability for use safety switch General technical data product function positive opening insulation voltage rated value degree of pollution class 3 surge voltage rosistance rated value 1.5 kV protection class IP shock resistance • according to IEC 60068-2-27 vibration resistance carding to IEC 60068-2-6 mechanical service life (operating cycles) typical thermal current 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 4 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link continuous current of the DIAZED fuse link gG active principle repeat accuracy 0.05 mm Substance Prohibitance (Date) SVHC substance Prohibitance (Date) SVHC substance and imidizability of the sensor 40 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 1 number of NC contacts for auxiliary contacts operational current at AC-15	manufacturer's article number	
Yes Insulation voltage rated value 125 V Gass 3 Insulation voltage rated value 125 V Gass 3 Insulation voltage rated value 1.5 kV Insulation voltage resistance rated value 1.5 kV Insulation resistance according to IEC 60068-2-7 30g / 11 ms 30g / 11	 of the supplied switching contacts 	3SE5000-0BA00
product function positive opening insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value 1.5 kV protection class IP shock resistance a according to IEC 60068-2-7 wibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical thermal current 4 A 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 4 A; for a short-circuit current smaller than 400 A continuous current of the plaZED fuse link gG active principle repeat accuracy 0.05 mm Substance Prohibitance (Date) 39.7 mm width of the sensor 40 mm Ambient conditions ambient temperature • during operation • during storage explosion protection category for dust design of the switching contact mechanical repeating frequency rated value design of the switching contact mechanical repeating frequency rated value design of the switching contact poperating frequency rated value for Contacts for auxiliary contacts operational current at AC-15	suitability for use safety switch	Yes
Insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value 1.5 kV 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 thermal current 4 A reference code according to IEC 81346-2 B continuous current of the C characteristic MCB continuous current of the QibazeD fuse link continuous current of the QibazeD fuse link gG active principle mechanical repeat accuracy 3.05 mm Substance Prohibitance (Date) SVHC substance name Blei - 7439-92-1 minimum actuating force in directions of actuation 20 N length of the sensor width of the sensor width of the sensor 40 mm Ambient conditions ambient temperature • during operation • during operation • during operation design of the switching contact mechanical mechanical mechanical peratic residual re	General technical data	
degree of pollution surge voltage resistance rated value 1.5 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 thermal current 4 A 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 4 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link gG 4 A active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 07/01/2006 SVHC substance Prohibitance (Date) 07/01/2006 SVHC substance name Biei - 7439-92-1 imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation 20 N length of the sensor 40 mm Ambient conditions 50 me 60 Hz number of NC contacts for auxiliary contacts 1 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 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical thermal current 4 A reference code according to IEC 81346-2 B 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 dA; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link gG active principle repeat accuracy 0.05 mm Substance Prohibitance (Date) SVHC substance name Biel - 7439-92-1 Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation length of the sensor 40 mm Ambient conditions ambient temperature of during operation - 25 +85 °C - 40 +90 °C explosion protection category for dust design of the switching contact operating frequency rated value 50 60 Hz number of NC contacts for auxillary contacts 1 operational current at AC-15	insulation voltage rated value	125 V
protection class IP shock resistance	degree of pollution	class 3
shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 nechanical service life (operating cycles) typical thermal current 4 A reference code according to IEC 81346-2 B continuous current of the C characteristic MCB continuous current of the Quick DIAZED fuse link 4 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link gG active principle repeat accuracy 0.05 mm Substance Prohibitance (Date) SYHC substance name Blei - 7439-92-1 Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature during operation during storage 40 +90 °C explosion protection category for dust none design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts poerational current at AC-15	surge voltage resistance rated value	1.5 kV
according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical thermal current reference code according to IEC 81346-2 B 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) SYHC substance name Blei - 7439-92-1 Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation length of the sensor y9.7 mm width of the sensor 40 mm Amblent conditions ambient temperature during operation 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	protection class IP	IP66/IP67
vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical thermal current 4 A 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 4 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link gG 4 A active principle repeat accuracy 0.05 mm Substance Prohibitance (Date) SVHC substance name Blei - 7439-92-1 Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation length of the sensor yidth of the sensor yidth of the sensor 40 mm Ambient conditions ambient temperature oduring operation -25 +85 °C -40 +90 °C explosion protection category for dust none design of the switching contact nome operating frequency rated value number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current at AC-15	shock resistance	
mechanical service life (operating cycles) typical thermal current 4 A reference code according to IEC 81346-2 B 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) 07/01/2006 SVHC substance name Blei - 7439-92-1 Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation length of the sensor yellow for the sensor 40 mm Ambient conditions ambient temperature during operation during storage explosion protection category for dust design of the switching contact none design of the switching contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current at AC-15	according to IEC 60068-2-27	30g / 11 ms
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 pulck DIAZED fuse link continuous current of the DIAZED fuse link gG active principle repeat accuracy Substance Prohibitance (Date) SYHC substance name Blei - 7439-92-1 Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature during operation churing storage churing storage churing storage churing contact operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 operational current at AC-15	vibration resistance according to IEC 60068-2-6	0.35 mm/5g
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 mechanical repeat accuracy Substance Prohibitance (Date) SVHC substance name Blei - 7439-92-1 Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature during operation during storage during operation design of the switching contact design of the switching contact perating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 operational current at AC-15	mechanical service life (operating cycles) typical	15 000 000
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 Substance Prohibitance (Date) SVHC substance name Biei - 7439-92-1 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 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	thermal current	4 A
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 Blei - 7439-92-1 Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature e during operation e during storage e-40 +90 °C 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 SVHC substance name Blei - 7439-92-1 Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation 20 N length of the sensor 99.7 mm width of the sensor 40 mm Ambient conditions ambient temperature	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 Blei - 7439-92-1 Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation 20 N length of the sensor 99.7 mm width of the sensor 40 mm Ambient conditions ambient temperature	continuous current of the quick DIAZED fuse link	4 A; for a short-circuit current smaller than 400 A
repeat accuracy Substance Prohibitance (Date) SVHC substance name Blei - 7439-92-1 Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation length of the sensor 99.7 mm width of the sensor 40 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	continuous current of the DIAZED fuse link gG	4 A
Substance Prohibitance (Date) SVHC substance name Blei - 7439-92-1 Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation 20 N length of the sensor 99.7 mm width of the sensor 40 mm Ambient conditions ambient temperature • during operation • during storage • during 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 number of NO contacts for auxiliary contacts operational current at AC-15	active principle	mechanical
SVHC substance name Blei - 7439-92-1 Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation 20 N length of the sensor 99.7 mm width of the sensor 40 mm Ambient conditions ambient temperature • during operation • during storage • during 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 number of NO contacts for auxiliary contacts operational current at AC-15	repeat accuracy	0.05 mm
Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation length of the sensor 99.7 mm width of the sensor 40 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
length of the sensor width of the sensor 40 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	SVHC substance name	
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	99.7 mm
ambient temperature	width of the sensor	40 mm
 during operation during 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 number of NO contacts for auxiliary contacts 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 1 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 4 A	operational current at AC-15	
	at 24 V rated value	4 A

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at 125 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	0.55 A		
Enclosure				
design of the housing	block, narrow			
material of the enclosure	metal			
coating of the enclosure	cathodic dip coating	cathodic dip coating		
design of the housing according to standard	Yes			
Drive Head				
design of the actuating element	Other, without, basic switch with plug			
shape of the switch head	rounded			
design of the switching function	Positive opening with appropriate positive opening actuator head			
circuit principle	slow-action contacts			
number of switching contacts safety-related	1			
cable entry type	M12 plug			
design of plug-in connection	M12 plug, 5-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14, Pin 5 = PU			
Installation/ mounting/ dimensions				
mounting position	any			
fastening method	screw fixing			
Connections/ Terminals				
type of electrical connection	M12 plug, fixed			
design of the interface for safety-related communication	without	without		
Communication/ Protocol				
design of the interface	without			
Certificates/ approvals				
General Product Approval		Functional Safety/Safety of Ma-		



Confirmation







Type Examination Certificate

chinery

Declaration of Conformity

Test Certificates

other





Type Test Certificates/Test Report Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

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=3SE5114-0BA00-1AC5

Cax online generator

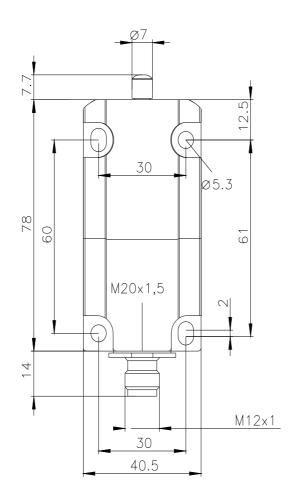
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5114-0BA00-1AC5

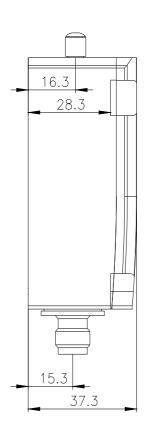
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

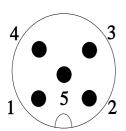
https://support.industry.siemens.com/cs/ww/en/ps/3SE5114-0BA00-1AC5

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

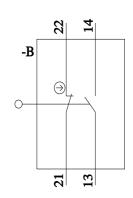
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5114-0BA00-1AC5&lang=en







1	BN = Brown	\rightarrow	21
2	WH = White	\rightarrow	22
3	BU = Blue	\rightarrow	13
4	BK = Black	\rightarrow	14
5	GN/YE = Green/Yellow	\rightarrow	(#)



last modified: 9/5/2023 🖸

