SIEMENS

Data sheet

3SE5114-0LA00-1AE1



Basic switch for position switch 3SE51 Metal enclosure 40 mm according to EN 50041 with M12 connector, 5-pole, fixed 1 NO/2 NC quick action contacts (2 NC and PE connected) Max. 125 V, 4 A

product designation product type designation so 555 manufacturer's article number of the supplied switching contacts suitability for use safety switch Product function positive opening product function fu	product brand name	SIRIUS
manufacturer's article number • of the supplied switching contacts suitability for use safety switch Yes General technical data 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 • according to IEC 60088-2-27 wibration resistance according to IEC 60088-2-6 mechanical service life (switching cycles) typical electrical endurance (switching cycles) with contactor 3RH11, 3RT1043, 3RT1025, 3RT1026 typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1014, 3RT1017, 3RT1024, 3RT1025, 3RT1026 shermal current 4 A 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 Unix Diazed fuse link gG active principle mechanical repeat accuracy Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor design of the switching contact operational current at AC-15 • at 24 V rated value 4 A 4 A 4 A	product designation	Mechanical safety switches
of the supplied switching contacts suitability for use safety switch Ceneral technical data product function positive opening 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	product type designation	3SE5
suitability for use safety switch General technical data product function positive opening insulation voitage rated value degree of pollution class 3 surge voitage 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 vibration resistance according to IEC 60068-2-7 vibra	manufacturer's article number	
product function positive opening insulation voltage rated value 125 V degree of pollution class IP stock resistance rated value 1.5 kV protection class IP IP66/IP67	 of the supplied switching contacts 	3SE5000-0LA00
product function positive opening insulation voltage rated value degree of pollution 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 0.35 mm/5g mechanical service life (switching cycles) typical electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025 typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025 Whermal current 4 A reference code according to IEC 81346-2 continuous current of the C characteristic MCB continuous current of the DIAZED fuse link gG active principle repeat accuracy 0.05 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts operating at 2 V rated value • at 24 V rated value 4 A continuous current at AC-15 • at 24 V rated value 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4	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 vibration resistance according to IEC 60068-2-6 mechanical service life (switching cycles) typical electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025 (typical) Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025 thermal current 4 A 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 g active principle mechanical repeat accuracy Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor design of the switching contact operating frequency rated value 10 000 000 000 000 000 000 000	General technical data	
degree of pollution surge voltage resistance rated value protection class IP protection class IP shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (switching cycles) typical electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 thermal current efference code according to IEC 81346-2 thermal 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 g active principle repeat accuracy Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts of at 24 V rated value 4 A Insert Profice (Sats 3 and 1) 1.5 kV 1.5 kV 1.5 kV 1.5 kV 1.5 kV 1.6 000 0.	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 (switching cycles) typical electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 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 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 design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts operating at 24 V rated value • at 24 V rated value 1.5 kV IP66/IP67 30g / 11 ms 30g / 12 ms 40000000 30g / 11 ms 30g / 10 0000 30 30	insulation voltage rated value	125 V
protection class IP shock resistance • according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (switching cycles) typical electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025 typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025 thermal current 4 A reference code according to IEC 81346-2 becontinuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link continuous current of the DIAZED fuse link dative principle repeat accuracy Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor width of the sensor design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts o at 24 V rated value 4 A on 30g / 11 ms 4 5000 000 6 000 6 000 3H 2 1 operational current at AC-15 • at 24 V rated value 4 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 (switching cycles) typical electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 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 DIAZED fuse link 4 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link G active principle mechanical repeat accuracy Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts operational current at AC-15 • at 24 V rated value 4 A 15 000 000 10 000 000 10 000 000 10 000 00	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 (switching cycles) typical electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 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 active principle repeat accuracy 0.05 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts operational current at AC-15 • at 24 V rated value 4 A	protection class IP	IP66/IP67
vibration resistance according to IEC 60068-2-6 mechanical service life (switching cycles) typical electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 thermal current 4 A reference code according to IEC 81346-2 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 Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor 40 mm design of the switching contact operating frequency rated value operational current at AC-15 • at 24 V rated value 0.35 mm/5g 16 000 000 4 A A A A A A A A A A A A A	shock resistance	
mechanical service life (switching cycles) typical electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025 typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 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 DIAZED fuse link gG active principle mechanical repeat accuracy Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts operational current at AC-15 • at 24 V rated value 4 A	• according to IEC 60068-2-27	30g / 11 ms
electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 thermal current	vibration resistance according to IEC 60068-2-6	0.35 mm/5g
3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 thermal current 4 A 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 yaction of the principle of the principle of the principle of the principle of the sensor of the switching contact operating frequency rated value of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts • at 24 V rated value	mechanical service life (switching cycles) typical	15 000 000
3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 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 decontinuous current of the DIAZED fuse link go active principle repeat accuracy Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts operational current at AC-15 • at 24 V rated value 4 A A 4 A 4 A 4 A 4 A 4 A	3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025,	10 000 000
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 gG active principle repeat accuracy Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts o at 24 V rated value at A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A continuous current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 6 A, for a short-circuit current smaller than 400 A 6 A, for a short-circuit current smaller than 400 A 6 Dia Substance Prohibitance (Date of A) 7 On Manual Substance Prohibitance (Date of A) 8 Dia Substance Prohibitance (Date of A) 9 On Manual Substance Pr	3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025,	6 000
continuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link continuous current of the 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 design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts operational current at AC-15 • at 24 V rated value 1 A; for a short-circuit current smaller than 400 A 4 A; for a short-circuit current smaller than 400 A 4 A; for a short-circuit current smaller than 400 A 4 A; for a short-circuit current smaller than 400 A 4 A; for a short-circuit current smaller than 400 A 4 A; for a short-circuit current smaller than 400 A 4 A; for a short-circuit current smaller than 400 A 4 A; for a short-circuit current smaller than 400 A 4 A; for a short-circuit current smaller than 400 A 4 A; for a short-circuit current smaller than 400 A 4 A 6 A; for a short-circuit current smaller than 400 A 4 A 6 A; for a short-circuit current smaller than 400 A 6 A; for a short-circuit current smaller than 400 A 6 A; for a short-circuit current smaller than 400 A 6 A; for a short-circuit current smaller than 400 A 6 A; for a short-circuit current smaller than 400 A 6 A; for a short-circuit current smaller than 400 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A	thermal current	4 A
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 design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts operational current at AC-15 • at 24 V rated value 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A, for a short-circuit current smaller than 400 A 4 A A in the short-circuit current smaller than 400 A 4 A A in the short-circuit current smaller than 400 A 4 A A in the short-circuit current smaller than 400 A 4 A A in the short-circuit current smaller than 400 A 4 A A in the short-circuit current smaller than 400 A A in the sh	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) minimum actuating force in directions of actuation length of the sensor 99.7 mm width of the sensor 40 mm 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 • at 24 V rated value 4 A	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 99.7 mm width of the sensor 40 mm design of the switching contact mechanical operating frequency rated value 50 60 Hz number of NC contacts for auxiliary contacts 2 number of NO contacts for auxiliary contacts 1 operational current at AC-15 • at 24 V rated value 4 A	continuous current of the quick DIAZED fuse link	4 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 width of the sensor design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts operational current at AC-15 • at 24 V rated value 0.05 mm 0.07/01/2006 07/01/2006 40 N Hom design of the sensor 40 mm mechanical 50 60 Hz 1	continuous current of the DIAZED fuse link gG	4 A
Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor 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 • at 24 V rated value 07/01/2006 20 N mechanical mechanical 50 60 Hz 1	active principle	mechanical
minimum actuating force in directions of actuation length of the sensor width of the sensor 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 • at 24 V rated value 20 N mechanical mechanical 50 60 Hz 1	repeat accuracy	0.05 mm
length of the sensor width of the sensor 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 • at 24 V rated value 99.7 mm mechanical 50 60 Hz 1	Substance Prohibitance (Date)	07/01/2006
width of the sensor 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 • at 24 V rated value 40 mm mechanical 50 60 Hz 1	minimum actuating force in directions of actuation	20 N
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 • at 24 V rated value mechanical mechanical 50 60 Hz 1	length of the sensor	99.7 mm
operating frequency rated value 50 60 Hz number of NC contacts for auxiliary contacts 2 number of NO contacts for auxiliary contacts 1 operational current at AC-15 • at 24 V rated value 4 A	width of the sensor	40 mm
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current at AC-15 • at 24 V rated value 4 A	design of the switching contact	mechanical
number of NO contacts for auxiliary contacts operational current at AC-15 • at 24 V rated value 4 A	operating frequency rated value	50 60 Hz
operational current at AC-15 • at 24 V rated value	number of NC contacts for auxiliary contacts	2
• at 24 V rated value 4 A	number of NO contacts for auxiliary contacts	1
	operational current at AC-15	
• at 125 V rated value 4 A	• at 24 V rated value	4 A
	 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
design of the interface for safety-related communication	without
Enclosure	
design of the housing	block, narrow
material of the enclosure	metal
coating of the enclosure	cathodic dip coating
design of the housing according to standard	Yes
Drive Head	
design of the actuating element	Other, without, basic switch with plug
design of the switching function	Positive opening with appropriate positive opening actuator head
circuit principle	snap-action contacts
number of switching contacts safety-related	2
Connections/ Terminals	
type of electrical connection	M12 plug, fixed
cable entry type	M12 plug
design of plug-in connection	M12 plug, 5-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 31, Pin 4 = 32, Pin 5 = PU
Communication/ Protocol	
design of the interface	without
Ambient conditions	
ambient temperature	
 during operation 	-25 +85 °C
during storage	40 +90 °C
explosion protection category for dust	none
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw fixing
Certificates/ approvals	



General Product Approval

Confirmation









Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

other

Type Examination Certificate





Type Test Certificates/Test Report

Confirmation

Further information

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=3SE5114-0LA00-1AE1

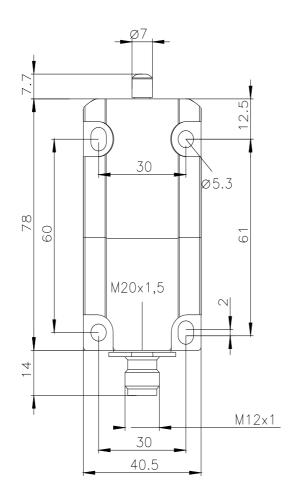
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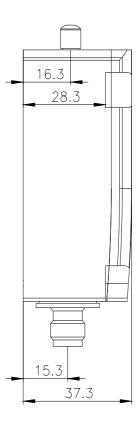
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5114-0LA00-1AE1&lang=en





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