SIEMENS

Data sheet

3SE5112-0KA00-1CA0



Basic switch with increased corrosion protection for position switch Metal enclosure, according to EN 50041 Device connection 1 x (M20 x 1.5) 1 NO/2 NC slow-action contacts without actuator head

product designation product type designation product type designation anufacturer's article number • of the supplied switching contacts • of the supplied empty enclosure with cover suitability for use safety switch • of the supplied empty enclosure with cover suitability for use safety switch Yes General technical data product function positive opening risulation voltage rated value degree of pollution class 3 surge voltage resistance rated value 6 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) typical electrical endurance (switching cycles) with contactor 3RH1, 3RT1017, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical Electrical operating cycles in one hour with contactor 3RH1, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical Electrical operating to IEC 81346-2 continuous current of the C characteristic MCB 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 design of the switching contact opperating frequency rated value 50 60 Hz number of NC contacts for auxiliary contacts 1	product brand name	SIRIUS
manufacturer's article number • of the supplied switching contacts • of the supplied switch yes suitability for use safety switch Yes insulation voltage rated value product function positive opening insulation voltage rated value degree of pollution surge voltage resistance rated value • 6 kV 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) at AC-15 at 230 V typical electrical endurance (switching cycles) with contactor 3RH11, 3RT1017, 3RT10124, 3RT1025, 3RT1026 typical electrical operating cycles in one hour with contactor 3RH11, 3RT1017, 3RT1017, 3RT1024, 3RT1025, 3RT1026 sthermal current reference code according to IEC 81346-2 continuous current of the C characteristic MCB continuous current of the C characteristic MCB 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 10 mumber of NO contacts for auxillary contacts 1 number of NO contacts for auxillary contacts 1 number of NO contacts for auxillary contacts 1 number of NO contacts for auxillary contacts 1	product designation	Mechanical safety switches
of the supplied empty enclosure with cover 3SE5102-0AA00-1CA0 vot the supplied empty enclosure with cover 3SE5112-0AA00-1CA0 yes Ceneral technical data product function positive opening	product type designation	3SE5
of the supplied empty enclosure with cover suitability for use safety switch Product function positive opening insulation voltage rated value degree of pollution surge voltage resistance rated value protection class IP shock resistance	manufacturer's article number	
suitability for use safety switch Ceneral technical data product function positive opening 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 yibration resistance according to IEC 60068-2-6 wibration resistance according to IEC 60068-2-6 yibration resistance according to IEC 60068-2-7 yibration resistance according to IEC 60068-2-7 yibration resistance according to IEC 60068-2-8 yibration resistance (switching cycles) typical electrical endurance (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 10 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 QIAZED fuse link 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 width of the sensor active principle requency rated value number of NC contacts for auxiliary contacts	 of the supplied switching contacts 	3SE5000-0KA00
General technical data product function positive opening insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value 6 kV protection class IP shock resistance a according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V 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 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 quick DIAZED fuse link 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 design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts 1 comber of NC contacts for auxiliary contacts 1 current surcents 1 continuous current of NC contacts for auxiliary contacts 1 current surcents 1 continuous current of the switching contacts 1 current surcents auxiliary contacts 1 current surcents auxiliary contacts 1 current surcents 1 current surcents auxiliary contacts 1 current surcents 1 current surcents auxiliary contacts 2 current of NC contacts for auxiliary contacts 1 current surcents 1 current surcents 1 current surcent surcents auxiliary contacts 2 current of NC contacts for auxiliary contacts	 of the supplied empty enclosure with cover 	3SE5112-0AA00-1CA0
product function positive opening insulation voltage rated value degree of pollution surge voltage resistance rated value protection class IP shock resistance • according to IEC 60068-2-27 vibration resistance coording to IEC 60068-2-6 mechanical service life (switching cycles) typical electrical endurance (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 typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024 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 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 Electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 Electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 Electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 Electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1024, 3RT1025, 3RT1026 Electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT102	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	General technical data	
degree of pollution surge voltage resistance rated value protection class IP protectio	product function positive opening	Yes
surge voltage resistance rated value protection class IP shock resistance	insulation voltage rated value	400 V
protection class IP shock resistance ● according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 electrical endurance (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V 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 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 number of NC contacts for auxiliary contacts 1 0 000 10 000 10 00 0	degree of pollution	class 3
shock resistance	surge voltage resistance rated value	6 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) at AC-15 at 230 V 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 Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 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 Quick DIAZED fuse link 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 design of the sensor design of the sensor design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1	protection class IP	IP66/IP67
vibration resistance according to IEC 60068-2-6 mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V 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 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 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 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 Electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 Electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 Electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1026, 3RT1026 Electrical endurance (switching cycles) with contacts one observed and one o	shock resistance	
mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V 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 10 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 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 10 000 10	according to IEC 60068-2-27	30g / 11 ms
electrical endurance (switching cycles) at AC-15 at 230 V 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 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 number of NC contacts for auxiliary contacts 10 000 10	vibration resistance according to IEC 60068-2-6	0.35 mm/5g
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 10 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 10 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link 20 G A active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 707/01/2006 minimum actuating force in directions of actuation 20 N length 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 1	mechanical service life (switching cycles) typical	15 000 000
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 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 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 1 0 0 10 A 1		100 000
3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 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 quick DIAZED fuse link 10 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link G 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 width of the sensor 40 mm design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts 1	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 plazed 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 width of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts 1 A; for a short-circuit current smaller than 400 A 1 A; f	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 plazed 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 width of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts 1 A; for a short-circuit current smaller than 400 A 10 A; for a short-ci	thermal current	10 A
continuous current of the quick DIAZED fuse link 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 1 10 A; for a short-circuit current smaller than 400 A 6 A 6 A 7 80 A 80	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 minimum actuating force in directions of actuation 20 N length of the sensor 85.7 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 1	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 85.7 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 1	continuous current of the quick DIAZED fuse link	10 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 number of NO contacts for auxiliary contacts 1	continuous current of the DIAZED fuse link gG	6 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 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 1	repeat accuracy	0.05 mm
length of the sensor 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 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 1	minimum actuating force in directions of actuation	20 N
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	length of the sensor	85.7 mm
operating frequency rated value 50 60 Hz number of NC contacts for auxiliary contacts 2 number of NO contacts for auxiliary contacts 1	width of the sensor	40 mm
number of NC contacts for auxiliary contacts 2 number of NO contacts for auxiliary contacts 1	design of the switching contact	mechanical
number of NO contacts for auxiliary contacts 1	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	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
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
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
design of the switching function	Positive opening with appropriate positive opening actuator head
circuit principle	slow-action contacts
number of switching contacts safety-related	2
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)
 at AWG cables solid 	1x (20 16), 2x (20 18)
at AWG cables stranded	1x (20 16), 2x (20 18)
cable entry type	1x (M20 x 1.5)
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=3SE5112-0KA00-1CA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5112-0KA00-1CA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3SE5112-0KA00-1CA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3SE5112-0KA00-1CA0&lang=en

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