## **SIEMENS**

Data sheet 3SE5000-0KA00



Switching element for position switch 3SE51/52 1 NO/2 NC slow-action contact

product type designation general technical data product function positive opening insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value e according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-27 vibration 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) 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 continuous current of the C characteristic MCB continuous current of the Quick DIAZED fuse link g continuous current of the Quick DIAZED fuse link g continuous current of the Quick DIAZED fuse link g continuous current of the Quick DIAZED fuse link g continuous current of the C characteristic MCB continuous current of the Quick DIAZED fuse link continuous current of the C data dive continuous current of the Quick DIAZED fuse link continuous current of th	product brand name	SIRIUS
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 protection class IP shock resistance • according to IEC 60068-2-27 30g / 11 ms  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) 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  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 0.1 mm Substance Prohibitance (Date) width of the sensor operating frequency rated value operational current at AC-15 at 240 V rated value at 400 V rated value at 400 V rated value at 440 V rated value	product designation	contact
product function positive opening insulation voltage rated value degree of pollution surge voltage resistance rated value fock resistance according to IEC 60068-2-27 substance 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 3RH1, 3RT1017, 3RT1024, 3RT1025, 3RT1026 Electrical operating cycles in one hour with contactor 3RH1, 3RT1017, 3RT1017, 3RT1024, 3RT1025, 3RT1026 Electrical operating cycles in one hour with contactor 3RH1, 3RT1017, 3RT1017, 3RT1024, 3RT1025, 3RT1026 Electrical operating cycles in one hour with contactor 3RH1, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 Electrical operating typical Electrical operating typical Electrical operating typical Electrical operating to IEC 81346-2 continuous current of the C characteristic MCB 10 A reference code according to IEC 81346-2 S continuous current of the C characteristic MCB 10 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link G Active principle mechanical repeat accuracy 0.1 mm Substance Prohibitance (Date) 07/01/2006 width of the sensor 0perating frequency rated value 10 A	product type designation	3SE5
Insulation voltage rated value  degree of pollution  class 3  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) 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  Scontinuous current of the C characteristic MCB  Active principle  continuous current of the DIAZED fuse link  continuous current of the DIAZED fuse link gG  active principle  repeat accuracy  0.1 mm  Substance Prohibitance (Date)  width of the sensor  operating frequency rated value  number of NC contacts for auxiliary contacts  operational current at AC-15  • at 24 V rated value  • at 400 V rated value  • at 400 V rated value  operational current at DC-13	General technical data	
degree of pollution  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) 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 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, 3RT1025, 3RT1026 typical  10 A  reference code according to IEC 81346-2  S  continuous current of the C characteristic MCB  1 A; for a short-circuit current smaller than 400 A  continuous current of the plick DIAZED fuse link to A; for a short-circuit current smaller than 400 A  continuous current of the DIAZED fuse link gG  6 A  active principle  repeat accuracy  0.1 mm  Substance Prohibitance (Date)  width of the sensor  25 mm  operating frequency rated value  50 60 Hz  number of NC contacts for auxiliary contacts  1  operational current at AC-15  • at 24 V rated value  • at 400 V rated value	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	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) 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  S  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  3.08 / 11 ms  3.09 / 11 ms  3.09 / 11 ms  3.09 / 11 ms  3.00 / 000  3.00 / 100 / 000  3.00 / 000	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  thermal current  10 A reference code according to IEC 81346-2 Scontinuous current of the C characteristic MCB continuous current of the Quick DIAZED fuse link continuous current of the DIAZED fuse link G active principle repeat accuracy 0.1 mm Substance Prohibitance (Date) width of the sensor operating frequency rated value number of NC contacts for auxiliary contacts 1 c A e at 24 V rated value 1 at 24 V rated value 1 at 400 V rated value	protection class IP	IP00
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  continuous current of the Quick DIAZED fuse link continuous current of the DIAZED fuse link gG  active principle  mechanical repeat accuracy  3.1 mm  Substance Prohibitance (Date)  width of the sensor operating frequency rated value  • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 400 V rated value	shock 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, 3RT1024, 3RT1025, 3RT1026 typical     Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026     thermal current	according to IEC 60068-2-27	30g / 11 ms
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  continuous current of the quick DIAZED fuse link  continuous current of the plick DIAZED fuse link  continuous current of the DIAZED fuse link gG  active principle  repeat accuracy  0.1 mm  Substance Prohibitance (Date)  width of the sensor  operating frequency rated value  10 A0  10 000 000  10 000 000  10 000 000  10 000 00	vibration resistance	
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 plick DIAZED fuse link gG active principle repeat accuracy 0.1 mm Substance Prohibitance (Date) width of the sensor operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1000000 10000000000000000000000000000	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  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  3ubstance Prohibitance (Date)  width of the sensor  operating frequency rated value  number of NC contacts for auxilliary contacts  number of NO contacts for auxilliary contacts  operational current at AC-15  • at 24 V rated value  • at 125 V rated value  • at 240 V rated value  • at 400 V rated value	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  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  3.1 mm  Substance Prohibitance (Date)  width of the sensor  operating frequency rated value  number of NC contacts for auxiliary contacts  operational current at AC-15  • at 24 V rated value  • at 125 V rated value  • at 240 V rated value  • at 240 V rated value  • at 400 V rated value  • at 900 Contacts for auxiliary contacts  • at 400 V rated value  • at 900 Contacts for auxiliary contacts  • at 400 V rated value		100 000
3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  thermal current  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  0.1 mm  Substance Prohibitance (Date)  width of the sensor  operating frequency rated value  number of NC contacts for auxiliary contacts  operational current at AC-15  • at 24 V rated value  • at 240 V rated value  • at 400 V rated value  • at 400 V rated value  operational current at DC-13	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 paick DIAZED fuse link  continuous current of the DIAZED fuse link gG  active principle  repeat accuracy  0.1 mm  Substance Prohibitance (Date)  width of the sensor  operating frequency rated value  number of NC contacts for auxiliary contacts  operational current at AC-15  at 24 V rated value  at 240 V rated value  at 400 V rated value  at 400 V rated value  operational current at DC-13	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 gG  active principle  repeat accuracy  Substance Prohibitance (Date)  width of the sensor  operating frequency rated value  number of NC contacts for auxiliary contacts  operational current at AC-15  • at 24 V rated value • at 125 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value  operational current at DC-13	thermal current	10 A
continuous current of the quick DIAZED fuse link  continuous current of the DIAZED fuse link gG  active principle  repeat accuracy  Substance Prohibitance (Date)  width of the sensor  operating frequency rated value  number of NC contacts for auxiliary contacts  operational current at AC-15  • at 24 V rated value  • at 125 V rated value  • at 240 V rated value  • at 400 V rated value  • at 400 V rated value  operational current at DC-13	reference code according to IEC 81346-2	S
continuous current of the DIAZED fuse link gG  active principle  repeat accuracy  0.1 mm  Substance Prohibitance (Date)  width of the sensor  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  • at 125 V rated value  • at 240 V rated value  • at 400 V rated value  • at 400 V rated value  operational current at DC-13	continuous current of the C characteristic MCB	1 A; for a short-circuit current smaller than 400 A
active principle mechanical repeat accuracy 0.1 mm  Substance Prohibitance (Date) 07/01/2006 width of the sensor 25 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 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	continuous current of the quick DIAZED fuse link	10 A; for a short-circuit current smaller than 400 A
repeat accuracy  Substance Prohibitance (Date)  width of the sensor  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  • at 125 V rated value  • at 240 V rated value  • at 240 V rated value  • at 400 V rated value  • at 400 V rated value  operational current at DC-13	continuous current of the DIAZED fuse link gG	6 A
Substance Prohibitance (Date)  width of the sensor  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  • at 125 V rated value  • at 240 V rated value  • at 240 V rated value  • at 400 V rated value	active principle	mechanical
width of the sensor 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 • at 125 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value  operational current at DC-13	repeat accuracy	0.1 mm
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  • at 125 V rated value  • at 240 V rated value  • at 240 V rated value  • at 400 V rated value  • at 400 V rated value  operational current at DC-13	Substance Prohibitance (Date)	07/01/2006
number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  operational current at AC-15  o at 24 V rated value  o at 125 V rated value  o at 240 V rated value  o at 240 V rated value  o at 400 V rated value  operational current at DC-13	width of the sensor	25 mm
number of NO contacts for auxiliary contacts  operational current at AC-15  o at 24 V rated value o at 125 V rated value o at 240 V rated value o at 240 V rated value o at 400 V rated value operational current at DC-13	operating frequency rated value	50 60 Hz
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	number of NC contacts for auxiliary contacts	2
<ul> <li>at 24 V rated value</li> <li>at 125 V rated value</li> <li>at 240 V rated value</li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>4 A</li> </ul> Operational current at DC-13	number of NO contacts for auxiliary contacts	1
<ul> <li>at 125 V rated value</li> <li>at 240 V rated value</li> <li>at 400 V rated value</li> <li>4 A</li> <li>operational current at DC-13</li> </ul>	operational current at AC-15	
• at 240 V rated value 6 A • at 400 V rated value 4 A  operational current at DC-13	• at 24 V rated value	6 A
• at 400 V rated value 4 A  operational current at DC-13	• at 125 V rated value	6 A
operational current at DC-13	• at 240 V rated value	6 A
	at 400 V rated value	4 A
• at 24 V rated value 3 A	operational current at DC-13	
	at 24 V rated value	3 A

<ul> <li>at 125 V rated value</li> </ul>	0.55 A
<ul> <li>at 250 V rated value</li> </ul>	0.27 A
at 400 V rated value	0.12 A
design of the interface for safety-related communication	without
Enclosure	
coating of the enclosure	Other types
Drive Head	
design of the switching function	positive opening
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)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)
<ul> <li>at AWG cables solid</li> </ul>	1x (20 16), 2x (20 18)
<ul> <li>at AWG cables stranded</li> </ul>	1x (20 16), 2x (20 18)
Communication/ Protocol	
design of the interface	without
Ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +85 °C
during storage	-40 +90 °C
explosion protection category for dust	none
Installation/ mounting/ dimensions	
mounting position	any
fastening method	snap-on mounting
Certificates/ approvals	
General Product Approval	





Confirmation



<u>KC</u>



General Product Approval Declaration of Conformity Test Certificates other







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=3SE5000-0KA00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5000-0KA00

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

https://support.industry.siemens.com/cs/ww/en/ps/3SE5000-0KA00

last modified: 12/21/2020 🖸