## **SIEMENS**

Data sheet 3SE5112-0BH02



Position switch Metal enclosure 40 mm according to EN 50041 Device connection 1x (M20 x 1.5) 1 NO/1 NC slow-action contacts Rotary actuator right/left adjustable, Metal lever 27 mm long and stainless steel roller 19 mm

product type designation product type designation of the supplied basic switch of the supplied basic switch of the supplied basic switch of the supplied pactuator head for position switches of the supplied actuator head for position switches of the supplied actuator head for position switches of the supplied switching contacts of the supplied switching contacts of the supplied empty enclosure with cover suitability for use safety switch Yes  Ceneral sechnical data product function positive opening insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value degree of pollution class 3 surge voltage resistance rated value of kV protection class IP IP66I/P67 shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service Iffe (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical thermal current 10 A material of the enclosure of the switch head reference code according to IEC 81346-2 B continuous current of the Quick DIAZED fuse link continuous current of the Characteristic MCB 1 A; for a short-circuit current smaller than 400 A continuous current of the OLAZED fuse link gO active principle mechanical substance Prohibitance (Data) minimum actuating torque in directions of actuation 0.25 N·m length of the sensor 40 mm Ambient conditions ambient temperature during storage 40 uring design of the switching contact  design of the switching contact	product brand name	SIRIUS
manufacturer's article number  • of the supplied basic switch  • of the supplied declarator head for position switches  • of the supplied actuator head for position switches  • of the supplied switching contacts  • of the supplied switching contacts  • of the supplied empty enclosure with cover  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  • (a 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  material of the enclosure of the switch head  reference code according to IEC 81346-2  continuous current of the C characteristic MCB  active principle  repeat accuracy  Substance Prohibitance (Date)  minimum actuating torque in directions of actuation  length of the sensor  width of the sensor  40 ump  40 um  Ambient conditions  ambient temperature  • during operation  • during operation  • during operation  • during storage  • affective for dust  or the sensor  violes of the switch in a conditions  and the sensor of the during operation  • during storage  • during operation  • during operation  • during storage	product designation	Mechanical position switches
of the supplied actuator head for position switches     of the supplied actuator head for position switches     of the supplied scheduling lever     of the supplied switching contacts     of the supplied empty enclosure with cover     of the supplied switching contacts     of the supplied empty enclosure with cover     of the supplied switching contacts     of the supplied empty enclosure with cover     of the supplied switching contacts     of the supplied empty enclosure with cover     of the supplied switching contacts     of the supplied empty enclosure of the switch of the contact of the switch enclosure of the switch head plasts     reference code according to IEC 81346-2     ontinuous current of the original contact of the switch head plasts     reference code according to IEC 81346-2     ontinuous current of the Characteristit MCB     1 A; for a short-circuit current smaller than 400 A     continuous current of the DIAZED fuse link of A     active principle mechanical     repeat accuracy     O.05 mm     Substance Prohibitance (Date) minimum actuating torque in directions of actuation on 2.25 m/m     length of the sensor duminacture of the sensor duminacture of the sensor duminacture of the continuous current of the continuous of actuation on the sensor duminacture of the sensor duminacture o	product type designation	3SE5
of the supplied actuator head for position switches     of the supplied operating lever     of the supplied operating lever     of the supplied operating contacts     of the supplied whiching contacts     of the supplied contacts     of the supplied whiching contacts     of the supplied contacts     of	manufacturer's article number	
of the supplied operating lever     of the supplied switching contacts     of the supplied empty enclosure with cover     sustability for use safety switch     respectively switch	<ul> <li>of the supplied basic switch</li> </ul>	3SE5112-0BA00
of the supplied empty enclosure with cover 35E5112-0AA00     suitability for use safety switch Yes  General technical data  product function positive opening Yes insulation voltage rated value 400 V degree of pollution class 3 surge voltage resistance rated value 6 kV  protection class IP IP66/IP67  shock resistance     *according to IEC 60068-2-7 30g / 11 ms  vibration resistance according to IEC 60068-2-6 0.35 mm/5g mechanical service life (operating cycles) typical 15 000 000 electrical endurance (operating cycles) typical 100 000  thermal current 10 A material of the enclosure of the switch head plastic 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 gG 6 A active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 07/01/2006 minimum actuating torque in directions of actuation 0.25 N·m length of the sensor 127.5 mm width of the sensor 40 mm  Ambient conditions  ambient temperature  • during operation -25 +85 °C  • during storage -40 +90 °C  explosion protection category for dust	<ul> <li>of the supplied actuator head for position switches</li> </ul>	3SE5000-0AH00
of the supplied empty enclosure with cover     suitability for use safety switch     Ceneral technical data     product function positive opening	<ul> <li>of the supplied operating lever</li> </ul>	3SE5000-0AA02
suitability for use safety switch  Ceneral technical data  product function positive opening	<ul> <li>of the supplied switching contacts</li> </ul>	3SE5000-0BA00
Product function positive opening	<ul> <li>of the supplied empty enclosure with cover</li> </ul>	3SE5112-0AA00
product function positive opening Yes  insulation voltage rated value 400 V  degree of pollution class 3  surge voltage resistance rated value 6 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  electrical endurance (operating cycles) at AC-15 at 230 V  typical 100 A  material of the enclosure of the switch head plastic  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 DIAZED fuse link G 6 A  active principle mechanical  repeat accuracy 0.05 mm  Substance Prohibitance (Date) 07/01/2006  minimum actuating torque in directions of actuation 0.25 Nm  vidth of the sensor 40 mm  Ambient conditions  ambient temperature  • during operation -25 +85 °C  • during storage -40 +90 °C  explosion protection category for dust	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 30g / 11 ms  vibration resistance according to IEC 60068-2-6 0.35 mm/5g mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current 10 A material of the enclosure of the switch head plastic 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 duick DIAZED fuse link continuous current of the DIAZED fuse link gG active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) minimum actuating torque in directions of actuation length of the sensor 40 mm  Ambient conditions ambient temperature e during operation e during storage explosion protection category for dust	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 (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical  thermal current  10 A  material of the enclosure of the switch head plastic 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 DIAZED fuse link 10 A; for a short-circuit current smaller than 400 A  continuous current of the DIAZED fuse link 0 0.05 mm  substance Prohibitance (Date) minimum actuating torque in directions of actuation length of the sensor  40 mm  Ambient conditions  ambient temperature  • during operation • during storage explosion protection category for dust	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  electrical endurance (operating cycles) at AC-15 at 230 V  typical  thermal current  naterial of the enclosure of the switch head  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 (10 A; for a short-circuit current smaller than 400 A)  continuous current of the DIAZED fuse link (10 A; for a short-circuit current smaller than 400 A)  continuous current of the DIAZED fuse link (10 A; for a short-circuit current smaller than 400 A)  continuous current of the DIAZED fuse link (10 A; for a short-circuit current smaller than 400 A)  continuous current of the DIAZED fuse link (10 A; for a short-circuit current smaller than 400 A)  continuous current of the DIAZED fuse link (10 A; for a short-circuit current smaller than 400 A)  continuous current of the DIAZED fuse link (10 A; for a short-circuit current smaller than 400 A)  continuous current of the DIAZED fuse link (10 A; for a short-circuit current smaller than 400 A)  continuous current of the DIAZED fuse link (10 A; for a short-circuit current smaller than 400 A)  continuous current of the DIAZED fuse link (10 A; for a short-circuit current smaller than 400 A)  continuous current of the DIAZED fuse link (10 A; for a short-circuit current smaller than 400 A)  continuous current of the DIAZED fuse link (10 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 Quick DIAZED fuse link (10 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 Quick DIAZED fuse link (10 A; for a short-	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  mechanical service life (operating cycles) typical  electrical endurance (operating cycles) at AC-15 at 230 V typical  thermal current  10 A  material of the enclosure of the switch head  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  10 A; for a short-circuit current smaller than 400 A  continuous current of the DIAZED fuse link  10 A; for a short-circuit current smaller than 400 A  continuous current of the DIAZED fuse link G  6 A  active principle  mechanical  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  minimum actuating torque in directions of actuation  0.25 N·m  length of the sensor  40 mm  Amblent conditions  amblent temperature  • during operation  • during storage  • during storage  • during storage  explosion protection category for dust	degree of pollution	class 3
shock resistance  according to IEC 60068-2-27  vibration resistance according to IEC 60068-2-6  mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical  thermal current  10 A  material of the enclosure of the switch head plastic 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 mechanical repeat accuracy 0.05 mm  Substance Prohibitance (Date) minimum actuating torque in directions of actuation length of the sensor 40 mm  Ambient conditions ambient temperature during operation -25 +85 °C during storage explosion protection category for dust	surge voltage resistance rated value	6 kV
* according to IEC 60068-2-27     *vibration resistance according to IEC 60068-2-6     *mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current     *thermal current     *material of the enclosure of the switch head 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 DIAZED fuse link     *continuous current of the DIAZED fuse link gG     *active principle     *repeat accuracy     *substance Prohibitance (Date)     *minimum actuating torque in directions of actuation length of the sensor width of the sensor width of the sensor  **Ambient conditions  **ambient temperature     **during operation     **condition category for dust  **pred accuracy for dust  **according to IEC 60068-2-6  **100 000  **100 000  **100 000  **100 000  **100 000  **100 000  **100 000  **100 000  **100 000  **100 000  **plastic  *	protection class IP	IP66/IP67
vibration resistance according to IEC 60068-2-6  mechanical service life (operating cycles) typical  electrical endurance (operating cycles) at AC-15 at 230 V typical  thermal current  material of the enclosure of the switch head  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  continuous current of the DIAZED fuse link of Active principle  repeat accuracy  Substance Prohibitance (Date)  minimum actuating torque in directions of actuation  length of the sensor  width of the sensor  width of the sensor  40 mm  Ambient conditions  amblent temperature  • during operation  • during storage  explosion protection category for dust	shock resistance	
mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current 10 A material of the enclosure of the switch head 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 6 A active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) minimum actuating torque in directions of actuation length of the sensor 40 mm  Ambient conditions ambient temperature e during operation explosion protection category for dust	• according to IEC 60068-2-27	30g / 11 ms
electrical endurance (operating cycles) at AC-15 at 230 V typical  thermal current  material of the enclosure of the switch head  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  6 A  active principle  repeat accuracy  Substance Prohibitance (Date)  minimum actuating torque in directions of actuation  length of the sensor  width of the sensor  40 mm  Ambient conditions  ambient temperature  • during operation  • during storage  explosion protection category for dust	vibration resistance according to IEC 60068-2-6	0.35 mm/5g
thermal current  thermal current  material of the enclosure of the switch head  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 torque in directions of actuation length of the sensor  width of the sensor  width of the sensor  ambient temperature  o during operation  o during storage  explosion protection category for dust  10 A  plastic	mechanical service life (operating cycles) typical	15 000 000
material of the enclosure of the switch head 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 continuous current of the DIAZED fuse link gG active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) minimum actuating torque in directions of actuation length of the sensor width of the sensor 40 mm  Ambient conditions ambient temperature o during operation other in the sensor of the switch head plastic plasti	· · · · · · · · · · · · · · · · · · ·	100 000
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  continuous current of the DIAZED fuse link gG  active principle  repeat accuracy  Substance Prohibitance (Date)  minimum actuating torque in directions of actuation  length of the sensor  width of the sensor  40 mm  Ambient conditions  ambient temperature  • during operation  • during storage  explosion protection category for dust  none	thermal current	10 A
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)  minimum actuating torque in directions of actuation  length of the sensor  width of the sensor  40 mm  Ambient conditions  ambient temperature  • during operation  -25 +85 °C  -40 +90 °C  explosion protection category for dust	material of the enclosure of the switch head	plastic
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 torque in directions of actuation  length of the sensor  width of the sensor  width of the sensor  40 mm  Ambient conditions  ambient temperature  • during operation  • during storage  • during storage  explosion protection category for dust  10 A; for a short-circuit current smaller than 400 A  6 A  Amechanical  77/01/2006  90/07/1/2006  90/07	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 torque in directions of actuation 0.25 N·m  length of the sensor 127.5 mm width of the sensor 40 mm  Ambient conditions  ambient temperature  • during operation -25 +85 °C  • during storage -40 +90 °C  explosion protection category for dust	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 torque in directions of actuation 0.25 N·m length of the sensor 127.5 mm width of the sensor 40 mm  Ambient conditions  ambient temperature  • during operation -25 +85 °C • during storage -40 +90 °C explosion protection category for dust	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 torque in directions of actuation  length of the sensor  width of the sensor  40 mm  Ambient conditions  ambient temperature  • during operation  • during storage  explosion protection category for dust  0.05 mm  07/01/2006  0.25 N·m  40 mm  40 mm	continuous current of the DIAZED fuse link gG	6 A
Substance Prohibitance (Date) minimum actuating torque in directions of actuation  length of the sensor  width of the sensor  40 mm  Ambient conditions  ambient temperature  o during operation -25 +85 °C other during storage -40 +90 °C explosion protection category for dust	active principle	mechanical
minimum actuating torque in directions of actuation  length of the sensor  127.5 mm  width of the sensor  40 mm  Ambient conditions  ambient temperature  • during operation  • during storage  explosion protection category for dust  0.25 N·m  127.5 mm  40 mm  40 mm	repeat accuracy	0.05 mm
length of the sensor  width of the sensor  40 mm  Ambient conditions  ambient temperature  • during operation • during storage • during storage  explosion protection category for dust  127.5 mm  40 mm  -25 +85 °C  -40 +90 °C	Substance Prohibitance (Date)	07/01/2006
width of the sensor  Ambient conditions  ambient temperature  • during operation  • during storage  • during storage  • ambient temperature  • ouring operation  • conditions  -25 +85 °C  -40 +90 °C  explosion protection category for dust	minimum actuating torque in directions of actuation	0.25 N·m
Ambient conditions  ambient temperature  • during operation • during storage • during storage  explosion protection category for dust  -25 +85 °C  -40 +90 °C  explosion protection category for dust	length of the sensor	127.5 mm
ambient temperature  • during operation  -25 +85 °C  • during storage  -40 +90 °C  explosion protection category for dust  none	width of the sensor	40 mm
<ul> <li>during operation</li> <li>-25 +85 °C</li> <li>during storage</li> <li>-40 +90 °C</li> <li>explosion protection category for dust</li> <li>none</li> </ul>	Ambient conditions	
● during storage -40 +90 °C explosion protection category for dust none	ambient temperature	
explosion protection category for dust none	during operation	-25 +85 °C
	during storage	-40 +90 °C
design of the switching contact mechanical	explosion protection category for dust	none
	design of the switching contact	mechanical

operating frequency rated value	50 60 Hz		
number of NC contacts for auxiliary contacts	1		
number of 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	6 A	
• at 240 V rated value	6 A	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	0.55 A	
• at 250 V rated value	0.27 A	0.27 A	
• at 400 V rated value	0.12 A		
Enclosure			
design of the housing	block, narrow		
material of the enclosure	metal	metal	
coating of the enclosure	cathodic dip coating		
design of the housing according to standard	Yes		
Drive Head			
design of the actuating element	Twist lever, metal lever, 27 mm long, step 9 mm, high-grade steel roller 19 mm		
standard-compliant actuator head	EN 50041, design A		
shape of the switch head	roller		
design of the switching function	positive opening		
circuit principle	slow-action contacts		
number of switching contacts safety-related	1		
cable entry type	1x (M20 x 1.5)		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	screw fixing		
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>for AWG cables solid</li> </ul>	1x (20 16), 2x (20 18)		
<ul> <li>for AWG cables stranded</li> </ul>	1x (20 16), 2x (20 18)		
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- chinery	



Confirmation







Type Examination Certificate

**Declaration of Conformity** 

**Test Certificates** 

other





Type Test Certificates/Test Report

Confirmation

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

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=3SE5112-0BH02

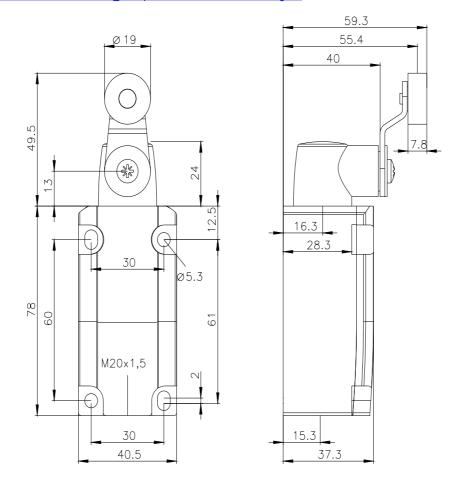
Cax online generator

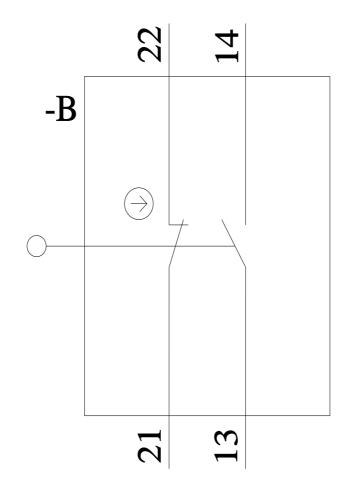
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5112-0BH02

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

https://support.industry.siemens.com/cs/ww/en/ps/3SE5112-0BH02

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SE5112-0BH02&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SE5112-0BH02&lang=en</a>





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