## **SIEMENS**

Data sheet 3SE5242-0HC05



position switch plastic enclosure 50 mm, device connection 2 x (M20 x 1.5) 1 NO/1 NC integrated (not replaceable) quick-action contacts, rounded plunger

product type designation SSE5 Sublability 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 degree of pollution protection class IP IP66/IP67 shock resistance according to IEC 80088-2-27 30g / 11 ms Vibration resistance according to IEC 80088-2-27 30g / 11 ms Vibration resistance according to IEC 80088-2-6 mechanical service IIfe (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 Quick DIAZED fuse link 10 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link gG active principle mechanical mechanical properation  width of the sensor 40.05 mm  Ambient conditions ambient temperature during operation design of the switching contact operating frequency rated value for the contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 care AF	product brand name	SIRIUS
suitability for use safety switch  General technical data  product function positive opening Insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value ### Protection class IP ### Protection class IP ### Protection class IP ### Shock resistance ### according to IEC 60068-2-27 ### Vibration resistance ### according to IEC 60068-2-27 ### 30g / 11 ms ### vibration resistance ### according to IEC 60068-2-27 ### 30g / 11 ms ### vibration resistance ### according to IEC 60068-2-8 ### accordi	product designation	Mechanical position switches
General technical data product function positive opening product function positive opening insulation voltage rated value  degree of poliution 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 (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 11 A; for a short-circuit current smaller than 400 A continuous current of the QIAZED 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 50 mm Ambient temperature during operation e during storage explosion protection category for dust design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts operational current at AC-15 operational current of the maxiliary contacts operational current at AC-15 oper	product type designation	3SE5
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 * according to IEC 60068-2-27 30g / 11 ms vibration resistance * according to IEC 60068-2-6	suitability for use safety switch	Yes
Insulation voltage rated value degree of poliution 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 60068-2-27 30g / 11 ms 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 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 active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor 60.7 mm width of the sensor 40 +90 °C who is a short circuit current accurated and in the sensor during storage explosion protection category for dust design of the switching contact mechanical repeataing frequency rated value 50 60 Hz number of NC contacts for auxiliary contacts 1 unumber of NC contacts for auxiliary contacts 1 operational current at AC-15	General technical data	
degree of pollution  surge voltage resistance rated value  6 kV  protection class IP  1P66/IP67  shock resistance  • according to IEC 60068-2-27  30g / 11 ms  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  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 G  6 A  active principle  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  minimum actuating force in directions of actuation  length of the sensor  Ambient conditions  ambient temperature  • during operation  • during storage  explosion protection category for dust  design of the switching contact  mechanical  operating frequency rated value  number of NC contacts for auxiliary contacts  operational current at AC-15	product function positive opening	Yes
surge voltage resistance rated value  protection class IP  shock resistance  * according to IEC 60068-2-7  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  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  continuous current of the DIAZED fuse link gG  6 A  active principle  mechanical  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  minimum actuating force in directions of actuation  20 N  length of the sensor  width of the sensor  width of the sensor  40+90 °C  explosion protection category for dust  design of the switching contact  mechanical  operating frequency rated value  6 060 Hz  number of NC contacts for auxiliary contacts  operational current a AC-15	insulation voltage rated value	400 V
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 20 100 000  typical 30	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) 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  continuous current of the quick DIAZED fuse link  continuous current of the pliAZED fuse link  continuous current of the DIAZED fuse link of Active principle  repeat accuracy  Substance Prohibitance (Date)  minimum actuating force in directions of actuation  length of the sensor  width of the sensor  Ambient conditions  ambient temperature  during operation  during or auxiliary contact  operating frequency rated value  sound according to IEC 80088-2-8  15 00 0000  15 00000000000000000000000	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  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 gG 6 A  active principle mechanical repeat accuracy 0.05 mm  Substance Prohibitance (Date) 07/01/2006 minimum actuating force in directions of actuation 10 A; for a short-circuit current smaller than 400 A  continuous current of the pulck DIAZED fuse link gG 6 A  active principle mechanical repeat accuracy 0.05 mm  Substance Prohibitance (Date) 07/01/2006 minimum actuating force in directions of actuation 10 A  mechanical 10 A  11 A; for a short-circuit current smaller than 400 A  12 A; for a short-circuit current smaller than 400 A  13 C; main and a short-circuit current smaller than 400 A  14 C; main and a short-circuit current smaller than 400 A  15 A; for a short-circuit current smaller than 400 A  16 A; for a short-circuit current smaller than 400 A  17 C; main and a 400 A  18 C; main and a 400 A  19 A; for a short-circuit current smaller than 400 A  20 N; mechanical  20 N; mechanical 20 N; mech	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  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 gG  6 A  active principle  mechanical  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  07/01/2006  minimum actuating force in directions of actuation  length of the sensor  width of the sensor  so mm  Ambient conditions  ambient temperature  during operation  -25 +85 °C  40 +90 °C  explosion protection category for dust  none  design of the switching contact  operating frequency rated value  1 mumber of NC contacts for auxiliary contacts  1 number of NC contacts for auxiliary contacts  1 operational current at AC-15	shock 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 gG 6 A  active principle mechanical repeat accuracy 0.05 mm  Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor 60.7 mm width of the sensor width of the sensor 50 mm  Ambient conditions  ambient temperature during operation during storage 40 +90 °C explosion protection category for dust design of the switching contact poperating frequency rated value number of NC contacts for auxillary contacts 1 number of NO contacts for auxillary contacts 1 operational current at AC-15	<ul> <li>according to IEC 60068-2-27</li> </ul>	30g / 11 ms
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 quick DIAZED fuse link 10 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link BG 6 A 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 60.7 mm width of the sensor 50 mm  Ambient conditions ambient temperature during operation during storage 40 +90 °C explosion protection category for dust none design of the switching contact none design of the switching contact nome of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current at AC-15	vibration resistance	
electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current  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 0A; 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 force in directions of actuation 20 N length of the sensor width of the sensor 60.7 mm width of the sensor 50 mm  Ambient conditions ambient temperature • during operation • during operation • 25 +85 °C • during storage  explosion protection category for dust design of the switching contact operating frequency rated value none design of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 operational current at AC-15	<ul><li>according to IEC 60068-2-6</li></ul>	0.35 mm/5g
thermal current 10 A 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 force in directions of actuation 20 N length of the sensor 60.7 mm width of the sensor 50 mm  Ambient conditions  ambient temperature during operation 25 +85 °C 40 +90 °C 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	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 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) minimum actuating force in directions of actuation length of the sensor width of the sensor 60.7 mm width of the sensor 50 mm  Ambient conditions ambient temperature during operation -25 +85 °C during storage -40 +90 °C eduring storage design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current at AC-15		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 force in directions of actuation  length of the sensor  width of the sensor  during operation  during storage  eduring storage  explosion protection category for dust  design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  operational current at AC-15	thermal current	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  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  minimum actuating force in directions of actuation  length of the sensor  width of the sensor  40.07 mm  width of the sensor  40.07 mm  width of the sensor  40.07 mm  width of the sensor  40 uring operation  40 uring storage  40 uring frequency rated value  none  design of the switching contact  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  poperational current at AC-15	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  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  minimum actuating force in directions of actuation  length of the sensor  width of the sensor  multiple during operation  during storage  explosion protection category for dust  design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  operational current at AC-15	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 60.7 mm width of the sensor 50 mm  Ambient conditions  ambient temperature  • during operation -25 +85 °C • during storage -40 +90 °C 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	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 60.7 mm width of the sensor 50 mm  Ambient conditions ambient temperature	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  Ambient conditions  ambient temperature  • during operation • during storage  explosion protection category for dust  design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  operational current at AC-15	continuous current of the DIAZED fuse link gG	6 A
Substance Prohibitance (Date)  minimum actuating force in directions of actuation  length of the sensor  60.7 mm  width of the sensor  50 mm  Ambient conditions  ambient temperature  • during operation  • during storage  • aduring storage  explosion protection category for dust  design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  operational current at AC-15	active principle	mechanical
minimum actuating force in directions of actuation  length of the sensor  60.7 mm  width of the sensor  50 mm  Ambient conditions  ambient temperature  • during operation  • during storage  explosion protection category for dust  design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  operational current at AC-15	repeat accuracy	0.05 mm
length of the sensor  width of the sensor  50 mm  Ambient conditions  ambient temperature  • during operation  • during storage  • during storage  explosion protection category for dust  design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  operational current at AC-15	Substance Prohibitance (Date)	07/01/2006
width of the sensor  Ambient conditions  ambient temperature  • during operation  • during storage  explosion protection category for dust design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current at AC-15	minimum actuating force in directions of actuation	20 N
Ambient conditions  ambient temperature  • during operation  • during storage  • during storage  • an explosion protection category for dust  design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  operational current at AC-15	length of the sensor	60.7 mm
ambient temperature  • during operation  • during storage  • during storage  • adving storage  • during storage  • adving storage  • advin	width of the sensor	50 mm
● during operation     ● during storage     ● during storage     ←40 +90 °C  explosion protection category for dust     none  design of the switching contact     mechanical     operating frequency rated value     number of NC contacts for auxiliary contacts     number of NO contacts for auxiliary contacts     operational current at AC-15   -25 +85 °C  -40 +90 °C  mechanical  mechanical  50 60 Hz  1	Ambient conditions	
● during storage  explosion protection category for dust none  design of the switching contact mechanical operating frequency rated value number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 operational current at AC-15	ambient temperature	
explosion protection category for dust  design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  operational current at AC-15	<ul> <li>during operation</li> </ul>	-25 +85 °C
design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  operational current at AC-15	during storage	-40 +90 °C
operating frequency rated value 50 60 Hz number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current at AC-15	explosion protection category for dust	none
number of NC contacts for auxiliary contacts  1 number of NO contacts for auxiliary contacts  1 operational current at AC-15	design of the switching contact	mechanical
number of NO contacts for auxiliary contacts 1 operational current at AC-15	operating frequency rated value	50 60 Hz
operational current at AC-15	number of NC contacts for auxiliary contacts	1
	number of NO contacts for auxiliary contacts	1
• at 24 V rated value 6 A	operational current at AC-15	
	at 24 V rated value	6 A

<ul> <li>at 120 V rated value</li> </ul>	6 A
<ul> <li>at 240 V rated value</li> </ul>	6 A
<ul> <li>at 400 V rated value</li> </ul>	4 A
operational current at DC-13	
<ul><li>at 24 V rated value</li></ul>	3 A
<ul> <li>at 125 V rated value</li> </ul>	0.55 A
at 250 V rated value	0.27 A
<ul> <li>at 400 V rated value</li> </ul>	0.12 A
Enclosure	
design of the housing	block, wide
material of the enclosure	plastic
coating of the enclosure	Other types
design of the housing according to standard	No
Drive Head	
design of the actuating element	Rounded plunger, plastic plunger
standard-compliant actuator head	EN 50047, design B
shape of the switch head	rounded
design of the switching function	positive opening, integrated
circuit principle	snap-action contacts
number of switching contacts safety-related	1
cable entry type	2x (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)
for AWG cables stranded	1x (20 16), 2x (20 18)
design of the interface for safety-related communication	without
Communication/ Protocol	
design of the interface	without
Certificates/ approvals	
Gonoral Product Approval	

## **General Product Approval**





Confirmation



<u>KC</u>



Functional
Safety/Safety of Machinery

Declaration of Conformity
Test Certificates

other

Type Examination Certificate





Type Test Certificates/Test Report Confirmation

## Further information

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)

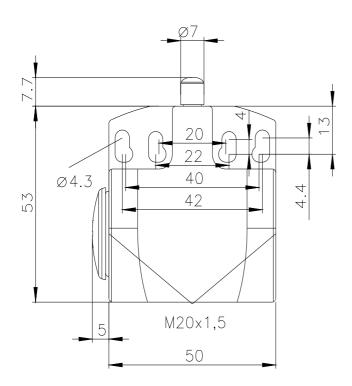
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5242-0HC05

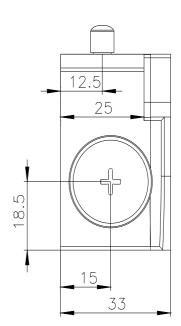
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5242-0HC05

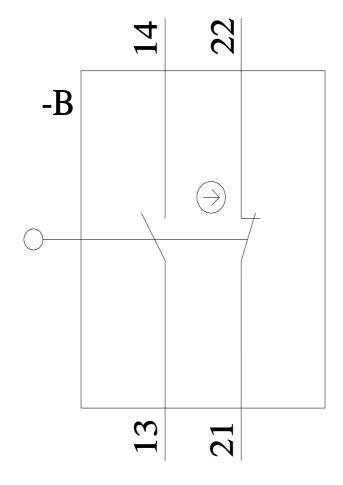
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

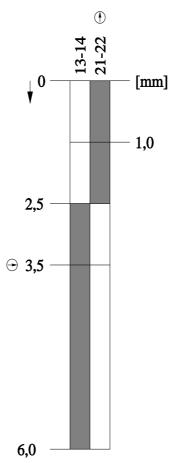
https://support.industry.siemens.com/cs/ww/en/ps/3SE5242-0HC05

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=3SE5242-0HC05&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SE5242-0HC05&lang=en</a>









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