## **SIEMENS**

Data sheet 3SE5162-0CB01



Position switch 3SE5162 Metal enclosure XL, 56 mm wide Plain plunger made of stainless steel Device connection 3 x (M20 x 1.5) 2 x (1 NO/1 NC) Quick action contacts IP66/IP67

product type designation product type designation system of the supplied basic switch of the supplied subtator head for position switches system of the supplied switching contacts of the supplied empty enclosure with cover system of the supplied switching contacts of the supplied empty enclosure with cover system of the supplied switching contacts of the supplied empty enclosure with cover system of the supplied switching contacts of the supplied switching contacts of the supplied switching contacts of the supplied switching contact of the supplied switching contact  yes substance voice system or supplied switching contacts of the supplied switching contact of the supplied switching contact  yes system or supplied switching contact of the supplied switching contact of the supplied switching contact  yes system or supplied witching system or supplied system or s	product brand name	SIRIUS
manufacturer's article number  of the supplied basic switch of the supplied switch head for position switches of the supplied switching contacts of the supplied advantor head for position switches of the supplied empty enclosure with cover 35E5162-0AA00 suitability for use safety switch  of the supplied dempty enclosure with cover 35E5162-0AA00 suitability for use safety switch  product function positive opening  Yes 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 vibration resistance according to IEC 60068-2-6 electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical reference code according to IEC 81346-2 B continuous current of the Characteristic MCB 1 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link gG active principle repeat accuracy 0.05 mm Substance Prohibitance (Date) WHC Substance Prohibitance (Date) WHC Substance name minimum actuating force in directions of actuation substance Indications minimum actuating force in directions of actuation substance Horizona (Date Sensor Width of the sensor  abbient temperature  during operation during storage explosion protection category for dust	product designation	Mechanical position switches
of the supplied basic switch     of the supplied actuator head for position switches     of the supplied actuator head for position switches     of the supplied switching contacts     of the supplied empty enclosure with cover     size5162.0AA00     suitability for use safety switch     Product function positive opening     Tyes     insulation voltage rated value     degree of pollution     degree of pollution     surge voltage resistance rated value     degree of pollution     surge voltage resistance rated value     described in the sensor     according to IEC 60068-2-27     supplied sent to IEC 60068-2-6     mechanical service life (operating cycles) typical     selectrical endurance (operating cycles) at AC-15 at 230 V     typical     thermal current     material of the enclosure of the switch head metal     reference code according to IEC 81346-2     B     continuous current of the C characteristic MCB     continuous current of the DIAZED fuse link g     active principle     mechanical     SVHC substance name     minimum actuating force in directions of actuation     substance Prohibitance (Date)     SVHC substance name     minimum actuating force in directions of actuation     substance Prohibitance (Date)     substance Prohibitance	product type designation	3SE5
of the supplied actuator head for position switches     of the supplied switching contacts     of the supplied empty enclosure with cover     suitability for use safety switch     suitability for use safety switch     Pes  Ceneral technical data  Product function positive opening     Insulation voltage rated value     degree of pollution     disass 3     surge voltage resistance rated value     degree of pollution     suitability for use safety switch     degree of pollution     disass 3     surge voltage resistance rated value     de RV  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     selectrical endurance (operating cycles) typical     thermal current     10 A     material of the enclosure of the switch head metal     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     10 A; for a short-circuit current smaller than 400 A     continuous current of the DIAZED fuse link of A     continuous current of the DIAZED fuse link of A     continuous current of the DIAZED fuse link of A     continuous current of the DIAZED fuse link of A     continuous current of the DIAZED fuse link of B     subtive principle mechanical     repeat accuracy of the sensor indiazolidin-2-thion - 96-45-7     minimum actuating force in directions of actuation of A     substance Prohibitance (Date) of 707/01/2006     SWHC substance name indiazolidin-2-thion - 96-45-7     minimum actuating force in directions of actuation of the sensor of th	manufacturer's article number	
of the supplied switching contacts of the supplied empty enclosure with cover subtability for use safety switch  Product function positive opening  Product function positive po	of the supplied basic switch	3SE5162-0CA00
of the supplied empty enclosure with cover     suitability for use safety switch     Product function positive opening     product function positive opening     Insulation voltage rated value     degree of politution     deass 3     surge voltage resistance rated value     delev     protection class IP     shock resistance	<ul> <li>of the supplied actuator head for position switches</li> </ul>	3SE5000-0AB01
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 shock resistance • according to IEC 60068-2-27  vibration resistance according to IEC 60068-2-6  according to IEC 60068-2-7  vibration resistance according to IEC 60068-2-6  olong the protection class IP shock resistance • according to IEC 60068-2-7  vibration resistance according to IEC 60068-2-6  olong the protection of the control	<ul> <li>of the supplied switching contacts</li> </ul>	1x 3SE5000-0CA00, 1x 3SE5060-0CA00
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 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 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) 70701/2006 SVHC substance name minimum actuating force in directions of actuation width of the sensor 40 m. +90 °C explosion protection category for dust	of the supplied empty enclosure with cover	3SE5162-0AA00
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 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 metal reference code according to IEC 81346-2  continuous current of the C characteristic MCB active principle continuous current of the quick DIAZED fuse link continuous current of the DIAZED fuse link gG active principle mechanical repeat accuracy  Substance Prohibitance (Date)  SVHC substance name minimum actuating force in directions of actuation length of the sensor width of the sensor width of the sensor soft mm  during storage  explosion protection category for dust  400 +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  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 G  6 A  continuous current of the DIAZED fuse link G  6 A  cative principle  mechanical  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  SVHC substance name  minimum actuating force in directions of actuation  length of the sensor  40 minimum actuating force in directions of actuation  length of the sensor  40 minimum actuating force in directions of actuation  length of the sensor  40 minimum actuating force in directions of actuation  ambient temperature  4 during operation  4 during operation  4 during storage  4 during storage  4 during operation category for dust	General technical data	
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 5 000 000 electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current 10 A material of the enclosure of the switch head metal reference code according to IEC 81346-2 B continuous current of the C characteristic MCB 1A; 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 6 A active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 07/01/2006 SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation 30 N length of the sensor 111.5 mm width of the sensor 56 mm Ambient conditions  ambient temperature  • during operation -25 +85 °C • during storage -40 +90 °C 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  10 A  material of the enclosure of the switch head  metal  reference code according to IEC 81346-2  B  continuous current of the C characteristic MCB  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 G  6 A  active principle  mechanical  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  SVHC substance name  Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  width of the sensor  40 metal  **The continuous current of the continuous of actuation  width of the sensor  40 metal  **Continuous current of the DIAZED fuse link G  6 A  **Mabient conditions  ambient temperature  • during operation  • during storage  • 40 +90 °C  explosion protection category for dust	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 B 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 mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation length of the sensor 4 mblent conditions ambient temperature e during operation e during storage explosion protection category for dust	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 (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  continuous current of the Quick DIAZED fuse link  continuous current of the DIAZED fuse link gG  active principle  repeat accuracy  Substance Prohibitance (Date)  SVHC substance name  minimum actuating force in directions of actuation  length of the sensor  width of the sensor  4 during operation  -25 +85 °C  -during storage  explosion protection category for dust	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 reference code according to IEC 81346-2 B continuous current of the C characteristic MCB 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 00.6 A active principle repeat accuracy 0.05 mm Substance Prohibitance (Date)  SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation length of the sensor 40 mm width of the sensor 56 mm Ambient conditions  ambient temperature oduring operation -25 +85 °C oduring 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  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 gG  active principle  repeat accuracy  Substance Prohibitance (Date)  SVHC substance name  Imidazolidin-2-thion - 96-45-7  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	• according to IEC 60068-2-27	30g / 11 ms
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  continuous current of the pliazed fuse link gG  active principle  repeat accuracy  Substance Prohibitance (Date)  SYHC substance name  Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  width of the sensor  4 minimum substance Prohibitance  e during operation  output  -25 +85 °C  -40 +90 °C  explosion protection category for dust	vibration resistance according to IEC 60068-2-6	0.35 mm/5g
thermal current 10 A material of the enclosure of the switch head metal 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 G 6 A active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 07/01/2006 SVHC substance name Imidazolidin-2-thion - 96-45-7 minimum actuating force in directions of actuation 30 N length of the sensor 111.5 mm width of the sensor 56 mm  Ambient conditions ambient temperature • during operation -25 +85 °C - during storage -40 +90 °C explosion protection category for dust	mechanical service life (operating cycles) typical	5 000 000
material of the enclosure of the switch head reference code according to IEC 81346-2 B continuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link to A; for a short-circuit current smaller than 400 A continuous current of the plazed fuse link gG active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) SVHC substance name Imidazolidin-2-thion - 96-45-7 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 ### during decided in the sensor ### application and in the sensor and		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)  SYHC substance name  Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  interpretation  ambient conditions  ambient temperature  • during operation  • during storage  explosion protection category for dust  1 A; for a short-circuit current smaller than 400 A  10 A; for a short-circuit	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)  SYHC substance name  Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  111.5 mm  width of the sensor  4mbient conditions  ambient temperature  o during operation  other in the sensor of the sensor	material of the enclosure of the switch head	metal
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)  SVHC substance name  Imidazolidin-2-thion - 96-45-7  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  10 A; for a short-circuit current smaller than 400 A  ### Ambient curre	reference code according to IEC 81346-2	В
continuous current of the DIAZED fuse link gG  active principle  repeat accuracy  Substance Prohibitance (Date)  SVHC substance name  Imidazolidin-2-thion - 96-45-7  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  ### Ambient conditions  6 A  ### Mechanical  #	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  SVHC substance name Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation 30 N  length of the sensor 111.5 mm  width of the sensor 56 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)  SVHC substance name  Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  vidth of the sensor  Ambient conditions  ambient temperature  during operation  during storage  explosion protection category for dust  or 7/01/2006  Imidazolidin-2-thion - 96-45-7  30 N  111.5 mm  56 mm  -25 +85 °C  -40 +90 °C  explosion protection category for dust	continuous current of the DIAZED fuse link gG	6 A
Substance Prohibitance (Date)  SVHC substance name  Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  111.5 mm  width of the sensor  56 mm  Ambient conditions  ambient temperature  • during operation • during storage  explosion protection category for dust  07/01/2006  1midazolidin-2-thion - 96-45-7  30 N  111.5 mm  56 mm  -25 +85 °C  -40 +90 °C  explosion protection category for dust  none	active principle	mechanical
SVHC substance name  Imidazolidin-2-thion - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  width of the sensor  56 mm  Ambient conditions  ambient temperature  • during operation • during storage  explosion protection category for dust  Imidazolidin-2-thion - 96-45-7  30 N  50 mm  51 mm  52 mm  64 mm  64 mm  64 mm  64 mm  65 mm  66 mm  67 mm  68 mm  68 mm  69 mm  60 mm	repeat accuracy	0.05 mm
minimum actuating force in directions of actuation  length of the sensor  width of the sensor  56 mm  Ambient conditions  ambient temperature  • during operation • during storage  explosion protection category for dust  30 N  111.5 mm  56 mm  -25 +85 °C  -40 +90 °C  explosion protection category for dust	Substance Prohibitance (Date)	07/01/2006
length of the sensor  width of the sensor  Ambient conditions  ambient temperature  • during operation • during storage  explosion protection category for dust  111.5 mm  56 mm  -25 +85 °C  -40 +90 °C  explosion protection category for dust	SVHC substance name	Imidazolidin-2-thion - 96-45-7
width of the sensor  Ambient conditions  ambient temperature  • during operation • during storage • during storage  explosion protection category for dust  -56 mm  -25 +85 °C  -40 +90 °C  explosion protection category for dust	minimum actuating force in directions of actuation	30 N
Ambient conditions  ambient temperature  • during operation • during storage  • during storage  -40 +90 °C  explosion protection category for dust  none	length of the sensor	111.5 mm
ambient temperature  • during operation  • during storage  • during storage  -40 +90 °C  explosion protection category for dust  none	width of the sensor	56 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	<ul> <li>during operation</li> </ul>	-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	2	
number of NO contacts for auxiliary contacts	2	
operational current at AC-15		
at 24 V rated value	6 A	
at 125 V rated value	6 A	
<ul><li>at 240 V rated value</li></ul>	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	
Enclosure		
design of the housing	block, wide	
material of the enclosure	metal	
coating of the enclosure	cathodic dip coating	
design of the housing according to standard	No	
Drive Head		
design of the actuating element	Rounded plunger, high-grade steel plunger	
standard-compliant actuator head	EN 50041, design B	
shape of the switch head	rounded	
design of the switching function	positive opening	
circuit principle	snap-action contacts	
number of switching contacts safety-related	2	
cable entry type	3x (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)	
for AWG cables solid	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		
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=3SE5162-0CB01

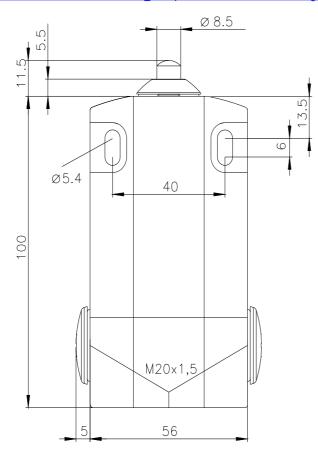
Cax online generator

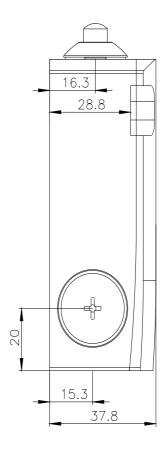
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5162-0CB01

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

https://support.industry.siemens.com/cs/ww/en/ps/3SE5162-0CB01

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SE5162-0CB01&lang=en





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