## 3SU1400-1AA10-1BA0

**Data sheet** 



Contact module with 1 contact element, 1 NO, screw terminal, for front plate mounting, Minimum order quantity 5 or a multiple of this  $\,$ 

product type designation         Contact module           contact block/ lampholder           socket design         other           Central technical data         One           General technical data         No           insulation voltage rated value         500 V           degree of pollution         3           type of voltage         AC/DC           of the operating voltage         AC/DC           surge voltage resistance rated value         6 kV           of the enclosure         IP40           of the enclosure         IP40           of the terminal         IP20           shock resistance         according to IEC 60068-2-27         sinusoidal half-wave 15g / 11 ms           stor rallway applications according to EN 61373         Category 1, Class B           vibration resistance         according to IEC 60068-2-6         10 500 Hz.: 5g           of for rallway applications according to EN 61373         Category 1, Class B           operating frequency maximum         3 600 1/h           mechanical service life (operating cycles) typical         10 000 000           electrical endurance (operating cycles) typical         10 000 000           electrical endurance (operating cycles) typical         10 00 000           descripting voltage         <	product brand name	SIRIUS ACT
Socket design other  socket design other  General technical data  product function positive opening No insulation voltage rated value 500 V degree of pollution 3 type of voltage of the operating voltage AC/DC  of the operating voltage AC/DC  surge voltage resistance rated value 6 kV  protection class IP of the enclosure IP40  of the enclosure IP40  of the enclosure IP40  of the terminal IP20  shock resistance  according to IEC 60068-2-77 sinusoidal half-wave 15g / 11 ms  Category 1, Class B  vibration resistance  according to IEC 60068-2-8 10500 Hz. 5g  for railway applications according to EN 61373 Category 1, Class B  vibration resistance  according to IEC 60068-2-8 10500 Hz. 5g  operating frequency maximum 3 600 Hz. 1000 000  celectrical endurance (operating cycles) typical 10000 000  electrical endurance (operating cycles) typical 10000 000  reference code according to IEC 81348-2 S  continuous current of the C characteristic MCB 10 A  reference code according to IEC 81348-2 S  continuous current of the C characteristic MCB 10 A  substance Prohibitance (Date) 10/01/2014  operating voltage 1 Since Sinc	product designation	Contact module
General technical data  product function positive opening   No   insulation voltage rated value   500 V   degree of pollution   3   type of voltage   AC/DC   of the operating voltage   AC/DC   surge voltage resistance rated value   6 kV   protection class IP   of the enclosure   IP40   of the terminal   IP20   shock resistance   of the terminal   IP20   shock resistance   of railway applications according to EN 61373   Category 1, Class B   vibration resistance   of of railway applications according to EN 61373   Category 1, Class B   operating frequency maximum   3 600 1/h   mechanical service life (operating cycles) typical   10 000 000   electrical endurance (operating cycles) typical   10 000 000   electrical endurance (operating cycles) typical   10 0A   reference code according to IEC 81346-2   S   continuous current of the Characteristic MCB   10 A   Substance Prohibitance (Date)   10 IV 1/2014   operating voltage   ot AC   - at 60 Hz rated value   5 500 V   ot at DC rated value   5 500 V   ot at DC rated value   5 500 V   other contact of auxiliary contacts   Silver alloy   design of the contact of auxiliary contacts   Silver alloy   design of the contact of auxiliary contacts   Silver alloy   Sil	product type designation	3SU1
Central technical data  product function positive opening	Contact block/ lampholder	
product function positive opening No  Insulation voltage rated value 500 V  degree of pollution 3  **Type of voltage**  **of the operating voltage AC/DC  **of the input voltage AC/DC  **of the input voltage AC/DC  **of the enclosure IP4  **of the enclosure IP20  **of the enclosure IP20  **of the enclosure IP20  **of the terminal IP20  **shock resistance**  **according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms  **of rallway applications according to EN 61373 Category 1, Class B  **Uibration resistance**  **according to IEC 60068-2-6 10 500 Hz: 5g  **of rallway applications according to EN 61373 Category 1, Class B  **operating frequency maximum 3 6001 /h  **operating frequency maximum 3 6001 /h  **operating frequency maximum 10 000 000  **electrical endurance (operating cycles) typical 10 000 000  **electrical endurance (operating cycles) typical 10 000 000  **thermal current 10 A	socket design	other
Insulation voltage rated value	General technical data	
degree of pollution  type of voltage  of the operating voltage of the operating voltage AC/DC  surge voltage resistance rated value of the enclosure of the enclosure of the terminal IP20  shock resistance according to IEC 60068-2-7 for railway applications according to EN 61373  vibration resistance  according to IEC 60068-2-8 for railway applications according to EN 61373  vibration resistance operating frequency maximum 3 600 1/h mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical thermal current 10 A  reference code according to IEC 81346-2 S  continuous current of the C characteristic MCB 10 A  Substance Prohibitance (Date) operating rotated value  at AC — at 50 Hz rated value at DC rated value  at DC rated value  at DC rated value  at DC rated value  at DC rated value  at DC rated value  at DC rated value  one maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (20 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts Silver alloy	product function positive opening	No
of the operating voltage of the input voltage of the enclosure of the enclosure of the enclosure of the terminal iP20  **Nor resistance occording to IEC 60068-2-7 of railway applications according to EN 61373 Category 1, Class B  **Vibration resistance occording to IEC 60068-2-6 of railway applications according to EN 61373 Category 1, Class B  **Vibration resistance occording to IEC 60068-2-6 of railway applications according to EN 61373 Category 1, Class B  **Operating frequency maximum and the image of the contact of auxiliary contacts  **Operating frequency maximum and the image of the contact of auxiliary contacts  **Operating frequency coles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical operating voltage ocat AC	insulation voltage rated value	500 V
of the operating voltage     of the input voltage     surge voltage resistance rated value     of the enclosure     of the enclosure     of the terminal     shock resistance     ocarding to IEC 60068-2-27     of railway applications according to EN 61373     category 1, Class B  vibration resistance     ocording to IEC 60068-2-6     of railway applications according to EN 61373     category 1, Class B  vibration resistance     ocording to IEC 60068-2-6     of railway applications according to EN 61373     category 1, Class B  operating frequency maximum     3 600 1/h mechanical service life (operating cycles) typical     electrical endurance (operating cycles) typical     electrical endurance (operating cycles) typical     operating output to EC 81346-2     scontinuous current of the C characteristic MCB     substance Prohibitance (Date)     operating voltage     ot AC	degree of pollution	3
of the input voltage     surge voltage resistance rated value     protection class IP     of the enclosure     of the terminal     in P20  shock resistance     octroing to IEC 60068-2-27     of or railway applications according to EN 61373  vibration resistance     occording to IEC 60068-2-6     of or railway applications according to EN 61373  vibration resistance     occording to IEC 60068-2-6     occording to IEC 61373     occording to IEC 60068-2-6     occording to IEC 60068-2-6     occording to IEC 60068-2-6     occording to IEC 60068-2-7     occording to IEC 60068-2-8     occording to IEC 60068-2-8     occording to IEC 60068-2-8     occording to IEC 60068-2-7     occording to IEC 60068-2-9	type of voltage	
surge voltage resistance rated value  protection class IP  of the enclosure of the terminal iP20  shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms  Category 1, Class B  vibration resistance according to IEC 60068-2-6 for railway applications according to EN 61373 Category 1, Class B  vibration resistance according to IEC 60068-2-6 for railway applications according to EN 61373 Category 1, Class B  vibration resistance according to IEC 60068-2-6 for railway applications according to EN 61373 Category 1, Class B  operating frequency maximum 3 600 1/h mechanical service life (operating cycles) typical 10 000 000  thermal current 10 A  reference code according to IEC 81346-2 Sountinuous current of the C characteristic MCB 10 A  Substance Prohibitance (Date) 10/01/2014  operating voltage  at AC  — at 50 Hz rated value 5 500 V  at DC rated value 5 500 V  e at DC rated value 5 500 V  Power Electronics  contact reliability Cne maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (6 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts Silver alloy	<ul> <li>of the operating voltage</li> </ul>	AC/DC
protection class IP  of the enclosure of the terminal shock resistance according to IEC 60068-2-27 of railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 of railway applications according to EN 61373 Category 1, Class B  vibration resistance of railway applications according to EN 61373 Category 1, Class B  vibration resistance of railway applications according to EN 61373 Category 1, Class B  operating frequency maximum 3 600 1/h mechanical service life (operating cycles) typical 10 000 000 electrical endurance (operating cycles) typical 10 000 000 thermal current 10 A reference code according to IEC 81346-2 Substance Prohibitance (Date) 10/01/2014  operating voltage oat ACat 50 Hz rated valueat 60 Hz rated valueat 60 Hz rated valueat 60 Hz rated value	of the input voltage	AC/DC
of the enclosure     of the terminal     IP20  shock resistance     according to IEC 60068-2-7     of railway applications according to EN 61373     category 1, Class B  vibration resistance     according to IEC 60068-2-6     of railway applications according to EN 61373     category 1, Class B  vibration resistance     according to IEC 60068-2-6     of railway applications according to EN 61373     category 1, Class B  operating frequency maximum     3 600 1/h mechanical service life (operating cycles) typical     electrical endurance (operating cycles) typical     10 000 000  thermal current     10 A  reference code according to IEC 81346-2     S continuous current of the C characteristic MCB     10 A  Substance Prohibitance (Date)     operating voltage     at AC     —at 50 Hz rated value     at AC     —at 60 Hz rated value     5 500 V     at DC rated value     5 500 V  Power Electronics  contact reliability     One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts     Silver alloy	surge voltage resistance rated value	6 kV
of the terminal     shock resistance         according to IEC 60068-2-27         for railway applications according to EN 61373         Category 1, Class B  vibration resistance         according to IEC 60068-2-6         for railway applications according to EN 61373         Category 1, Class B  vibration resistance         according to IEC 60068-2-6         for railway applications according to EN 61373         Category 1, Class B  operating frequency maximum         3 600 1/h  mechanical service life (operating cycles) typical         electrical endurance (operating cycles) typical         electrical endurance (operating cycles) typical         electrical endurance (operating to IEC 81346-2               S         continuous current of the C characteristic MCB  Substance Prohibitance (Date)         operating voltage         e at AC	protection class IP	
shock resistance  according to IEC 60068-2-27  for railway applications according to EN 61373  category 1, Class B  vibration resistance  according to IEC 60068-2-6  for railway applications according to EN 61373  category 1, Class B  10 500 Hz: 59  for railway applications according to EN 61373  category 1, Class B  operating frequency maximum  3 600 1/h  mechanical service life (operating cycles) typical  electrical endurance (operating cycles) typical  electrical endurance (operating cycles) typical  10 000 000  thermal current  reference code according to IEC 81346-2  scontinuous current of the C characteristic MCB  10 A  Substance Prohibitance (Date)  operating voltage  at AC  at 50 Hz rated value  at AC  at 50 Hz rated value  5 500 V  at DC rated value  5 500 V  or maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts	<ul> <li>of the enclosure</li> </ul>	IP40
* according to IEC 60068-2-27     * for railway applications according to EN 61373  vibration resistance     * according to IEC 60068-2-6     * for railway applications according to EN 61373  operating frequency maximum     * a600 1/h  mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating to IEC 81346-2 continuous current of the C characteristic MCB Substance Prohibitance (Date)  • at AC  — at 50 Hz rated value — at 60 Hz rated value • at Dc rated value • one maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts  Silver alloy  Silver alloy	<ul><li>of the terminal</li></ul>	IP20
• for railway applications according to EN 61373  vibration resistance     • according to IEC 60068-2-6     • for railway applications according to EN 61373  category 1, Class B  operating frequency maximum     3 600 1/h  mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical thermal current reference code according to IEC 81346-2 continuous current of the C characteristic MCB Substance Prohibitance (Date) operating voltage     • at AC     — at 50 Hz rated value     — at 60 Hz rated value     • at DC rat	shock resistance	
vibration resistance  • according to IEC 60068-2-6  • for railway applications according to EN 61373  category 1, Class B  operating frequency maximum  3 600 1/h  mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical 10 000 000  thermal current 10 A  reference code according to IEC 81346-2 continuous current of the C characteristic MCB Substance Prohibitance (Date) 10/01/2014  operating voltage • at AC  — at 50 Hz rated value — at 60 Hz rated value 5 500 V  • at DC rated value 5 500 V  Power Electronics  contact reliability One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit design of the contact of auxiliary contacts Silver alloy	<ul><li>according to IEC 60068-2-27</li></ul>	sinusoidal half-wave 15g / 11 ms
o according to IEC 60068-2-6     o for railway applications according to EN 61373     operating frequency maximum         3 600 1/h     mechanical service life (operating cycles) typical     electrical endurance (operating cycles) typical     electrical endurance (operating cycles) typical         10 000 000     thermal current         10 A     reference code according to IEC 81346-2     continuous current of the C characteristic MCB     Substance Prohibitance (Date)     operating voltage         • at AC             — at 50 Hz rated value             — at 60 Hz rated value             • at DC r	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
• for railway applications according to EN 61373      operating frequency maximum	vibration resistance	
operating frequency maximum  mechanical service life (operating cycles) typical  electrical endurance (operating cycles) typical  thermal current  10 A  reference code according to IEC 81346-2  continuous current of the C characteristic MCB  Substance Prohibitance (Date)  operating voltage  • at AC  — at 50 Hz rated value — at 60 Hz rated value • at DC rated value • at DC rated value  • at DC rated value  Fower Electronics  contact reliability  One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts  Silver alloy	<ul><li>according to IEC 60068-2-6</li></ul>	10 500 Hz: 5g
mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical thermal current 10 000 000  thermal current 10 A  reference code according to IEC 81346-2 continuous current of the C characteristic MCB Substance Prohibitance (Date) 10/01/2014  operating voltage • at AC - at 50 Hz rated value - at 60 Hz rated value 5 500 V • at DC rated value 5 500 V  Power Electronics contact reliability One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit design of the contact of auxiliary contacts Silver alloy	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
electrical endurance (operating cycles) typical  thermal current  reference code according to IEC 81346-2  continuous current of the C characteristic MCB  Substance Prohibitance (Date)  operating voltage  • at AC  — at 50 Hz rated value — at 60 Hz rated value • at DC rated value • at DC rated value  contact reliability  One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts  Silver alloy	operating frequency maximum	3 600 1/h
thermal current  reference code according to IEC 81346-2  continuous current of the C characteristic MCB  Substance Prohibitance (Date)  operating voltage  • at AC  — at 50 Hz rated value — at 60 Hz rated value 5 500 V  • at DC rated value 5 500 V  Power Electronics  contact reliability  One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts  Silver alloy	mechanical service life (operating cycles) typical	10 000 000
reference code according to IEC 81346-2  continuous current of the C characteristic MCB  Substance Prohibitance (Date)  operating voltage  • at AC  — at 50 Hz rated value — at 60 Hz rated value 5 500 V  • at DC rated value 5 500 V  Power Electronics  contact reliability  One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts  Silver alloy	electrical endurance (operating cycles) typical	10 000 000
continuous current of the C characteristic MCB  Substance Prohibitance (Date)  operating voltage  • at AC  — at 50 Hz rated value — at 60 Hz rated value 5 500 V  • at DC rated value  5 500 V  Power Electronics  contact reliability  One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts  Silver alloy	thermal current	10 A
Substance Prohibitance (Date)  operating voltage  • at AC  — at 50 Hz rated value — at 60 Hz rated value 5 500 V  • at DC rated value 5 500 V  Power Electronics  contact reliability  One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts  Silver alloy	reference code according to IEC 81346-2	S
operating voltage  • at AC  — at 50 Hz rated value — at 60 Hz rated value 5 500 V  • at DC rated value 5 500 V  Power Electronics  contact reliability  One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts Silver alloy	continuous current of the C characteristic MCB	10 A
at AC  — at 50 Hz rated value — at 60 Hz rated value 5 500 V  at DC rated value 5 500 V  Power Electronics  contact reliability  One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts  Silver alloy	Substance Prohibitance (Date)	10/01/2014
- at 50 Hz rated value 5 500 V - at 60 Hz rated value 5 500 V  • at DC rated value 5 500 V  Power Electronics  contact reliability One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts Silver alloy	operating voltage	
— at 60 Hz rated value 5 500 V  • at DC rated value 5 500 V  Power Electronics  contact reliability One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts Silver alloy	• at AC	
• at DC rated value 5 500 V  Power Electronics  contact reliability One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts Silver alloy	— at 50 Hz rated value	5 500 V
Power Electronics  contact reliability  One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts  Silver alloy	— at 60 Hz rated value	5 500 V
contact reliability  One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts  Silver alloy	<ul> <li>at DC rated value</li> </ul>	5 500 V
(5 V, 1 mÅ)  Auxiliary circuit  design of the contact of auxiliary contacts  Silver alloy	Power Electronics	
design of the contact of auxiliary contacts  Silver alloy	contact reliability	
	Auxiliary circuit	
number of NC contacts for auxiliary contacts	design of the contact of auxiliary contacts	Silver alloy
	number of NC contacts for auxiliary contacts	0

lagging switching	0
number of NO contacts for auxiliary contacts	1
leading contact	0
operational current at AC-12	
<ul> <li>at 24 V rated value</li> </ul>	10 A
• at 48 V rated value	10 A
• at 110 V rated value	10 A
at 230 V rated value	8 A
• at 400 V rated value	8 A
operational current at AC-15	
at 24 V rated value	6 A
at 48 V rated value	6 A
at 110 V rated value	6 A
at 230 V rated value	6 A
at 400 V rated value	3 A
at 500 V rated value	1.4 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	5 A
at 110 V rated value	2.5 A
• at 230 V rated value	1A
• at 400 V rated value	0.3 A
• at 500 V rated value	0.3 A
operational current at DC-13	0.5 A
• at 24 V rated value	3 A
at 48 V rated value	1.5 A
at 110 V rated value	0.7 A
at 230 V rated value	0.3 A
• at 400 V rated value	0.1 A
at 500 V rated value	0.1 A
Connections/ Terminals	
type of electrical connection	screw-type terminals
type of connectable conductor cross-sections	
solid with core end processing	2x (0.5 0.75 mm²)
<ul> <li>solid without core end processing</li> </ul>	2x (1.0 1.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (1,0 1,5 mm²)
for AWG cables	2x (18 14)
tightening torque with screw-type terminals	0.8 0.9 N·m
Ambient conditions	
ambient temperature	
<ul><li>during operation</li></ul>	-25 +70 °C
during storage	-40 +80 °C
environmental category during operation according to IEC 60721	3M6, 3S2, 3B2, 3C3 (without salt spray), 3K6 (with relative humidity of 10 95%, no condensation in operation permitted)
Installation/ mounting/ dimensions	
fastening method	front plate mounting
of modules and accessories	Front plate mounting
height	33.2 mm
width	9.8 mm
depth	27.7 mm
suitability for integration	
plastic enclosure	Yes
<ul> <li>metal enclosure</li> </ul>	Yes
Certificates/ approvals	
General Product Approval	



Confirmation







<u>KC</u>







Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping

other

Environment







Confirmation

Environmental Confirmations

## 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=3SU1400-1AA10-1BA0

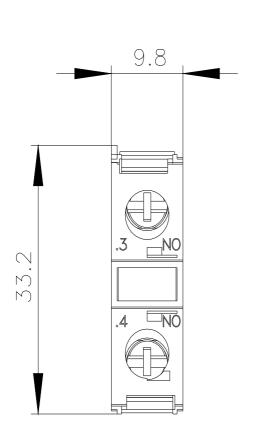
Cax online generator

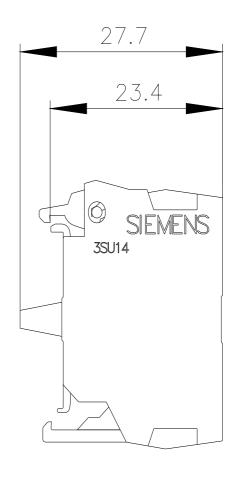
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3SU1400-1AA10-1BA0}$ 

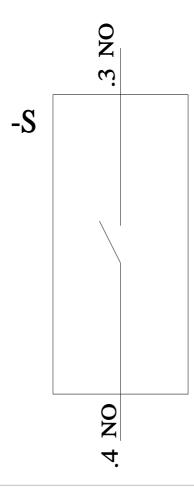
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SU1400-1AA10-1BA0

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=3SU1400-1AA10-1BA0&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1400-1AA10-1BA0&lang=en</a>







last modified: 3/9/2022 🖸