3SU1400-1AA10-1GA0

## **Data sheet**



Contact module with 2 contact elements, 1 NO leading + 1 NC lagging, screw terminal, for front plate mounting

product designation general technical data product function positive opening product function positive of the control positive opening product function positive of the control positive opening product function positive of the control positive o	product brand name	SIRIUS ACT
Semeral technical data   product function positive opening   Yes	product designation	Contact module
product function positive opening insulation voltage rated value  degree of pollution type of voltage of the operating voltage of the input voltage AC/DC surge voltage resistance rated value protection class IP of the enclosure of the terminal IP20, clamping screw tightened  shock resistance acc. to IEC 60068-2-27 for railway applications acc. to DIN EN 61373 Vibration resistance acc. to IEC 60068-2-6 of railway applications acc. to DIN EN 61373 Category 1, Class B  vibration resistance acc. to IEC 60068-2-6 for railway applications acc. to DIN EN 61373 Category 1, Class B  vibration resistance acc. to IEC 60068-2-6 for railway applications acc. to DIN EN 61373 Category 1, Class B  coperating frequency maximum 3 600 1/h mechanical service life (switching cycles) typical electrical endurance (switching cycles) typical thermal current 10 A reference code acc. to IEC 81346-2 S continuous current of the C characteristic MCB  • operating voltage at AC — at 50 Hz rated value — at 60 Hz rated value 5 500 V • operating voltage at DC rated value  • One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)	product type designation	3SU1
insulation voltage rated value  degree of pollution  type of voltage	General technical data	
degree of pollution  type of voltage  of the operating voltage  of the input voltage  AC/DC  surge voltage resistance rated value  protection class IP  of the enclosure  of the terminal  shock resistance  acc. to IEC 60068-2-27  for railway applications acc. to DIN EN 61373  vibration resistance  acc. to IEC 60068-2-6  for railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance  of the railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance  in consider the formal way applications acc. to DIN EN 61373  operating frequency maximum  mechanical service life (switching cycles) typical  electrical endurance (switching cycles) typical  electrical endurance (switching cycles) typical  thermal current  reference code acc. to IEC 81346-2  continuous current of the C characteristic MCB  operating voltage at AC  — at 50 Hz rated value — at 60 Hz rated value  operating voltage at DC rated value  operating voltage	product function positive opening	Yes
type of voltage	insulation voltage rated value	500 V
of the operating voltage     of the input voltage     of the input voltage     surge voltage resistance rated value     of the enclosure     of the enclosure     of the terminal     IP40     input voltage     of the terminal     IP20, clamping screw tightened      shock resistance     one: to IEC 60068-2-27     one: for railway applications acc. to DIN EN 61373     vibration resistance     one: to IEC 60068-2-6     one: for railway applications acc. to DIN EN 61373     category 1, Class B  vibration resistance     one: to IEC 60068-2-6     one for railway applications acc. to DIN EN 61373     category 1, Class B  operating frequency maximum     operating frequency maximum     a 600 1/h     mechanical service life (switching cycles) typical     electrical endurance (switching cycles) typical     ind to A  reference code acc. to IEC 81346-2     s continuous current of the C characteristic MCB   operating voltage at AC     one at 50 Hz rated value     operating voltage at DC rated value     one maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)	degree of pollution	3
of the input voltage     surge voltage resistance rated value     protection class IP     of the enclosure     of the terminal     shock resistance     oac. to IEC 60068-2-27     of railway applications acc. to DIN EN 61373     vibration resistance     oac. to IEC 60068-2-6     of railway applications acc. to DIN EN 61373     Category 1, Class B  vibration resistance     oac. to IEC 60068-2-6     of railway applications acc. to DIN EN 61373     Category 1, Class B  operating frequency maximum     a 600 1/h mechanical service life (switching cycles) typical electrical endurance (switching cycles) typical thermal current thermal current reference code acc. to IEC 81346-2 continuous current of the C characteristic MCB      operating voltage at AC     - at 50 Hz rated value     operating voltage at DC rated value     one maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)	type of voltage	
surge voltage resistance rated value  protection class IP  of the enclosure to the terminal  shock resistance  acc. to IEC 60068-2-27 for railway applications acc. to DIN EN 61373  vibration resistance  acc. to IEC 60068-2-6 for railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance  acc. to IEC 60068-2-6 for railway applications acc. to DIN EN 61373  category 1, Class B  operating frequency maximum  mechanical service life (switching cycles) typical electrical endurance (switching cycles) typical thermal current  10 A  reference code acc. to IEC 81346-2  continuous current of the C characteristic MCB  operating voltage at AC  — at 50 Hz rated value — at 60 Hz rated value operating voltage at DC rated value  operation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)	<ul> <li>of the operating voltage</li> </ul>	AC/DC
protection class IP  of the enclosure of the terminal lP20, clamping screw tightened  shock resistance of railway applications acc. to DIN EN 61373 Category 1, Class B  vibration resistance of railway applications acc. to DIN EN 61373 Category 1, Class B  vibration resistance of railway applications acc. to DIN EN 61373 Category 1, Class B  operating frequency maximum operating frequency maximum acchanical service life (switching cycles) typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical thermal current reference code acc. to IEC 81346-2 continuous current of the C characteristic MCB  operating voltage at AC - at 50 Hz rated value - at 60 Hz rated value operating voltage at DC rated value	of the input voltage	AC/DC
of the enclosure     of the terminal     IP40 IP20, clamping screw tightened  shock resistance     acc. to IEC 60068-2-27     of railway applications acc. to DIN EN 61373     vibration resistance     acc. to IEC 60068-2-6     of railway applications acc. to DIN EN 61373     category 1, Class B  vibration resistance     occur to IEC 60068-2-6     of railway applications acc. to DIN EN 61373     category 1, Class B  operating frequency maximum     3 600 1/h mechanical service life (switching cycles) typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical thermal current     10 A  reference code acc. to IEC 81346-2 continuous current of the C characteristic MCB  operating voltage at AC     - at 50 Hz rated value     - at 60 Hz rated value     operating voltage at DC rated value     of the termination value in the value of the value value in the value v	surge voltage resistance rated value	6 kV
of the terminal IP20, clamping screw tightened  shock resistance     o acc. to IEC 60068-2-27 Sinusoidal half-wave 50g / 11 ms  category 1, Class B  vibration resistance     o acc. to IEC 60068-2-6 10 500 Hz: 5g     of railway applications acc. to DIN EN 61373 Category 1, Class B  operating frequency maximum 3 600 1/h  mechanical service life (switching cycles) typical 10 000 000 electrical endurance (switching cycles) typical 10 000 000 thermal current 10 A  reference code acc. to IEC 81346-2 S  continuous current of the C characteristic MCB 10 A  operating voltage at AC  — at 50 Hz rated value 5 500 V  — at 60 Hz rated value 5 500 V  operating voltage 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)	protection class IP	
shock resistance  • acc. to IEC 60068-2-27  • for railway applications acc. to DIN EN 61373  vibration resistance  • acc. to IEC 60068-2-6  • for railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance  • acc. to IEC 60068-2-6  • for railway applications acc. to DIN EN 61373  category 1, Class B  operating frequency maximum  3 600 1/h  mechanical service life (switching cycles) typical  electrical endurance (switching cycles) typical  frequency existency of the Compact of the Compac	<ul> <li>of the enclosure</li> </ul>	IP40
acc. to IEC 60068-2-27  for railway applications acc. to DIN EN 61373  vibration resistance  acc. to IEC 60068-2-6  for railway applications acc. to DIN EN 61373  operating frequency maximum  mechanical service life (switching cycles) typical electrical endurance (switching cycles) typical thermal current  reference code acc. to IEC 81346-2  continuous current of the C characteristic MCB  operating voltage at AC  at 50 Hz rated value operating voltage at DC	of the terminal	IP20, clamping screw tightened
of railway applications acc. to DIN EN 61373     vibration resistance	shock resistance	
vibration resistance       acc. to IEC 60068-2-6       10 500 Hz: 5g         • for railway applications acc. to DIN EN 61373       Category 1, Class B         operating frequency maximum       3 600 1/h         mechanical service life (switching cycles) typical       10 000 000         electrical endurance (switching cycles) typical       10 000 000         thermal current       10 A         reference code acc. to IEC 81346-2       S         continuous current of the C characteristic MCB       10 A         • operating voltage at AC       5 500 V         — at 50 Hz rated value       5 500 V         • operating voltage at DC rated value       5 500 V         • operating voltage at DC rated value       5 500 V         Power Electronics       One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)	• acc. to IEC 60068-2-27	Sinusoidal half-wave 50g / 11 ms
<ul> <li>acc. to IEC 60068-2-6</li> <li>for railway applications acc. to DIN EN 61373</li> <li>Category 1, Class B</li> <li>operating frequency maximum</li> <li>3 600 1/h</li> <li>mechanical service life (switching cycles) typical</li> <li>electrical endurance (switching cycles) typical</li> <li>10 000 000</li> <li>thermal current</li> <li>reference code acc. to IEC 81346-2</li> <li>continuous current of the C characteristic MCB</li> <li>operating voltage at AC</li> <li>— at 50 Hz rated value</li> <li>— at 60 Hz rated value</li> <li>operating voltage at DC rated value</li> <li>sufficiency</li> <li>sufficiency</li> <li>operating voltage at DC rated value</li> <li>maximum for the continuous of the continuou</li></ul>	<ul> <li>for railway applications acc. to DIN EN 61373</li> </ul>	Category 1, Class B
• for railway applications acc. to DIN EN 61373     Operating frequency maximum	vibration resistance	
operating frequency maximum  mechanical service life (switching cycles) typical  electrical endurance (switching cycles) typical  thermal current  10 A  reference code acc. to IEC 81346-2  continuous current of the C characteristic MCB  • operating voltage at AC  — at 50 Hz rated value — at 60 Hz rated value  • operating voltage at DC rated value  • operating voltage at DC rated value  operation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)	• acc. to IEC 60068-2-6	10 500 Hz: 5g
mechanical service life (switching cycles) typical electrical endurance (switching cycles) typical thermal current 10 A  reference code acc. to IEC 81346-2  continuous current of the C characteristic MCB  • operating voltage at AC  — at 50 Hz rated value 5 500 V  — at 60 Hz rated value 5 500 V  • operating voltage 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)	<ul> <li>for railway applications acc. to DIN EN 61373</li> </ul>	Category 1, Class B
electrical endurance (switching cycles) typical  thermal current  10 A  reference code acc. to IEC 81346-2  continuous current of the C characteristic MCB  • operating voltage at AC  — at 50 Hz rated value  — at 60 Hz rated value  • operating voltage at DC rated value  • operating voltage at DC rated value  • operating voltage at DC rated value  operating voltage at DC rated value  operating voltage at DC rated value  The contact reliability  One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)	operating frequency maximum	3 600 1/h
thermal current  reference code acc. to IEC 81346-2  continuous current of the C characteristic MCB  operating voltage at AC  - at 50 Hz rated value  - at 60 Hz rated value  operating voltage at DC rated value  contact reliability  One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)	mechanical service life (switching cycles) typical	10 000 000
reference code acc. to IEC 81346-2  continuous current of the C characteristic MCB  • operating voltage at AC  — at 50 Hz rated value  — at 60 Hz rated value  • operating voltage at DC rated value  5 500 V  • operating voltage 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)	electrical endurance (switching cycles) typical	10 000 000
continuous current of the C characteristic MCB  ● operating voltage at AC  — at 50 Hz rated value  — at 60 Hz rated value  5 500 V  ● operating voltage 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)	thermal current	10 A
operating voltage at AC     — at 50 Hz rated value     — at 60 Hz rated value     5 500 V     operating voltage at DC rated value     5 500 V      operating voltage at DC rated value	reference code acc. to IEC 81346-2	S
<ul> <li>— at 50 Hz rated value 5 500 V</li> <li>— at 60 Hz rated value 5 500 V</li> <li>• operating voltage at DC rated value 5 500 V</li> <li>Power Electronics</li> <li>Contact reliability One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)</li> </ul>	continuous current of the C characteristic MCB	10 A
<ul> <li>— at 60 Hz rated value 5 500 V</li> <li>● operating voltage at DC rated value 5 500 V</li> <li>Power Electronics</li> <li>Contact reliability One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)</li> </ul>	<ul> <li>operating voltage at AC</li> </ul>	
<ul> <li>operating voltage at DC rated value</li> <li>5 500 V</li> <li>Power Electronics</li> <li>contact reliability</li> <li>One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)</li> </ul>	— 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)	— 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)	<ul> <li>operating voltage at DC rated value</li> </ul>	5 500 V
million (5 V, 1 mA)	Power Electronics	
Auxiliary circuit	contact reliability	
	Auxiliary circuit	
design of the contact of auxiliary contacts  Silver alloy	design of the contact of auxiliary contacts	Silver alloy
number of NC contacts for auxiliary contacts 1	number of NC contacts for auxiliary contacts	1
• lagging switching 1	<ul> <li>lagging switching</li> </ul>	1

number of NO contacts for auxiliary contacts	1
leading contact	1
operational current at AC-12	
at 24 V rated value	10 A
<ul> <li>at 48 V rated value</li> </ul>	10 A
• at 110 V rated value	10 A
<ul> <li>at 230 V rated value</li> </ul>	8 A
at 400 V rated value	6 A
operational current at AC-15	
<ul> <li>at 24 V rated value</li> </ul>	6 A
<ul> <li>at 48 V rated value</li> </ul>	6 A
• at 110 V rated value	6 A
<ul> <li>at 230 V rated value</li> </ul>	4 A
<ul> <li>at 400 V rated value</li> </ul>	3 A
<ul> <li>at 500 V rated value</li> </ul>	1.4 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	5 A
operational current at DC-13	
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
onnections/ Terminals	
type of electrical connection	screw-type terminals
type of connectable conductor cross-sections	
<ul> <li>solid with core end processing</li> </ul>	2x (0.5 0.75 mm²)
solid without core end processing	2x (1.0 1.5 mm²)
finely stranded with core end processing	2x (0.5 1.5 mm²)
finely stranded without core end processing	2x (1,0 1,5 mm²)
at AWG cables	2x (18 14)
tightening torque with screw-type terminals	0.8 0.9 N·m
mbient conditions	
ambient temperature during operation	-25 +70 °C
ambient temperature during storage	-40 +80 °C
environmental category during operation acc. to IEC 60721	3M6, 3S2, 3B2, 3C3 (without salt spray), 3K6 (with relative humidity o 10 95%, no condensation in operation permitted)
nstallation/ mounting/ dimensions	
fastening method	front panel mounting
of modules and accessories	Front plate mounting
height	34 mm
width	9.8 mm
depth	49.7 mm
ertificates/ approvals	
oranios, approvaio	Declaration of Conformity
General Product Approval	Declaration of Conformity

**Test Certificates** 

Marine / Shipping

Type Test Certificates/Test Report Special Test Certificate









Marine / Shipping

other



Confirmation

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1400-1AA10-1GA0

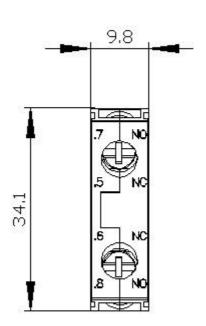
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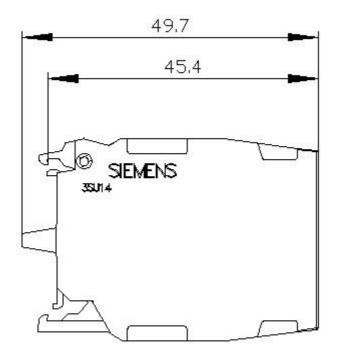
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1400-1AA10-1GA0

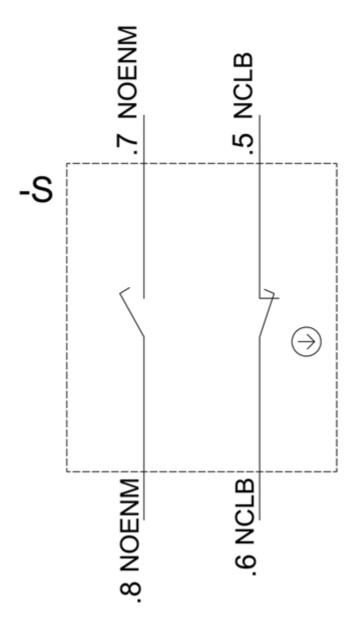
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SU1400-1AA10-1GA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3SU1400-1AA10-1GA0&lang=en







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