3SU1400-1AA10-3LA0

## **Data sheet**



Contact module with 1 contact element, 1 NO, gold-plated contacts, spring-type terminal, for front plate mounting

| product type designation ground type of pollution ground type of voltage of the operating voltage of the operating voltage of the input voltage of the input voltage of the enclosure of the enclosure of the terminal product function positive opening product function positive opening surge voltage of pollution type of voltage of the operating voltage of the operating voltage AC/DC surge voltage resistance active value protection class IP of the enclosure of the enclosure of the terminal IP20 shock resistance oc. to IEC 60088-2-7 for railway applications acc. to DIN EN 61373 Category 1, Class B  vibration resistance oc. to IEC 60088-2-6 of railway applications acc. to DIN EN 61373 Category 1, Class B  cat | product brand name  | SIRIUS ACT                       |
|--|---|----------------------------------|
| Product function positive opening   No   Insulation voltage rated value   500 V  | product designation   | Contact module                   |
| product function positive opening insulation voltage rated value degree of pollution type of voltage of the input voltage of the operating 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 shock resistance ac. to IEC 60068-2-27 for railway applications acc. to DIN EN 61373 vibration resistance of railway applications acc. to DIN EN 61373 Category 1, Class B  vibration resistance operating frequency maximum a 560 1/h 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 - at 60 Hz rated value - at 60 Hz rated value operating voltage at DC rated value - at 60 Hz rated value operating voltage at DC rated value - at 60 Hz rated value operating voltage at DC rated value - at 60 Hz rated | product type designation  | 3SU1                             |
| insulation voltage rated value  degree of pollution  type of voltage  of the operating voltage AC/DC  AC/DC  surge voltage resistance rated value protection class IP of the enclosure if the enclosure if the enclosure  acc. to IEC 60068-2-27 if or railway applications acc. to DIN EN 61373  vibration resistance acc. to IEC 60068-2-6 of ror railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance acc. to IEC 60068-2-6 of ror railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance acc. to IEC 60068-2-6 of ror railway applications acc. to DIN EN 61373  category 1, Class B  operating frequency maximum accurrent by accurrent accurrent accurrent accurrent accurrent by accurrent accurrent accurrent accurrent by accurrent accurrent by accurrent accurrent accurrent by accurrent | General technical data  |                                  |
| degree of pollution type of voltage  | product function positive opening                                 | No                               |
| type of voltage  of the operating voltage  of the input voltage  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  of or railway applications acc. to DIN EN 61373  category 1, Class B  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  operating frequency maximum  accepted iffe (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  operating voltage at DC | insulation voltage rated value                                    | 500 V                            |
| of the operating voltage     of the input voltage     of the input voltage     surge voltage resistance rated value     protection class IP     of the enclosure     of the terminal     input     of the terminal     input     shock resistance     oc. to IEC 60068-2-27     of railway applications acc. to DIN EN 61373     vibration resistance     oc. to IEC 60068-2-6     of railway applications acc. to DIN EN 61373     category 1, Class B     vibration resistance     oc. to IEC 60068-2-6     of railway applications acc. to DIN EN 61373     operating frequency maximum     a 600 1/h     mechanical service life (switching cycles) typical     electrical endurance (switching cycles) typical     old on the maximum of the condition       | degree of pollution   | 3                                |
| of the input voltage     surge voltage resistance rated value     protection class IP     of the enclosure     of the terminal     inp20     shock resistance     oac, to IEC 60068-2-27     of for railway applications acc, to DIN EN 61373     vibration resistance     oacc, to IEC 60068-2-6     of railway applications acc, to DIN EN 61373     Category 1, Class B  vibration resistance     oacc, 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     thermal current     10 A  reference code acc, to IEC 81346-2     scontinuous current of the C characteristic MCB     operating voltage at AC  | type of voltage   |                                  |
| surge voltage resistance rated value  protection class IP  of the enclosure  of the terminal  shock resistance  acc. to IEC 60068-2-27  of or 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  of 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 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 operation 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 number of NC contacts for auxiliary contacts  | <ul> <li>of the operating voltage</li> </ul>                      | AC/DC                            |
| protection class IP  | of the input voltage  | AC/DC                            |
| of the enclosure     of the terminal     shock resistance     acc. to IEC 60068-2-27     of or 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     of or 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     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 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)  Auxiliary circuit  design of the contact of auxiliary contacts     number of NC contacts for auxiliary contacts  | surge voltage resistance rated value                              | 6 kV                             |
| of the terminal     shock resistance         o acc. to IEC 60068-2-27         of railway applications acc. to DIN EN 61373  vibration resistance         o acc. to IEC 60068-2-6         of railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance         o acc. 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 thermal current         10 A  reference code acc. to IEC 81346-2 continuous current of the C characteristic MCB          operating voltage at AC   | 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  10 500 Hz: 5g  • 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 10 000 000  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 5 500 V  • operating voltage at DC rated value  • 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)  Auxiliary circuit  design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts 0   | <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  category 1, Class B  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 electrical endurance (switching cycles) typical thermal current  10 000 000  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 5 500 V  • operating voltage at DC rated value  • operating voltage at DC 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)  Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts  0   | of the terminal   | IP20                             |
| 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          operating frequency maximum             3 600 1/h         mechanical service life (switching cycles) typical         electrical endurance (switching cycles) typical         electrical endurance (switching cycles) typical   | shock resistance  |                                  |
| 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 — at 60 Hz rated value  • operating voltage at DC rated value  • operati | • acc. to IEC 60068-2-27  | Sinusoidal half-wave 50g / 11 ms |
| 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 10 000 000  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   | <ul> <li>for railway applications acc. to DIN EN 61373</li> </ul> | Category 1, Class B              |
| of 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  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 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)  Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts  0   | • 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 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  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 number of NC contacts for auxiliary contacts  0   | <ul> <li>for railway applications acc. to DIN EN 61373</li> </ul> | Category 1, Class B              |
| 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 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)  Auxiliary circuit  design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts  0  | 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  substituting the 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  number of NC contacts for auxiliary contacts  0   | 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  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  number of NC contacts for auxiliary contacts   | electrical endurance (switching cycles) typical                   | 10 000 000                       |
| ontinuous 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)  Auxiliary circuit  design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts  0   | thermal current   | 10 A                             |
| 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      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 number of NC contacts for auxiliary contacts  0  | reference code acc. to IEC 81346-2                                | S                                |
| - 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)  Auxiliary circuit  design of the contact of auxiliary contacts Gold-plated  number of NC contacts for auxiliary contacts 0  | continuous current of the C characteristic MCB                    | 10 A                             |
| — 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)  Auxiliary circuit  design of the contact of auxiliary contacts Gold-plated number of NC contacts for auxiliary contacts 0  | <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> <li>Auxiliary circuit</li> <li>design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts</li> <li>0</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)  Auxiliary circuit  design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts  0   | — 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 number of NC contacts for auxiliary contacts  0  | <ul> <li>operating voltage at DC rated value</li> </ul>           | 5 500 V                          |
| million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts  0  | Power Electronics   |                                  |
| design of the contact of auxiliary contacts  Gold-plated  number of NC contacts for auxiliary contacts  0  | contact reliability   |                                  |
| number of NC contacts for auxiliary contacts 0   | Auxiliary circuit   |                                  |
|  | design of the contact of auxiliary contacts                       | Gold-plated                      |
| • lagging switching 0  | number of NC contacts for auxiliary contacts                      | 0                                |
|  | <ul><li>lagging switching</li></ul>                               | 0                                |

| number of NO contacts for auxiliary contacts                                | 1   |
|---|---|
| • leading contact   | 0   |
| operational current at AC-12  |   |
| at 24 V rated value   | 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  | 40.4  |
| at 24 V rated value   | 10 A  |
| at 48 V rated value   | 5 A   |
| • at 110 V rated value  | 2.5 A   |
| <ul> <li>at 230 V rated value</li> </ul>                                    | 1 A   |
| • at 400 V rated value  | 0.3 A   |
| at 500 V rated value  | 0.3 A   |
| operational current at DC-13  |   |
| at 24 V rated value   | 3 A   |
| at 48 V rated value   | 1.5 A   |
| <ul> <li>at 110 V rated value</li> </ul>                                    | 0.7 A   |
| <ul> <li>at 230 V rated value</li> </ul>                                    | 0.3 A   |
| <ul><li>at 400 V rated value</li></ul>                                      | 0.1 A   |
| <ul> <li>at 500 V rated value</li> </ul>                                    | 0.1 A   |
| Connections/ Terminals  |   |
| type of electrical connection   | spring-loaded terminals   |
| type of connectable conductor cross-sections                                |   |
| <ul> <li>solid without core end processing</li> </ul>                       | 2x (0.25 1.5 mm²)   |
| <ul> <li>finely stranded with core end processing</li> </ul>                | 2x (0.25 0.75 mm²)  |
| <ul> <li>finely stranded without core end processing</li> </ul>             | 2x (0.25 1.5 mm²)   |
| at AWG cables   | 2x (24 16)  |
| Ambient conditions  |   |
| ambient temperature during operation  | -25 +70 °C  |
| ambient temperature during operation     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 of 10 95%, no condensation in operation permitted) |
| Installation/ mounting/ dimensions  |   |
| fastening method  | front panel mounting  |
| of modules and accessories  | Front plate mounting  |
| height  | 36 mm   |
| width   | 9.8 mm  |
| depth   | 27.7 mm   |
| ·   | 21.1 111111   |
| Certificates/ approvals   |   |
| General Product Approval  | Declaration of Conformity   |





<u>KC</u>





Miscellaneous

Test Certificates Marine / Shipping

Special Test Certificate Type Test
Certificates/Test
Report









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=3SU1400-1AA10-3LA0

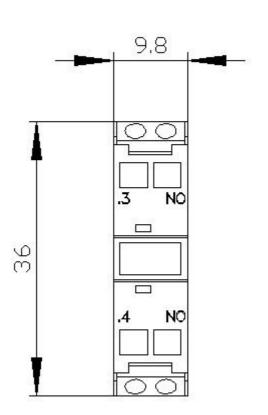
Cax online generator

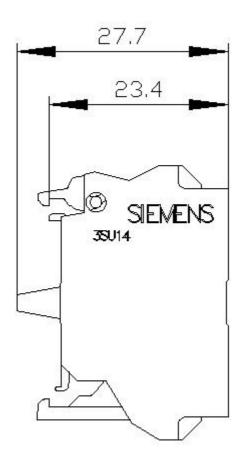
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1400-1AA10-3LA0

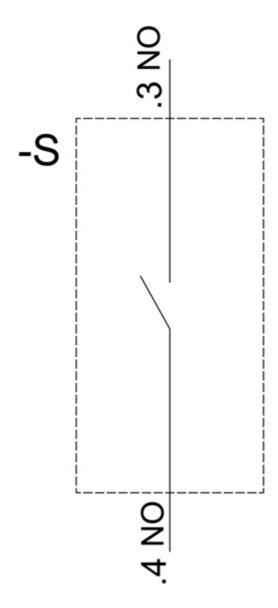
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SU1400-1AA10-3LA0

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=3SU1400-1AA10-3LA0&lang=en







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