

Siemens  
EcoTech



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



|                                                    |                                   |
|----------------------------------------------------|-----------------------------------|
| product brand name                                 | SIRIUS ACT                        |
| product designation                                | Contact module                    |
| product type designation                           | 3SU1                              |
| Contact block/ lampholder                          |                                   |
| socket design                                      | other                             |
| General technical data                             |                                   |
| product function positive opening                  | Yes                               |
| 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                             |
| surge voltage resistance rated value               | 6 kV                              |
| protection class IP                                |                                   |
| • of the enclosure                                 | IP40                              |
| • of the terminal                                  | IP20, clamping screw tightened    |
| shock resistance                                   |                                   |
| • according to IEC 60068-2-27                      | sinusoidal half-wave 15 g / 11 ms |
| • for railway applications according to EN 61373   | Category 1, Class B               |
| vibration resistance                               |                                   |
| • according to IEC 60068-2-6                       | 10 ... 500 Hz: 5 g                |
| • 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                        |
| 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 (day/month/year)            | 10/01/2014                        |
| Net Weight                                         | 17.5 g                            |
| operating voltage                                  |                                   |
| • at AC                                            |                                   |
| — 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                                  |                                   |

|                                                                |                                                                                                                             |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>contact reliability</b>                                     | One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)                                  |
| <b>Auxiliary circuit</b>                                       |                                                                                                                             |
| <b>design of the contact of auxiliary contacts</b>             | Silver alloy                                                                                                                |
| <b>number of NC contacts for auxiliary contacts</b>            | 1                                                                                                                           |
| • lagging switching                                            | 0                                                                                                                           |
| <b>number of NO contacts for auxiliary contacts</b>            | 1                                                                                                                           |
| • leading contact                                              | 0                                                                                                                           |
| <b>operational current at AC-12</b>                            |                                                                                                                             |
| • 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                                                                                                                         |
| <b>operational current at AC-15</b>                            |                                                                                                                             |
| • 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                                                                                                                       |
| <b>operational current at DC-12</b>                            |                                                                                                                             |
| • 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                                         | 1 A                                                                                                                         |
| • at 400 V rated value                                         | 0.3 A                                                                                                                       |
| • at 500 V rated value                                         | 0.3 A                                                                                                                       |
| <b>operational current at DC-13</b>                            |                                                                                                                             |
| • 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                                                                                                                       |
| <b>Connections/ Terminals</b>                                  |                                                                                                                             |
| <b>type of electrical connection</b>                           | screw terminal                                                                                                              |
| <b>type of connectable conductor cross-sections</b>            |                                                                                                                             |
| • solid with core end processing                               | 2x (0.5 ... 0.75 mm <sup>2</sup> )                                                                                          |
| • solid without core end processing                            | 2x (1.0 ... 1.5 mm <sup>2</sup> )                                                                                           |
| • finely stranded with core end processing                     | 2x (0.5 ... 1.5 mm <sup>2</sup> )                                                                                           |
| • finely stranded without core end processing                  | 2x (1.0 ... 1.5 mm <sup>2</sup> )                                                                                           |
| • for AWG cables                                               | 2x (18 ... 14)                                                                                                              |
| tightening torque with screw-type terminals                    | 0.8 ... 0.9 N·m                                                                                                             |
| <b>Ambient conditions</b>                                      |                                                                                                                             |
| <b>ambient temperature</b>                                     |                                                                                                                             |
| • during operation                                             | -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) |
| <b>Installation/ mounting/ dimensions</b>                      |                                                                                                                             |
| <b>fastening method</b>                                        | front plate mounting                                                                                                        |
| • of modules and accessories                                   | Front plate mounting                                                                                                        |
| <b>height</b>                                                  | 34 mm                                                                                                                       |
| <b>width</b>                                                   | 9.8 mm                                                                                                                      |
| <b>depth</b>                                                   | 49.7 mm                                                                                                                     |
| <b>suitability for integration</b>                             |                                                                                                                             |
| • plastic enclosure                                            | No                                                                                                                          |
| • metal enclosure                                              | No                                                                                                                          |

| Environmental footprint                                |           |
|--------------------------------------------------------|-----------|
| Environmental Product Declaration(EPD)                 | Yes       |
| global warming potential [CO2 eq] total                | 0.787 kg  |
| global warming potential [CO2 eq] during manufacturing | 0.566 kg  |
| global warming potential [CO2 eq] during operation     | 0.235 kg  |
| global warming potential [CO2 eq] after end of life    | -0.015 kg |

#### Approvals Certificates

| Environmental Product Declaration                          |            |
|------------------------------------------------------------|------------|
| • global warming potential [CO2 eq] / during manufacturing | 0.566 kg   |
| • global warming potential [CO2 eq] / during operation     | 0.235 kg   |
| • global warming potential [CO2 eq] / after end of life    | -0.0145 kg |
| • global warming potential [CO2 eq] / total                | 0.787 kg   |

| Environment | General Product Approval |
|-------------|--------------------------|
|-------------|--------------------------|

[Environmental Confirmations](#)



| General Product Approval | Test Certificates |
|--------------------------|-------------------|
|--------------------------|-------------------|



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

| Maritime application | other |
|----------------------|-------|
|----------------------|-------|



[Confirmation](#)



#### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3SU1400-1AA10-1FA0>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1400-1AA10-1FA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1400-1AA10-1FA0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1400-1AA10-1FA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1400-1AA10-1FA0&lang=en)



