

Siemens  
EcoTech



LED module with integrated LED 6-24V AC/DC red, Spring-loaded terminal, for front plate mounting



|                                                      |                                   |
|------------------------------------------------------|-----------------------------------|
| product brand name                                   | SIRIUS ACT                        |
| product designation                                  | LED module                        |
| product type designation                             | 3SU1                              |
| General technical data                               |                                   |
| product component                                    |                                   |
| • diode                                              | Yes                               |
| • lamp transformer                                   | No                                |
| • light source                                       | Yes                               |
| • series resistor                                    | No                                |
| insulation voltage rated value                       | 320 V                             |
| degree of pollution                                  | 3                                 |
| type of voltage of the operating voltage             | AC/DC                             |
| • for actuation                                      | AC/DC                             |
| surge voltage resistance rated value                 | 4 kV                              |
| consumed current maximum                             | 30 mA                             |
| protection class IP                                  |                                   |
| • of the enclosure                                   | IP40                              |
| • of the terminal                                    | IP20                              |
| 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 period typical                             | 100 000 h                         |
| reference code according to IEC 81346-2              | P                                 |
| Substance Prohibitance (day/month/year)              | 10/01/2014                        |
| SVHC substance name                                  | Melamine CAS-No. 108-78-1         |
| Net Weight                                           | 9 g                               |
| operating voltage                                    |                                   |
| • at AC                                              |                                   |
| — at 50 Hz rated value                               | 6 ... 24 V                        |
| — at 60 Hz rated value                               | 6 ... 24 V                        |
| • at DC rated value                                  | 6 ... 24 V                        |
| relative positive tolerance of the operating voltage | 20 %                              |
| relative negative tolerance of the operating voltage | 20 %                              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                            |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Control circuit/ Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                            |                                                                                       |                                                                                       |
| inrush current maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2 A                                                                                                        |                                                                                       |                                                                                       |
| Connections/ Terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                            |                                                                                       |                                                                                       |
| type of electrical connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | spring-loaded terminals                                                                                    |                                                                                       |                                                                                       |
| type of connectable conductor cross-sections                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                            |                                                                                       |                                                                                       |
| • solid without core end processing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2x (0.25 ... 1.5 mm²)                                                                                      |                                                                                       |                                                                                       |
| • finely stranded with core end processing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2x (0.25 ... 0.75 mm²)                                                                                     |                                                                                       |                                                                                       |
| • finely stranded without core end processing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2x (0.25 ... 1.5 mm²)                                                                                      |                                                                                       |                                                                                       |
| • for AWG cables                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2x (24 ... 16)                                                                                             |                                                                                       |                                                                                       |
| connectable conductor cross-section finely stranded with core end processing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.25 ... 0.75 mm²                                                                                          |                                                                                       |                                                                                       |
| Lamp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                            |                                                                                       |                                                                                       |
| type of light source                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LED                                                                                                        |                                                                                       |                                                                                       |
| color of the light source                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | red                                                                                                        |                                                                                       |                                                                                       |
| light intensity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 450 ... 1 120 mcd                                                                                          |                                                                                       |                                                                                       |
| ATEX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                            |                                                                                       |                                                                                       |
| certificate of suitability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                            |                                                                                       |                                                                                       |
| • ATEX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No                                                                                                         |                                                                                       |                                                                                       |
| • IECEx                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No                                                                                                         |                                                                                       |                                                                                       |
| Ambient conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                            |                                                                                       |                                                                                       |
| ambient temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                            |                                                                                       |                                                                                       |
| • during operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -25 ... +70 °C                                                                                             |                                                                                       |                                                                                       |
| • during storage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -40 ... +80 °C                                                                                             |                                                                                       |                                                                                       |
| environmental category during operation according to IEC 60721                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 ... 95%, no condensation in operation permitted) |                                                                                       |                                                                                       |
| Installation/ mounting/ dimensions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                            |                                                                                       |                                                                                       |
| fastening method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                            |                                                                                       |                                                                                       |
| • of modules and accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Front plate mounting                                                                                       |                                                                                       |                                                                                       |
| height                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 36 mm                                                                                                      |                                                                                       |                                                                                       |
| width                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9.8 mm                                                                                                     |                                                                                       |                                                                                       |
| depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 29.4 mm                                                                                                    |                                                                                       |                                                                                       |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                            |                                                                                       |                                                                                       |
| <div><div><a href="#">Environmental Confirmations</a></div><div></div><div></div><div></div><div></div><div></div></div> |                                                                                                            |                                                                                       |                                                                                       |
| General Product Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EMV                                                                                                        | Test Certificates                                                                     | Maritime application                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                         | <a href="#">Type Test Certificates/Test Report</a>                                    | <a href="#">Special Test Certificate</a>                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                            |  |  |
| Maritime application                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                            | other                                                                                 |                                                                                       |

#### 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=3SU1401-1BG20-3AA0>

##### Cax online generator

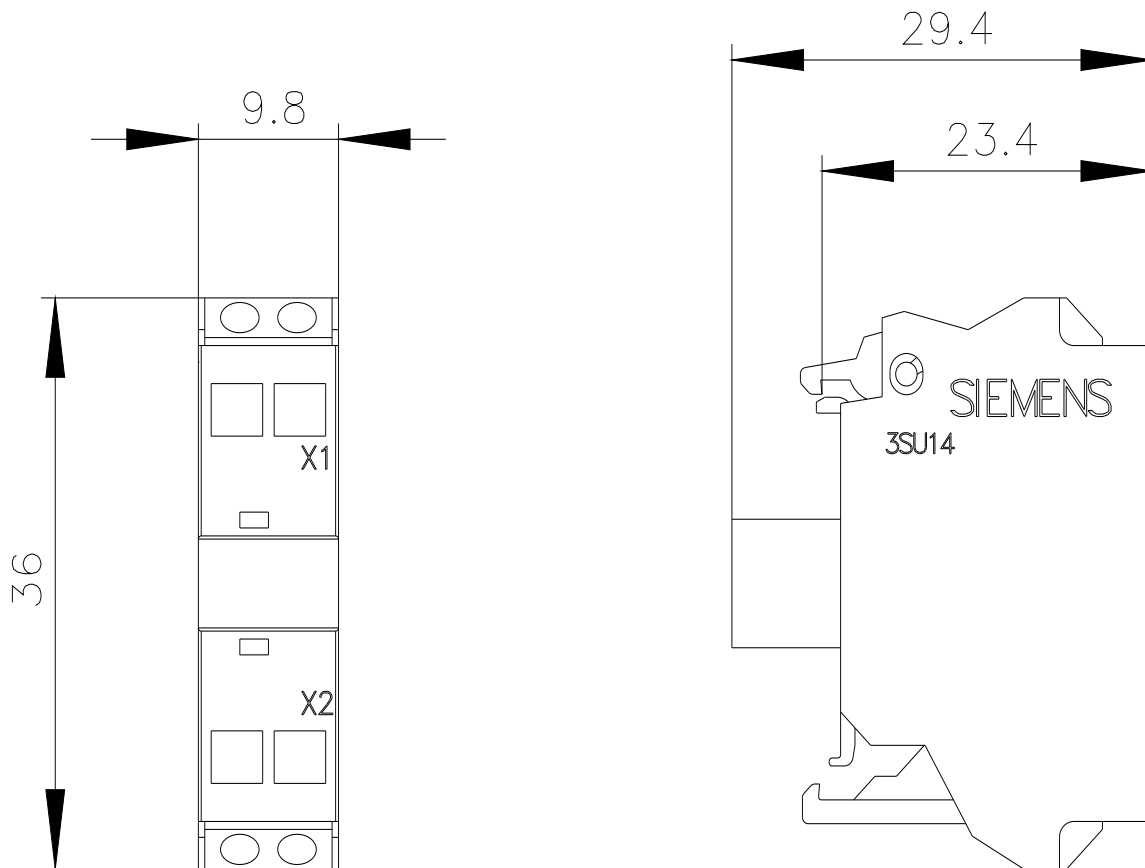
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-1BG20-3AA0>

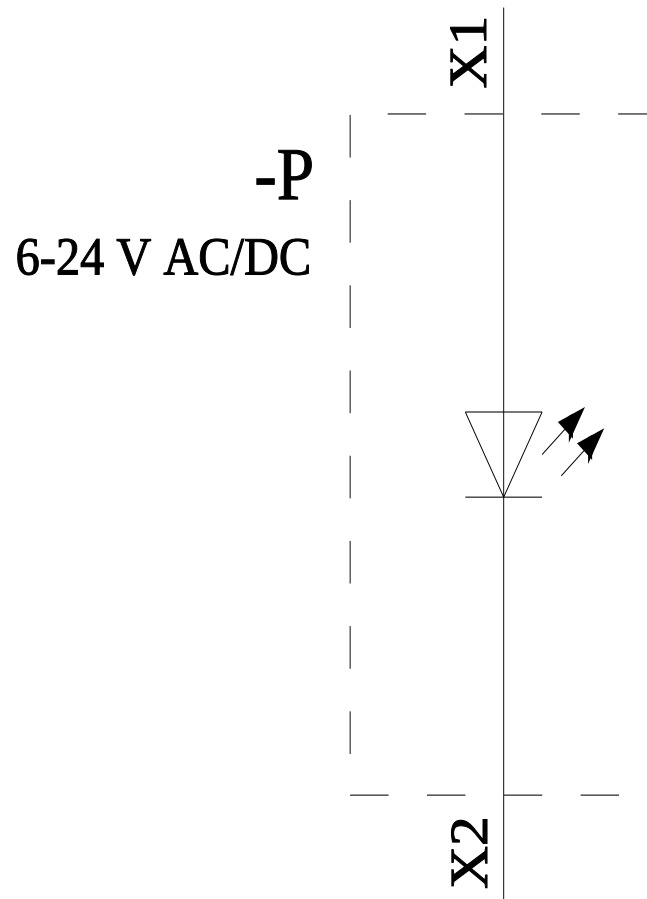
##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-1BG20-3AA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1401-1BG20-3AA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1401-1BG20-3AA0&lang=en)





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