



SIRIUS ACT with PROFINET: standard interface module 24 V DC, spring-loaded terminal, front plate mounting 1 to 20 terminal modules connectable

|                                                                |                                                                         |
|----------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>product brand name</b>                                      | SIRIUS ACT                                                              |
| <b>product designation</b>                                     | Interface module for PROFINET                                           |
| <b>product type designation</b>                                | 3SU1                                                                    |
| <b>Display</b>                                                 |                                                                         |
| <b>display version</b>                                         |                                                                         |
| • for diagnostic function: Supply voltage monitoring power LED | Yes                                                                     |
| • status Tx/Rx link                                            | Yes                                                                     |
| <b>General technical data</b>                                  |                                                                         |
| <b>product function</b>                                        |                                                                         |
| • reverse polarity protection                                  | Yes                                                                     |
| • diagnostics function                                         | Yes                                                                     |
| • alarms                                                       | Yes                                                                     |
| • I&M data                                                     | Yes; I&M0 ... I&M3                                                      |
| <b>firmware version</b>                                        | 2.1.4                                                                   |
| <b>hardware version</b>                                        | 1                                                                       |
| <b>configuration function with dataset</b>                     | Yes                                                                     |
| <b>software version with STEP 7 in the TIA Portal required</b> | Integrated in TIA Portal Version 14 SP1 or higher (HSP for V13 and V14) |
| <b>number of units per rack maximum</b>                        | 20                                                                      |
| <b>number of submodules per station maximum</b>                | 24                                                                      |
| <b>power loss [W] typical</b>                                  | 0.67 W                                                                  |
| <b>insulation voltage rated value</b>                          | 30 V                                                                    |
| <b>degree of pollution</b>                                     | 3                                                                       |
| <b>type of voltage</b>                                         |                                                                         |
| • of the operating voltage                                     | DC                                                                      |
| • of the input voltage                                         | DC                                                                      |
| <b>surge voltage resistance rated value</b>                    | 0.8 kV                                                                  |
| <b>consumed current</b>                                        |                                                                         |
| • maximum                                                      | 100 mA                                                                  |
| • rated value                                                  | 28 mA                                                                   |
| <b>protection class IP</b>                                     | IP20                                                                    |
| <b>shock resistance</b>                                        |                                                                         |
| • according to IEC 60068-2-27                                  | sinusoidal half-wave 15g / 11 ms                                        |
| • for railway applications according to EN 61373               | Category 1, Class B                                                     |
| <b>vibration resistance</b>                                    |                                                                         |
| • according to IEC 60068-2-6                                   | 10 ... 500 Hz: 5g                                                       |

|                                                                                           |                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • for railway applications according to EN 61373                                          | Category 1, Class B                                                                                                                                                                               |
| <b>reference code according to IEC 81346-2</b>                                            | K                                                                                                                                                                                                 |
| <b>Substance Prohibitance (Date)</b>                                                      | 12/19/2016                                                                                                                                                                                        |
| <b>SVHC substance name</b>                                                                | Lead - 7439-92-1<br>Lead monoxide (lead oxide) - 1317-36-8<br>2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 |
| <b>Net Weight</b>                                                                         | 129 g                                                                                                                                                                                             |
| operating voltage rated value minimum                                                     | 20.4 V                                                                                                                                                                                            |
| <b>I<sup>2</sup>t value</b>                                                               | 0.008 A <sup>2</sup> ·s                                                                                                                                                                           |
| <b>Supply voltage</b>                                                                     |                                                                                                                                                                                                   |
| supply voltage at DC rated value                                                          | 24 V                                                                                                                                                                                              |
| <b>Communication/ Protocol</b>                                                            |                                                                                                                                                                                                   |
| <b>protocol is supported</b>                                                              |                                                                                                                                                                                                   |
| • PROFINET IO protocol                                                                    | Yes                                                                                                                                                                                               |
| • PROFIsafe protocol                                                                      | No                                                                                                                                                                                                |
| <b>product function at the Ethernet interface</b>                                         |                                                                                                                                                                                                   |
| • Autocrossover                                                                           | Yes                                                                                                                                                                                               |
| • Autonegotiation                                                                         | Yes                                                                                                                                                                                               |
| protocol at the 1st interface media redundancy protocol                                   | No                                                                                                                                                                                                |
| product function at the 1st interface PROFINET IO device                                  | Yes                                                                                                                                                                                               |
| <b>product function of the PROFINET IO device is supported PROFINET system redundancy</b> | No                                                                                                                                                                                                |
| <b>service as PROFINET IO device</b>                                                      |                                                                                                                                                                                                   |
| • prioritized startup                                                                     | No                                                                                                                                                                                                |
| • isochronous mode                                                                        | No                                                                                                                                                                                                |
| • supports Shared Device                                                                  | No                                                                                                                                                                                                |
| • supports PROFIenergy                                                                    | No                                                                                                                                                                                                |
| • IRT                                                                                     | No                                                                                                                                                                                                |
| • MRP                                                                                     | No                                                                                                                                                                                                |
| • MRPD                                                                                    | No                                                                                                                                                                                                |
| <b>service for open IE communication</b>                                                  |                                                                                                                                                                                                   |
| • LLDP                                                                                    | Yes                                                                                                                                                                                               |
| • SNMP                                                                                    | Yes                                                                                                                                                                                               |
| • TCP/IP                                                                                  | Yes                                                                                                                                                                                               |
| <b>GSD version/revision with PROFINET required</b>                                        | V2.34                                                                                                                                                                                             |
| <b>transmission mode for Industrial Ethernet</b>                                          | PROFINET with 100 Mbps full duplex (100BASE-TX)                                                                                                                                                   |
| <b>network load class according to PROFINET</b>                                           | I                                                                                                                                                                                                 |
| <b>specification for Security Level 1 test according to PROFINET</b>                      | Resilient to network loading                                                                                                                                                                      |
| <b>Control circuit/ Control</b>                                                           |                                                                                                                                                                                                   |
| <b>inrush current maximum</b>                                                             | 16 A                                                                                                                                                                                              |
| <b>Galvanic isolation</b>                                                                 |                                                                                                                                                                                                   |
| galvanic isolation between PROFINET and all other circuits                                | Yes                                                                                                                                                                                               |
| <b>Inputs/ Outputs</b>                                                                    |                                                                                                                                                                                                   |
| <b>number of digital inputs</b>                                                           | 0                                                                                                                                                                                                 |
| • safety-related                                                                          | 0                                                                                                                                                                                                 |
| <b>number of digital outputs</b>                                                          | 0                                                                                                                                                                                                 |
| <b>Connections/ Terminals</b>                                                             |                                                                                                                                                                                                   |
| <b>type of electrical connection</b>                                                      | spring-loaded terminals                                                                                                                                                                           |
| <b>connectable conductor cross-section for auxiliary contacts</b>                         |                                                                                                                                                                                                   |
| • solid or stranded                                                                       | 0.2 ... 2.5 mm <sup>2</sup>                                                                                                                                                                       |
| • finely stranded with core end processing maximum                                        | 2.5 mm <sup>2</sup>                                                                                                                                                                               |
| <b>connectable conductor cross-section</b>                                                |                                                                                                                                                                                                   |
| • solid                                                                                   | 0.2 ... 2.5 mm <sup>2</sup>                                                                                                                                                                       |
| • solid with core end processing                                                          | 0.2 ... 2.5 mm <sup>2</sup>                                                                                                                                                                       |
| • finely stranded with core end processing                                                | 0.25 ... 2.5 mm <sup>2</sup>                                                                                                                                                                      |
| • finely stranded without core end processing                                             | 0.2 ... 2.5 mm <sup>2</sup>                                                                                                                                                                       |
| <b>Safety related data</b>                                                                |                                                                                                                                                                                                   |
| product function suitable for safety function                                             | No                                                                                                                                                                                                |

|                                             |                             |
|---------------------------------------------|-----------------------------|
| service life maximum                        | 20 a                        |
| <b>Interfaces</b>                           |                             |
| <b>design of the interface</b>              |                             |
| • Ethernet interface                        | Yes; for Ethernet services  |
| • Fast Ethernet interface                   | Yes; PROFINET with 100 Mbps |
| <b>interface design 1</b>                   |                             |
| • integrated switch                         | No                          |
| • RJ45 (Ethernet)                           | Yes                         |
| <b>number of ports at the 1st interface</b> | 1                           |
| number of interfaces according to PROFINET  | 1                           |

|                                                                                      |                                                                                                       |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Ambient conditions</b>                                                            |                                                                                                       |
| <b>ambient temperature</b>                                                           |                                                                                                       |
| • during operation                                                                   | -25 ... +60 °C                                                                                        |
| • during storage                                                                     | -40 ... +80 °C                                                                                        |
| environmental category during operation according to IEC 60721                       | 3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 ... 95%, no condensation in operation permitted) |
| <b>explosion protection marking for intrinsic safety of related equipment EEx ia</b> | No                                                                                                    |
| <b>explosion protection marking for intrinsic safety of related equipment EEx ib</b> | No                                                                                                    |

|                                             |                      |
|---------------------------------------------|----------------------|
| <b>Installation/ mounting/ dimensions</b>   |                      |
| fastening method of modules and accessories | Front plate mounting |
| <b>height</b>                               | 80.1 mm              |
| <b>width</b>                                | 40 mm                |
| <b>depth</b>                                | 72.1 mm              |

|                                                            |                                 |
|------------------------------------------------------------|---------------------------------|
| <b>Approvals Certificates</b>                              |                                 |
| 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                        |
| <b>Environment</b>                                         | <b>General Product Approval</b> |



[Environmental Confirmations](#)



|                                 |                          |                             |
|---------------------------------|--------------------------|-----------------------------|
| <b>General Product Approval</b> | <b>Test Certificates</b> | <b>Maritime application</b> |
|---------------------------------|--------------------------|-----------------------------|



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



|                             |              |                                 |
|-----------------------------|--------------|---------------------------------|
| <b>Maritime application</b> | <b>other</b> | <b>Industrial Communication</b> |
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[Confirmation](#)

[PROFINET](#)

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| <b>Further information</b> |
|----------------------------|

#### Information on the packaging

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

#### Information for data generation and storage

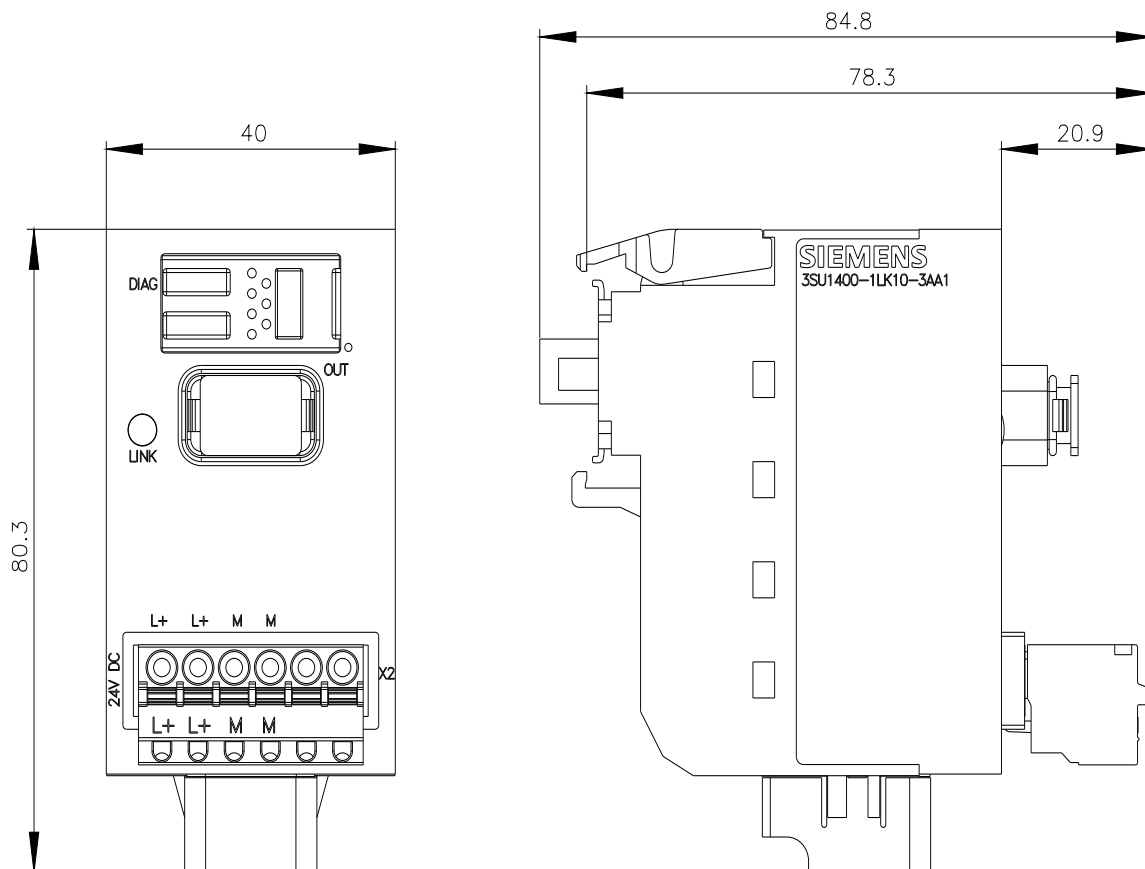
<https://support.industry.siemens.com/cs/ww/en/view/109995012>

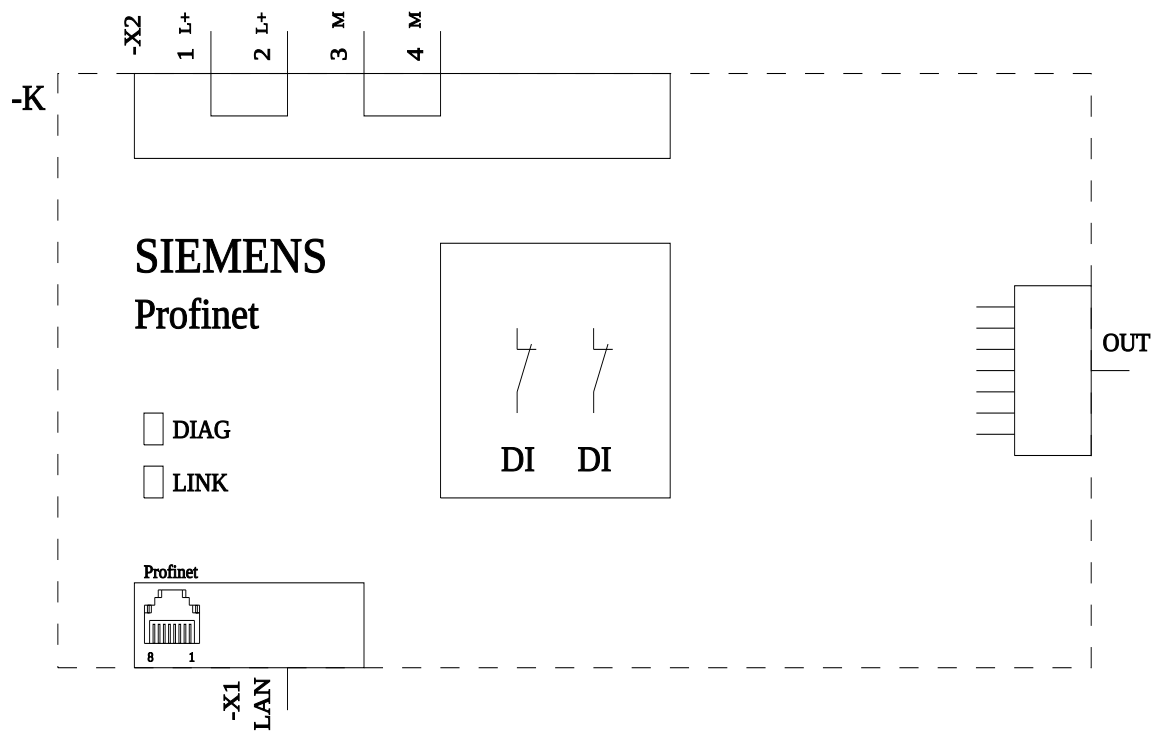
#### Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

#### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1400-1LK10-3AA1>





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