

Siemens  
EcoTech



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



product brand name	SIRIUS ACT
product designation	Interface module for PROFINET
product type designation	3SU1
<b>Display</b>	
display version	
<ul style="list-style-type: none"> <li>for diagnostic function: Supply voltage monitoring power LED</li> </ul>	Yes
<ul style="list-style-type: none"> <li>status Tx/Rx link</li> </ul>	Yes
<b>General technical data</b>	
product function	
<ul style="list-style-type: none"> <li>reverse polarity protection</li> </ul>	Yes
<ul style="list-style-type: none"> <li>diagnostics function</li> </ul>	Yes
<ul style="list-style-type: none"> <li>alarms</li> </ul>	Yes
<ul style="list-style-type: none"> <li>I&amp;M data</li> </ul>	Yes; I&M0 ... I&M3
firmware version	2.1.4
hardware version	1
configuration function with dataset	Yes
software version with STEP 7 in the TIA Portal required	Integrated in TIA Portal Version 14 SP1 or higher (HSP for V13 and V14)
number of units per rack maximum	20
number of submodules per station maximum	24
power loss [W] typical	0.67 W
insulation voltage rated value	30 V
degree of pollution	3
type of voltage	
<ul style="list-style-type: none"> <li>of the operating voltage</li> </ul>	DC
<ul style="list-style-type: none"> <li>of the input voltage</li> </ul>	DC
surge voltage resistance rated value	0.8 kV
consumed current	
<ul style="list-style-type: none"> <li>maximum</li> </ul>	100 mA
<ul style="list-style-type: none"> <li>rated value</li> </ul>	28 mA
protection class IP	IP20
shock resistance	
<ul style="list-style-type: none"> <li>according to IEC 60068-2-27</li> </ul>	sinusoidal half-wave 15g / 11 ms
<ul style="list-style-type: none"> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
vibration resistance	
<ul style="list-style-type: none"> <li>according to IEC 60068-2-6</li> </ul>	10 ... 500 Hz: 5g
<ul style="list-style-type: none"> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B

reference code according to IEC 81346-2	K
Substance Prohibitance (Date)	12/19/2016
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5
Weight	120 g
operating voltage rated value minimum	20.4 V
I2t value	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
• PROFI-safe 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>	1
<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>AWG number as coded connectable conductor cross section</b>	30 ... 12
<b>Safety related data</b>	
product function suitable for safety function	No
<b>service life maximum</b>	20 a
<b>Interfaces</b>	

<b>design of the interface</b>	
<ul style="list-style-type: none"> <li>Ethernet interface</li> <li>Fast Ethernet interface</li> </ul>	<p>Yes; for Ethernet services</p> <p>Yes; PROFINET with 100 Mbps</p>
<b>interface design 1</b>	
<ul style="list-style-type: none"> <li>integrated switch</li> <li>RJ45 (Ethernet)</li> </ul>	<p>No</p> <p>Yes</p>
<b>number of ports at the 1st interface</b>	1
number of interfaces according to PROFINET	1

#### Ambient conditions

<b>ambient temperature</b>	
<ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> </ul>	<p>-25 ... +60 °C</p> <p>-40 ... +80 °C</p>
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

#### 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
Siemens Eco Profile (SEP)	Siemens EcoTech

#### Installation/ mounting/ dimensions

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

#### Approvals Certificates

<b>General Product Approval</b>	<b>Test Certificates</b>
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[Confirmation](#)



[Type Test Certificates/Test Report](#)

<b>Test Certificates</b>	<b>other</b>	<b>Environment</b>	<b>Industrial Communication</b>
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[Special Test Certificate](#)

[Confirmation](#)



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[Environmental Confirmations](#)

[PROFINET](#)

#### Further information

##### Information on the packaging

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

##### 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>

##### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1400-1LK10-3AA1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1400-1LK10-3AA1>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1400-1LK10-3AA1&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1400-1LK10-3AA1&lang=en)



