



SIRIUS ACT with PROFINET: standard interface module 24 V DC, screw 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> <li>status Tx/Rx link</li> </ul>	
	Yes	
	Yes	
<b>General technical data</b>		
product function	<ul style="list-style-type: none"> <li>reverse polarity protection</li> <li>diagnostics function</li> <li>alarms</li> <li>I&amp;M data</li> </ul>	
	Yes	
	Yes	
	Yes	
	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> <li>of the input voltage</li> </ul>	
	DC	
	DC	
surge voltage resistance rated value	0.8 kV	
consumed current	<ul style="list-style-type: none"> <li>maximum</li> <li>rated value</li> </ul>	
	100 mA	
	28 mA	
protection class IP	IP20, clamping screw tightened	
shock resistance	<ul style="list-style-type: none"> <li>according to IEC 60068-2-27</li> <li>for railway applications according to EN 61373</li> </ul>	
	sinusoidal half-wave 15g / 11 ms	
	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	

• 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 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5
<b>Net Weight</b>	137 g
operating voltage rated value minimum	20.4 V
<b>I<sub>2t</sub> 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>	screw terminal
<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>tightening torque with screw-type terminals</b>	0.5 ... 0.6 N·m
<b>Safety related data</b>	

product function suitable for safety function	No
service life maximum	20 a
<b>Interfaces</b>	
design of the interface	
• Ethernet interface	Yes; for Ethernet services
• Fast Ethernet interface	Yes; PROFINET with 100 Mbps
interface design 1	
• integrated switch	No
• RJ45 (Ethernet)	Yes
number of ports at the 1st interface	1
number of interfaces according to PROFINET	1
<b>Ambient conditions</b>	
ambient temperature	
• 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)
explosion protection marking for intrinsic safety of related equipment EEx ia	No
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<b>Installation/ mounting/ dimensions</b>	
fastening method of modules and accessories	Front plate mounting
height	80.1 mm
width	40 mm
depth	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

**Environment** **General Product Approval**



Siemens  
EcoTech



[Environmental Con-  
firmations](#)



General Product Approval	Test Certificates	Maritime application
	<a href="#">Type Test Certific- ates/Test Report</a> <a href="#">Special Test Certific- ate</a>	 LRS

Maritime application	other	Industrial Communication
		<a href="#">Confirmation</a> <a href="#">PROFINET</a>

<b>Further information</b>
Information on the packaging <a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a>
Information for data generation and storage <a href="https://support.industry.siemens.com/cs/ww/en/view/109995012">https://support.industry.siemens.com/cs/ww/en/view/109995012</a>
Information- and Downloadcenter (Catalogs, Brochures,...) <a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a>
Industry Mall (Online ordering system)

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

Cax online generator

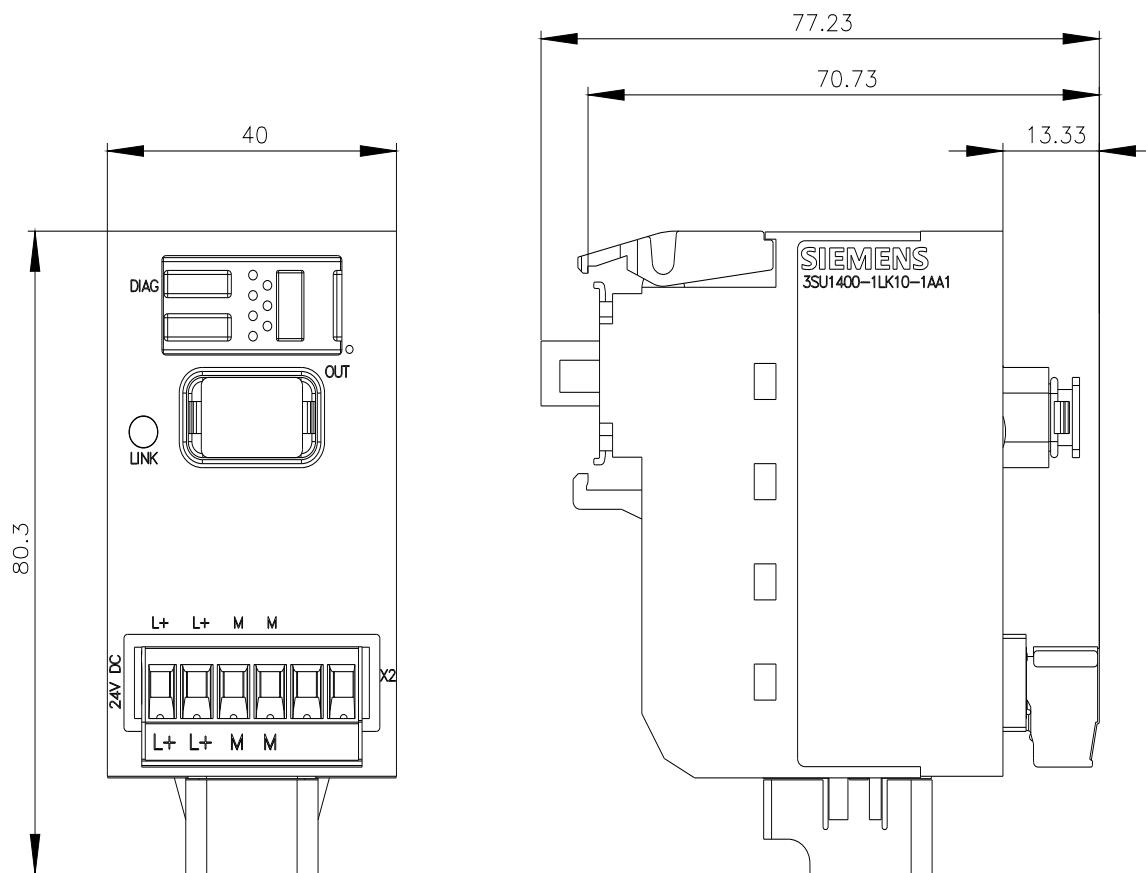
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1400-1LK10-1AA1>

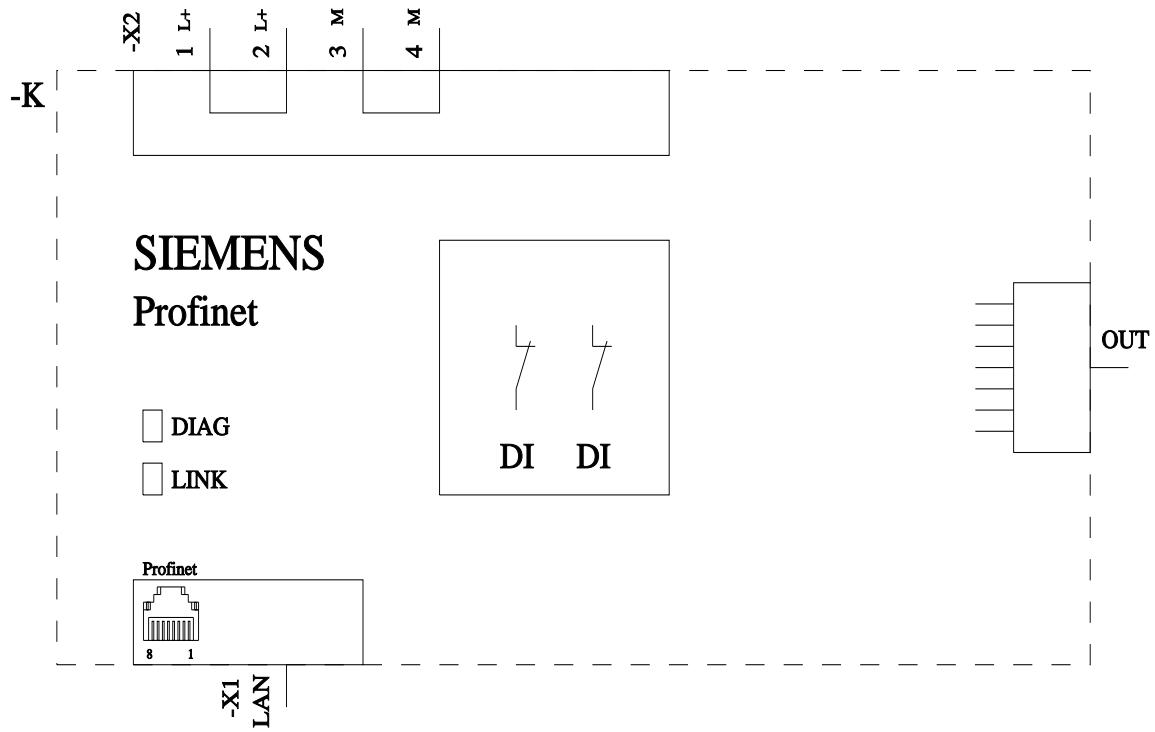
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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

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

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





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