3SU1400-1LK10-3AA1

## **Data sheet**



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	
Display		
display version		
<ul> <li>for diagnostic function: Supply voltage monitoring power LED</li> </ul>	Yes	
<ul> <li>status Tx/Rx link</li> </ul>	Yes	
General technical data		
product function		
<ul> <li>reverse polarity protection</li> </ul>	Yes	
<ul> <li>diagnostics function</li> </ul>	Yes	
• alarms	Yes	
● I&M data	Yes; I&M0 I&M3	
firmware version	2.1.1	
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> <li>of the operating voltage</li> </ul>	DC	
<ul> <li>of the input voltage</li> </ul>	DC	
surge voltage resistance rated value	0.8 kV	
consumed current		
• maximum	100 mA	
rated value	28 mA	
protection class IP	IP20	
reference code according to IEC 81346-2	K	
Substance Prohibitance (Date)	12/19/2016	
operating voltage rated value	20.4 V	
I2t value	0.008 A²·s	
Supply voltage		
supply voltage at DC rated value	24 V	
Communication/ Protocol		
protocol is supported		
PROFINET IO protocol	Yes	

	Ne
PROFIsafe protocol      Traduct function of the Pthornet interference	No
product function at the Ethernet interface	V
Autocrossover	Yes
Autonegotiation	Yes
protocol at the 1st interface media redundancy protocol	No
product function at the 1st interface PROFINET IO device	Yes
product function of the PROFINET IO device is supported PROFINET system redundancy	No
service as PROFINET IO device	
	No
prioritized startup     isochronous mode	No
	No
supports Shared Device     supports Shared Device	No
<ul><li>supports PROFlenergy</li><li>IRT</li></ul>	No
• MRP	No
MRPD	No
service for open IE communication	NO
LLDP	Yes
• LLDP • SNMP	Yes
<del></del>	Yes
TCP/IP  GSD version/revision with PROFINET required.	V2.3
GSD version/revision with PROFINET required	
transmission mode for Industrial Ethernet	PROFINET with 100 Mbps full duplex (100BASE-TX)
network load class according to PROFINET	1  Paciliant to natural/ leading
specification for Security Level 1 test according to PROFINET	Resilient to network loading
Control circuit/ Control	
inrush current maximum	16 A
Galvanic isolation	
galvanic isolation between PROFINET and all other circuits	Yes
Inputs/ Outputs	
number of digital inputs	0
safety-related	0
number of digital outputs	0
Connections/ Terminals	
type of electrical connection	spring-loaded terminals
connectable conductor cross-section for auxiliary contacts	Spring loaded terminals
•	0.2 2.5 mm <sup>2</sup>
• solid or stranded	0.2 2.5 mm <sup>2</sup>
<ul><li>solid or stranded</li><li>finely stranded with core end processing</li></ul>	0.2 2.5 mm <sup>2</sup> 2.5 mm <sup>2</sup>
solid or stranded     finely stranded with core end processing     connectable conductor cross-section	2.5 mm²
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid	2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup>
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>solid with core end processing</li> </ul>	2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup>
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid with core end processing     finely stranded with core end processing	2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.25 2.5 mm <sup>2</sup>
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>solid with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>	2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.25 2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup>
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid with core end processing     finely stranded with core end processing	2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.25 2.5 mm <sup>2</sup>
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid with core end processing     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross	2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.25 2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup>
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid with core end processing     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section	2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.25 2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 30 12
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid with core end processing     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section  tightening torque with screw-type terminals	2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.25 2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 30 12
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid with core end processing     finely stranded with core end processing     finely stranded without core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section  tightening torque with screw-type terminals  Safety related data	2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.25 2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.5 0.6 N·m
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid with core end processing     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section  tightening torque with screw-type terminals  Safety related data service life maximum	2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.25 2.5 mm <sup>2</sup> 0.2 2.5 mm <sup>2</sup> 0.30 12
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid with core end processing     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section  tightening torque with screw-type terminals  Safety related data  service life maximum  design of the interface	2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  0.25 2.5 mm²  0.2 2.5 mm²  30 12  0.5 0.6 N·m
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid with core end processing     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section tightening torque with screw-type terminals  Safety related data service life maximum design of the interface     Ethernet interface	2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  0.25 2.5 mm²  0.2 2.5 mm²  30 12  0.5 0.6 N·m
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid stranded with core end processing     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section tightening torque with screw-type terminals  Safety related data service life maximum design of the interface     Ethernet interface     Fast Ethernet interface	2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  0.25 2.5 mm²  0.2 2.5 mm²  30 12  0.5 0.6 N·m
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid with core end processing     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     tightening torque with screw-type terminals  Safety related data     service life maximum     design of the interface     Ethernet interface     Fast Ethernet interface     interface design 1	2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  0.25 2.5 mm²  0.2 2.5 mm²  30 12  0.5 0.6 N·m   20 a  Yes; for Ethernet services Yes; PROFINET with 100 Mbps
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid with core end processing     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section  tightening torque with screw-type terminals  Safety related data  service life maximum  design of the interface     Ethernet interface     Fast Ethernet interface  interface design 1     integrated switch	2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  0.25 2.5 mm²  0.2 2.5 mm²  30 12  0.5 0.6 N·m   20 a  Yes; for Ethernet services Yes; PROFINET with 100 Mbps
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid with core end processing     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section  tightening torque with screw-type terminals  Safety related data  service life maximum  design of the interface     Ethernet interface     Fast Ethernet interface interface design 1     integrated switch     RJ45 (Ethernet)	2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  30 12  0.5 0.6 N·m   20 a  Yes; for Ethernet services Yes; PROFINET with 100 Mbps  No Yes
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid with core end processing     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section tightening torque with screw-type terminals  Safety related data service life maximum design of the interface     Ethernet interface     Fast Ethernet interface interface design 1     integrated switch     RJ45 (Ethernet) number of ports at the 1st interface	2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  30 12  0.5 0.6 N·m   20 a  Yes; for Ethernet services Yes; PROFINET with 100 Mbps  No Yes 1
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid with core end processing     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     tightening torque with screw-type terminals  Safety related data     service life maximum     design of the interface         Fast Ethernet interface         interface design 1             integrated switch             RJ45 (Ethernet)  number of ports at the 1st interface number of interfaces according to PROFINET	2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  30 12  0.5 0.6 N·m   20 a  Yes; for Ethernet services Yes; PROFINET with 100 Mbps  No Yes 1
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid with core end processing     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section  tightening torque with screw-type terminals  Safety related data  service life maximum  design of the interface     Ethernet interface     Fast Ethernet interface interface design 1     integrated switch     RJ45 (Ethernet)  number of ports at the 1st interface  number of interfaces according to PROFINET  Ambient conditions ambient temperature	2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  30 12  0.5 0.6 N·m   20 a  Yes; for Ethernet services Yes; PROFINET with 100 Mbps  No Yes 1
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid with core end processing     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section  tightening torque with screw-type terminals  Safety related data  service life maximum  design of the interface     Ethernet interface     Fast Ethernet interface     interface design 1         integrated switch         RJ45 (Ethernet)  number of ports at the 1st interface  number of interfaces according to PROFINET  Ambient conditions  ambient temperature     during operation	2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  30 12  0.5 0.6 N·m   20 a  Yes; for Ethernet services Yes; PROFINET with 100 Mbps  No Yes  1
solid or stranded     finely stranded with core end processing  connectable conductor cross-section     solid     solid with core end processing     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section  tightening torque with screw-type terminals  Safety related data  service life maximum  design of the interface     Ethernet interface     Fast Ethernet interface  interface design 1     integrated switch     RJ45 (Ethernet)  number of ports at the 1st interface  number of interfaces according to PROFINET  Ambient conditions  ambient temperature	2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  0.2 2.5 mm²  30 12  0.5 0.6 N·m  20 a  Yes; for Ethernet services Yes; PROFINET with 100 Mbps  No Yes  1 1

explosion protection marking for intrinsic safety of related equipment EEx ia	No	
explosion protection marking for intrinsic safety of related equipment EEx ib	No	
Installation/ mounting/ dimensions		
fastening method of modules and accessories	Front plate mounting	
height	80.1 mm	
width	40 mm	
depth	72.1 mm	
Certificates/ approvals		
General Product Approval	Declaration of Conformity	Test Certificates

Confirmation









**Special Test Certific-**<u>ate</u>

Test Certificates	other	Environment

Type Test Certificates/Test Report

Confirmation

PROFINET-Certifica-<u>tion</u>

Environmental Con**firmations** 

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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

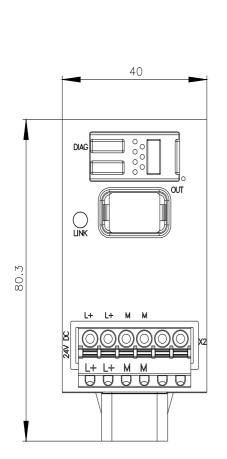
Cax online generator

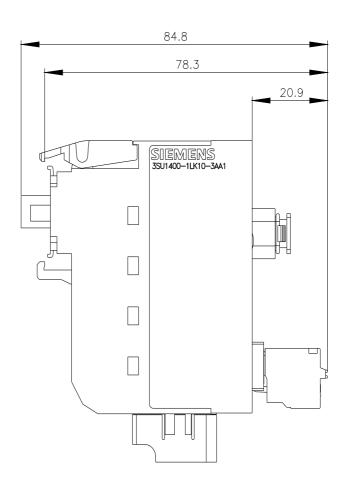
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1400-1LK10-3AA1

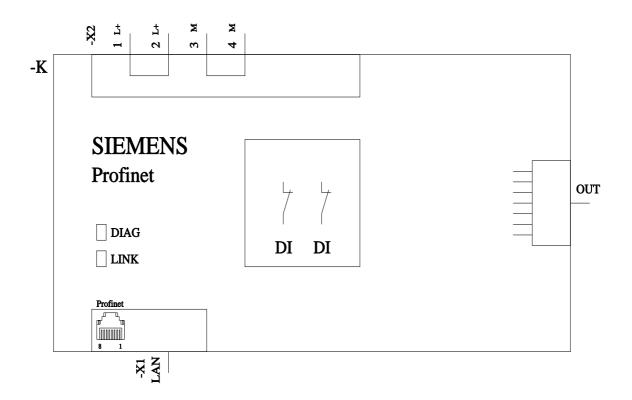
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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, ...) <a href="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</a>







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