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Data sheet 3SU1400-1LK10-1AA1

SIRIUS ACT with PROFINET: Standard interface module 24V 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

Display

Display version	
• for diagnostic function: Supply voltage monitoring Power LED	Yes
• status Tx/Rx link	Yes

General technical data

Product function	
• Reverse polarity protection	Yes
• Diagnostics function	Yes
• Alarms	Yes
• I&M data	Yes; I&M0 ... I&M3
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

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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	
• of the operating voltage	DC
• of the input voltage	DC
Surge voltage resistance rated value	0.8 kV
Consumed current	
• maximum	100 mA
• Rated value	28 mA
Protection class IP	IP20
Reference code acc. to DIN EN 81346-2	K
Operating voltage rated value	20.4 V
I2t value	0.008 $A^2 \cdot s$

Supply voltage

Supply voltage at DC Rated value	24 V

Communication/ Protocol

Protocol is supported	
• PROFINET IO protocol	Yes
• PROFIsafe protocol	No
Product function at the Ethernet interface	
• 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	
• prioritized startup	No
• isochronous mode	No
• supports Shared Device	No
• supports PROFIenergy	No
• IRT	No
• MRP	No
• MRPD	No
Service for open IE communication	
• LLDP	Yes
• SNMP	Yes
• TCP/IP	Yes

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GSD version/revision with PROFINET required	V2.3
Transmission mode for Industrial Ethernet	PROFINET with 100 Mbps full duplex (100BASE-TX)
Network load class acc. to PROFINET	1
Specification for Security Level 1 test acc. 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	screw-type terminals
Connectable conductor cross-section for auxiliary contacts	
• single or multi-stranded	0.2 ... 2.5 mm²
• finely stranded with core end processing	2.5 mm²
Connectable conductor cross-section	
• solid	0.2 ... 2.5 mm²
• solid with core end processing	0.2 ... 2.5 mm²
• finely stranded with core end processing	0.25 ... 2.5 mm²
• finely stranded without core end processing	0.2 ... 2.5 mm²
AWG number as coded connectable conductor cross section	30 ... 12
Tightening torque with screw-type terminals	0.5 ... 0.6 N·m

Safety related data

Service life maximum	20 y
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 acc. to PROFINET	1

Ambient conditions

Environmental category during operation acc. to IEC 60721	3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 ... 95 %, no condensation in operation permitted)

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Explosion protection marking for intrinsic safety of related equipment EEx ia	No
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Installation/ mounting/ dimensions

Mounting type 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	
UL		EG-Konf.	Miscellaneous	Type Test Certificates/Test Report	Special Test Certificate

other

Confirmation	PROFINET-Certification	PROFIsafe-Certification	Profibus

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/ic10

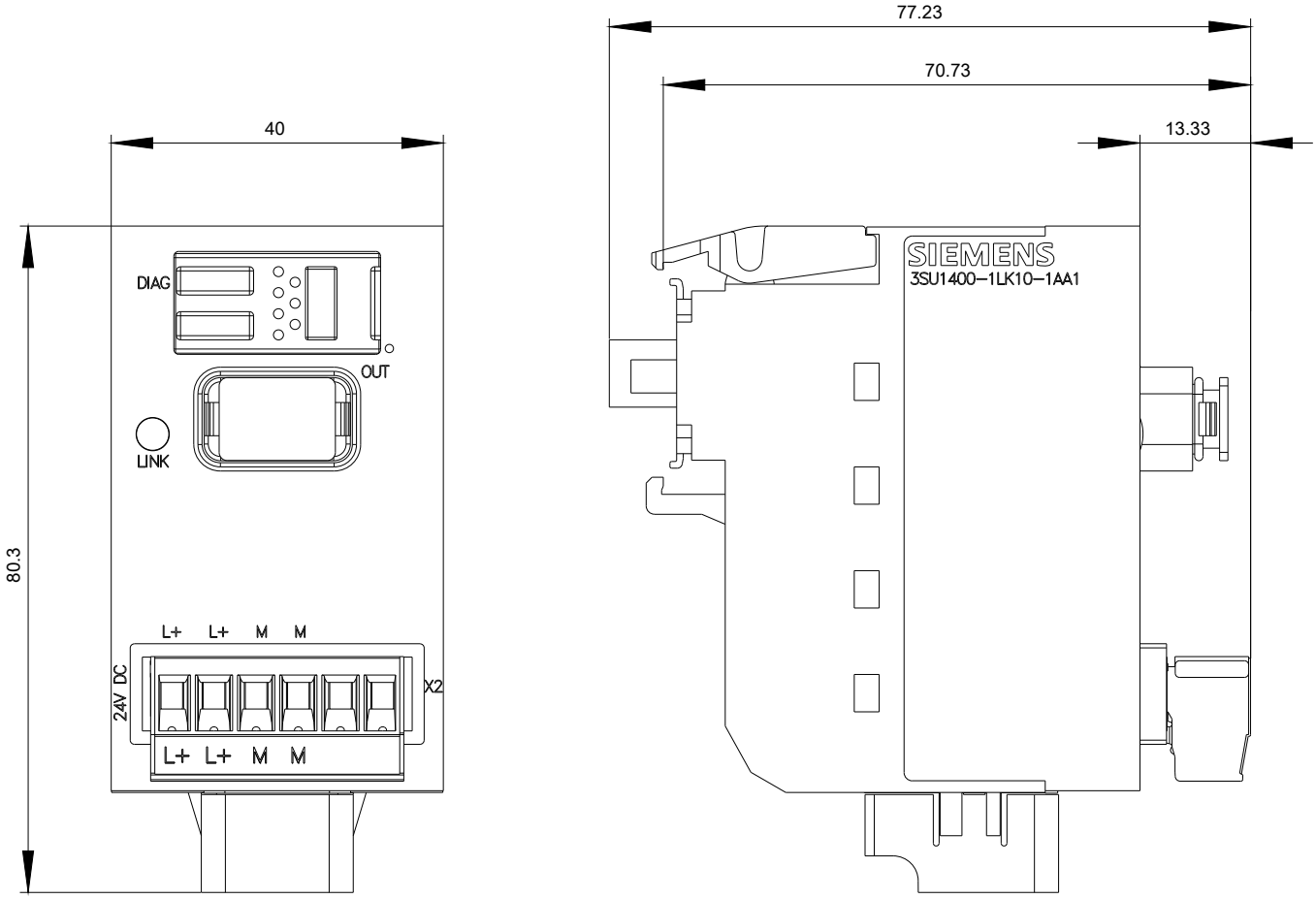
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1400-1LK10-1AA1

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

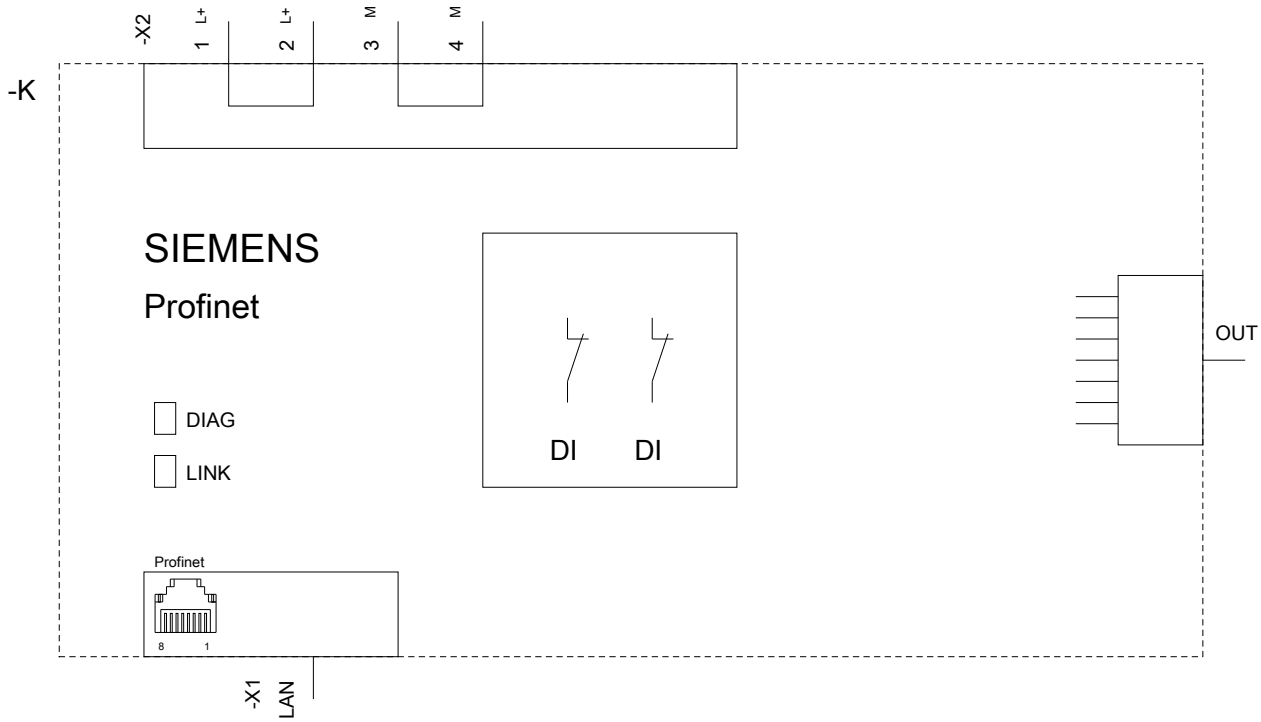
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3SU1400-1LK10-1AA1

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1400-1LK10-1AA1&lang=en

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