SIEMENS

Data sheet **3SU1400-1LK10-1AA1**

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

Figure similar

Product brand name	SIRIUS ACT
Product designation	Interface module
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
Firmware version	1.0.0
Hardware version	1
Configuration function with dataset	Yes

10/11/2017

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	
● 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
Equipment marking acc. to DIN EN 81346-2	K

Main circuit

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
● 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
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

Ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-40 ... +80 °C
Environmental category during operation acc. 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
Explosion protection marking for intrinsic safety of related equipment EEx ib	No

Installation/ mounting/ dimensions

Mounting type of modules and accessories	Snap-on mounting
Height	80.1 mm
Width	40 mm
Depth	72.1 mm

Certificates/approvals

General Product Approval		Declaration of Conformity	Test Certificates		other
UL	EAC	CE EG-Konf.	[Declaration of the Compliance with the order](#)	[Special Test Certificate](#)	[Confirmation](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1400-1LK10-1AA1
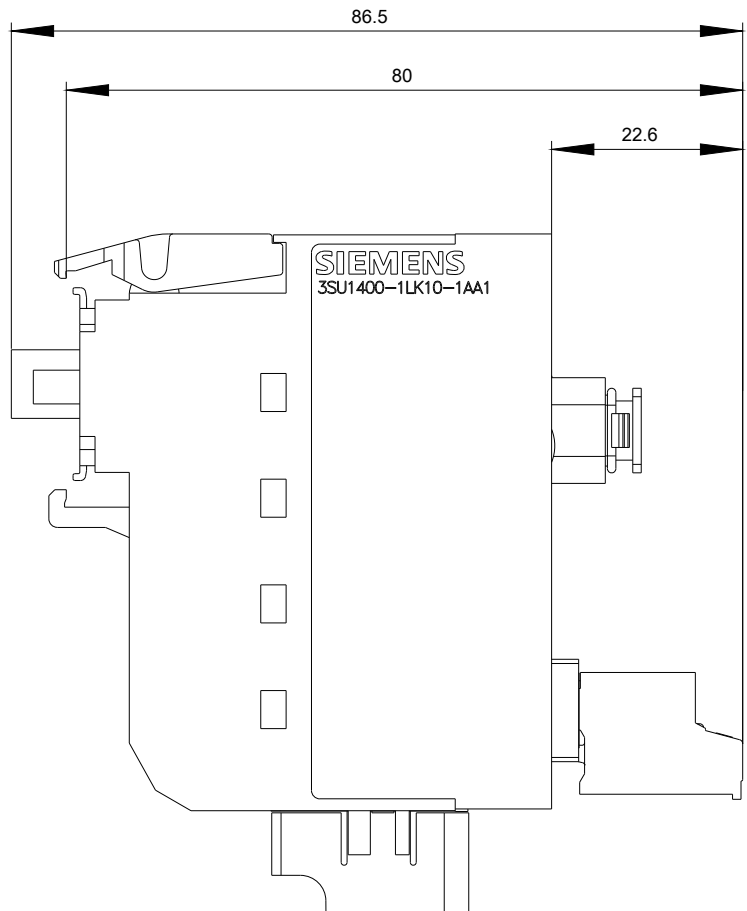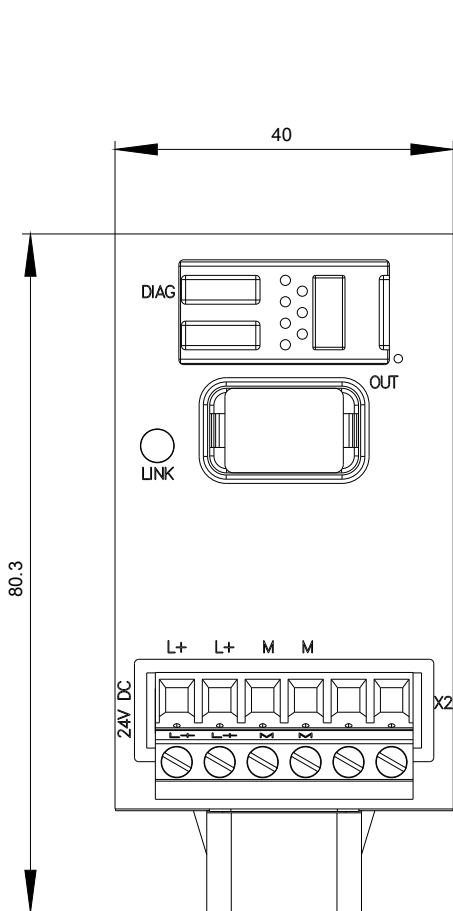
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1400-1LK10-1AA1
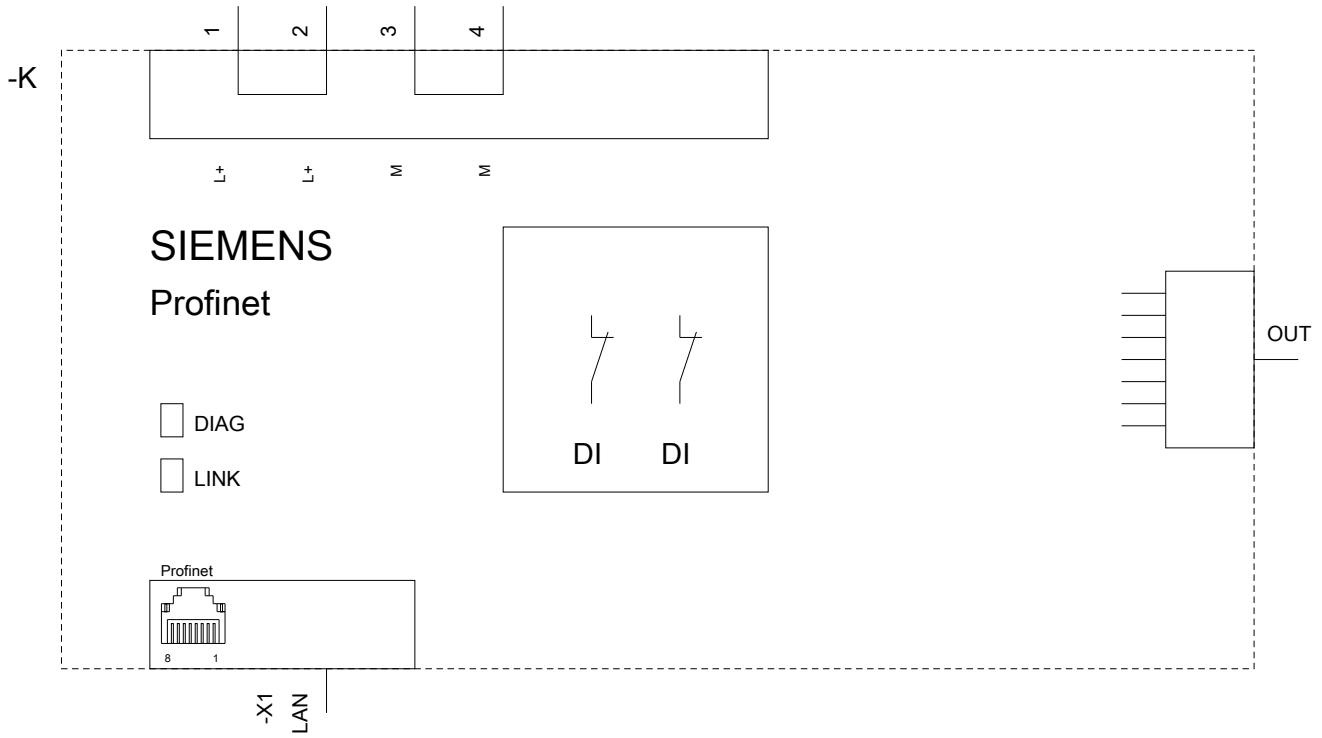
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3SU1400-1LK10-1AA1

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

DIAG

OUT

LINK

40

80.3

24V DC

L+   L+   M   M

X2

86.5

80

22.6

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-K

1 2 3 4

L+ L+ M M

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Profinet

☐ DIAG

☐ LINK

DI   DI

OUT

Profinet

8   1

-X1
LAN

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