SIEMENS

Data sheet

3SU1400-1LL10-3BA1



SIRIUS ACT with PROFINET: fail-safe interface module with 4 DI, 1 DQ (24 V DC), 1 AI (12-bit A/D resolution), 24 V DC, spring-loaded terminal, front plate mounting, 1 to 20 terminal modules connectable

product brand name	SIRIUS ACT			
product designation	Fail-safe 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; With polarity change, DI1 DI4 may not be connected to (M) pole			
 diagnostics function 	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				
 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 according to IEC 81346-2	K			
Substance Prohibitance (Date)	12/19/2016			
operating voltage rated value	20.4 V			
I2t value	0.008 A ² ·s			
Supply voltage				
supply voltage at DC rated value	24 V			
Communication/ Protocol				
protocol is supported				
PROFINET IO protocol	Yes			

PROFIcate protocol	Yes
PROFIsafe protocol Product function at the Ethernet interface	1 05
product function at the Ethernet interface	Voc
Autoposeticion	Yes
Autonegotiation Protocol at the 1st interface media redundancy protocol	Yes No
protocol at the 1st interface media redundancy protocol	
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 PROFlenergy	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 according to PROFINET	1
specification for Security Level 1 test according to	Resilient to network loading
PROFINET	
Control circuit/ Control	40.4
inrush current maximum	16 A
Galvanic isolation	Voc
galvanic isolation between PROFINET and all other circuits	Yes
Inputs/ Outputs	1
number of digital inputs	4
• cafety related	0
safety-related number of analog inputs	0
number of analog inputs	1
number of analog inputs number of digital outputs	
number of analog inputs number of digital outputs Connections/ Terminals	1
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection	1
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts	1 1 spring-loaded terminals
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts • solid or stranded	1 1 spring-loaded terminals 0.2 2.5 mm²
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts	1 1 spring-loaded terminals
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing	1 1 spring-loaded terminals 0.2 2.5 mm²
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts	1 1 spring-loaded terminals 0.2 2.5 mm² 2.5 mm²
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number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts • 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 with core end processing • finely stranded without core end processing AWG number as coded connectable conductor cross	1 1 spring-loaded terminals 0.2 2.5 mm² 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm²
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts	1 1 spring-loaded terminals 0.2 2.5 mm² 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm²
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts	1 1 spring-loaded terminals 0.2 2.5 mm² 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 2.5 2.5 mm² 1.5 mm²
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section • solid • solid • solid with core end processing • finely 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 Safety related data Safety Integrity Level (SIL) according to IEC 61508	1 1 spring-loaded terminals 0.2 2.5 mm² 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 2.5 2.5 mm² 2.6 12
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts • 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 with core end processing • finely stranded without core end processing AWG number as coded connectable conductor cross section Safety related data Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061	1 1 spring-loaded terminals 0.2 2.5 mm² 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 2.5 2.5 mm² 2.6 12
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts	1 1 spring-loaded terminals 0.2 2.5 mm² 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 2 0.2 2.5 mm² 2 0.2 2.5 mm² 3 SILCL 3 e
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts	1 1 spring-loaded terminals 0.2 2.5 mm² 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 2.5 2.5 mm² 3 SILCL 3 e 4
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts	1 1 spring-loaded terminals 0.2 2.5 mm² 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 2.5 2.5 mm² 3 SILCL 3 e 4 99.6 %
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts	1 1 spring-loaded terminals 0.2 2.5 mm² 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 2.5 2.5 mm² 2.5 2.5 mm² 2.6 12 3 SILCL 3 e 4 99.6 % 5.951E-10 1/h
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts	1 1 spring-loaded terminals 0.2 2.5 mm² 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 2.25 2.5 mm² 2.5 2.5 mm² 2.6 12 3 SILCL 3 e 4 99.6 % 5.951E-10 1/h 2.426E-6
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts	1 1 1 spring-loaded terminals 0.2 2.5 mm² 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 2.2 12
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts	1 1 spring-loaded terminals 0.2 2.5 mm² 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 2.25 2.5 mm² 2.5 2.5 mm² 2.6 12 3 SILCL 3 e 4 99.6 % 5.951E-10 1/h 2.426E-6
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts	1 1 1 spring-loaded terminals 0.2 2.5 mm² 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 2.2.5 2.5 mm² 2.2 2.5 mm² 2.2 2.5 mm² 2.2 12 3 SILCL 3 e 4 99.6 % 5.951E-10 1/h 2.426E-6 20 a 1 a
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts	1 1 1 1 spring-loaded terminals 0.2 2.5 mm² 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 2.2 2.5 mm² 2.2 2.5 mm² 2.2 2.5 mm² 2.2 12 3 SILCL 3 e 4 99.6 % 5.951E-10 1/h 2.426E-6 20 a 1 a Yes; for Ethernet services
number of analog inputs number of digital outputs Connections/ Terminals type of electrical connection connectable conductor cross-section for auxiliary contacts	1 1 1 spring-loaded terminals 0.2 2.5 mm² 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 0.2 2.5 mm² 26 12 3 SILCL 3 e 4 99.6 % 5.951E-10 1/h 2.426E-6 20 a 1 a
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• RJ45 (Ethernet)	Yes				
number of ports at the 1st interface	1				
number of interfaces according to PROFINET	1				
Ambient conditions					
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				
explosion protection marking for intrinsic safety of related equipment EEx ib	No				
Installation/ mounting/ dimensions					
fastening method of modules and accessories	Front	Front plate mounting			
height	80.1 mm				
width	40 mm				
depth	72.1 r	72.1 mm			
Certificates/ approvals					
General Product Approval		Functional Safety/Safety of Ma- chinery	Declaration of Conformity		

Confirmation





Type Examination Certificate





Test Certificates		other		Environment	
Special Test Certificate	Type Test Certific- ates/Test Report	Confirmation	PROFIsafe-Certifica- tion	Environmental Confirmations	

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

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=3SU1400-1LL10-3BA1

Cax online generator

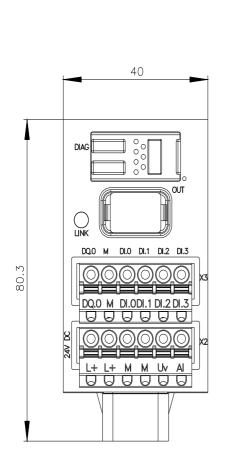
 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3SU1400-1LL10-3BA1}$

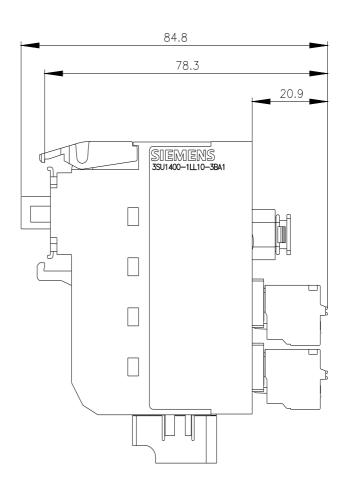
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

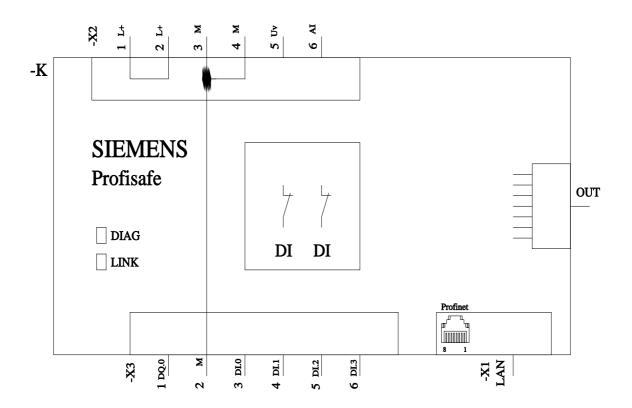
https://support.industry.siemens.com/cs/ww/en/ps/3SU1400-1LL10-3BA1

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1400-1LL10-3BA1&lang=en







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