SIEMENS

Data sheet

3SU1400-1LK10-3AA1





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



product designation product type designation product type designation • for diagnostic function: Supply voltage monitoring power LED • status Tx/Rx link * for monitoring power led • status Tx/Rx link * for monitoring power • led • diagnostic function: Supply voltage monitoring power • status Tx/Rx link * formal technical data * product function • reverse polarity protection • diagnostics function • reverse polarity protection • diagnostics function • reverse polarity protection • learns •		
display version • for diagnostic function: Supply voltage monitoring power LED • status TX/Rx link Yes Ceneral technical data product function • reverse polarity protection • diagnostics function • alarms • l&M data * Yes • l&M data * Yes; l&Mo l&M3 firmware version • lAid water version configuration function with dataset 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 number of submodules per station maximum power loss [W] typical insulation voltage rated value degree of pollution type of voltage • of the operating voltage • of the input voltage surge voltage resistance rated value e maximum • maximum • rated value • maximum • rated value • sortware version case IP shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 10 500 Hz: 5g	product designation	Interface module for PROFINET
display version	product type designation	3SU1
• for diagnostic function: Supply voltage monitoring power LED • status Tx/Rx link Product function • reverse polarity protection • diagnostics function • alarms • l&M data • limited firmware version • land firmware version • land firmware version • land firmware version • land power loss [W] typical Insulation voltage rated value • of the operating voltage • of the input voltage surge voltage resistance rated value • maximum • rated value • maximum • rated value • maximum • rated value • according to IEC 60068-2-27 • for railway applications according to IEC 60068-2-6 • of railway applications existed firm rate for surface in the surface is surface voltage succording to IEC 60068-2-6 • of railway applications according to IEC 60068-2-6 • occording to IEC 60068-2-6 • occording to IEC 60068-2-6 • occording to IEC 60068-2-6 • occording to IEC 60068-2-6 • occording to IEC 60068-2-6 • occording to IEC 60068-2-6 • occording to IEC 60068-2-6 • occording to IEC 60068-2-6 • occording to IEC 60068-2-6 • occording to IEC 60068-2-6 • occording to IEC 60068-2-6 • occording to IEC 60068-2-6 • occording to IEC 60068-2-6 • occording to IEC 60068-2-6 • occording to IEC 60068-2-6 • occording to IEC 60068-2-6	Display	
LED status Tx/Rx link Product function reverse polarity protection diagnostics function alarms elakm data Firmware version configuration function with dataset software version with STEP 7 in the TIA Portal required number of units per rack maximum power loss [W] typical nisulation voltage rated value of the operating voltage of the input voltage of the input voltage of the input voltage of the operating voltage of the input voltage of the input voltage surge voltage resistance rated value a 8 kV consumed current or maximum or atted value protection class IP shock resistance or according to IEC 60068-2-27 of or railway applications according to EN 61373 vibration resistance or according to IEC 60068-2-6 10 500 Hz: 5g	display version	
Product function Produc		Yes
product function • reverse polarity protection • diagnostics function • alarms • ealarms • eski data firmware version 2.1.4 hardware version 2.1.4 hardware version 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 insulation voltage rated value 30 V degree of pollution 3 type of voltage • of the operating voltage • of the operating voltage • of the operating voltage • of the input voltage DC surge voltage resistance rated value 0.8 kV consumed current • maximum • rated value 28 mA protection class IP shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 10 500 Hz: 5g	 status Tx/Rx link 	Yes
reverse polarity protection diagnostics function diagnostics function alarms residence of pollution rot the operating voltage of the operating voltage of the input voltage of the input voltage of the input voltage or of the input voltage residence of pollution rated value residence or at a value protection class IP shock resistance	General technical data	
 diagnostics function alarms i&M data Yes; I&M0 I&M3 firmware version 2.1.4 hardware version 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 insulation voltage rated value 30 V degree of pollution type of voltage of the operating voltage of the input voltage of the input voltage of the input voltage consumed current maximum rated value protection class IP shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms Category 1, Class B vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g 	product function	
• alarms • 18M data Yes; 18M0 18M3 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 of the operating voltage of the input voltage of the input voltage surge voltage resistance rated value 0.8 kV consumed current maximum erated value 28 mA protection class IP shock resistance according to IEC 60068-2-7 of railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g	 reverse polarity protection 	Yes
• I&M data Yes; I&MO 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 0C of the input voltage 0C surge voltage resistance rated value 0.8 kV consumed current 0.8 kV consumed current 0.9 kW e rated value 28 mA protection class IP IP20 shock resistance 0.2 sinusoidal half-wave 15g / 11 ms 0.2 category 1, Class B vibration resistance 0.2 saccording to IEC 60068-2-6 10 500 Hz: 5g	 diagnostics function 	Yes
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	• alarms	Yes
hardware version configuration function with dataset yes software version with STEP 7 in the TIA Portal required number of units per rack maximum number of submodules per station maximum power loss [W] typical insulation voltage rated value degree of pollution type of voltage of the operating voltage of the input voltage of the input voltage to maximum naximum naximum rated value e maximum rated value protection class IP shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g	I&M data	Yes; I&M0 I&M3
configuration function with dataset 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 insulation voltage rated value 30 V degree of pollution 3 type of voltage of the operating voltage of the input voltage of the input voltage DC surge voltage resistance rated value 0.8 kV consumed current maximum maximum rated value protection class IP shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g	firmware version	2.1.4
software version with STEP 7 in the TIA Portal required number of units per rack maximum 20 number of submodules per station maximum 24 power loss [W] typical insulation voltage rated value degree of pollution 30 V degree of pollution 40 of the operating voltage 60 of the input voltage 60 of the input voltage 60 surge voltage resistance rated value 60 maximum 60 rated value 70 railway applications according to EN 61373 70 vilvas IP 80 vibration resistance 60 according to IEC 60068-2-6 80 IN 10 mA 80 category 1, Class B 80 vibration resistance 60 according to IEC 60068-2-6 80 IN 10 mA 80 category 1, Class B 80 vibration resistance 80 according to IEC 60068-2-6 80 IN 10 m 500 Hz: 5g	hardware version	1
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 of the input voltage DC surge voltage resistance rated value 0.8 kV consumed current maximum rated value 28 mA protection class IP shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g	configuration function with dataset	Yes
number of submodules per station maximum power loss [W] typical insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage of the input voltage of the input voltage DC surge voltage resistance rated value onaximum maximum rated value protection class IP shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g	software version with STEP 7 in the TIA Portal required	Integrated in TIA Portal Version 14 SP1 or higher (HSP for V13 and V14)
power loss [W] typical insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage of the input voltage DC surge voltage resistance rated value maximum rated value rated value protection class IP shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g	number of units per rack maximum	20
insulation voltage rated value degree of pollution type of voltage of the operating voltage of the input voltage DC surge voltage resistance rated value maximum maximum orated value protection class IP shock resistance according to IEC 60068-2-27 of railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g	number of submodules per station maximum	24
type of voltage of the operating voltage of the input voltage DC surge voltage resistance rated value maximum maximum rated value 28 mA protection class IP shock resistance according to IEC 60068-2-27 of railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 location class IP vibration resistance according to IEC 60068-2-6 location class IP vibration resistance according to IEC 60068-2-6 location class IP vibration resistance according to IEC 60068-2-6 location class IP vibration resistance location class IP vibration	power loss [W] typical	0.67 W
type of voltage of the operating voltage of the input voltage DC surge voltage resistance rated value 0.8 kV consumed current omaximum rated value 28 mA protection class IP IP20 shock resistance oaccording to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms of or railway applications according to EN 61373 vibration resistance oaccording to IEC 60068-2-6 10 500 Hz: 5g	insulation voltage rated value	30 V
 of the operating voltage of the input voltage DC surge voltage resistance rated value 0.8 kV consumed current maximum rated value protection class IP shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g 	degree of pollution	3
of the input voltage surge voltage resistance rated value O.8 kV consumed current maximum rated value Protection class IP IP20 shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g	type of voltage	
surge voltage resistance rated value consumed current maximum rated value protection class IP IP20 shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms for railway applications according to EN 61373 Category 1, Class B vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g	 of the operating voltage 	DC
consumed current • maximum • rated value 28 mA protection class IP IP20 shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 10 500 Hz: 5g	of the input voltage	DC
 maximum rated value 28 mA protection class IP lP20 shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g 	surge voltage resistance rated value	0.8 kV
 rated value protection class IP shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g 	consumed current	
protection class IP shock resistance • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B vibration resistance • according to IEC 60068-2-6 10 500 Hz: 5g	• maximum	100 mA
shock resistance • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B vibration resistance • according to IEC 60068-2-6 10 500 Hz: 5g	rated value	28 mA
 according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms for railway applications according to EN 61373 Category 1, Class B vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g 	protection class IP	IP20
for railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g	shock resistance	
vibration resistance • according to IEC 60068-2-6 10 500 Hz: 5g	 according to IEC 60068-2-27 	sinusoidal half-wave 15g / 11 ms
• according to IEC 60068-2-6 10 500 Hz: 5g	 for railway applications according to EN 61373 	Category 1, Class B
	vibration resistance	
	according to IEC 60068-2-6	10 500 Hz: 5g
• for railway applications according to EN 61373 Category 1, Class B	 for railway applications according to EN 61373 	Category 1, Class B

SIRIUS ACT

	v.
reference code according to IEC 81346-2	K
Substance Prohibitance (Date)	12/19/2016
SVHC substance name	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
Weight	140 g
operating voltage rated value minimum	20.4 V
l2t 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
PROFIsafe protocol	No
product function at the Ethernet interface	INU
Autocrossover	Yes
	Yes
Autonegotiation Protocol at the 1st interface madia raduations uprotocol	
protocol at the 1st interface media redundancy protocol	No Voc
product function at the 1st interface PROFINET IO device	Yes
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	V2.34
transmission mode for Industrial Ethernet	PROFINET with 100 Mbps full duplex (100BASE-TX)
network load class according to PROFINET	T
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	
solid or stranded	0.2 2.5 mm²
• finely stranded with core end processing maximum	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
Safety related data	No
product function suitable for safety function	No
service life maximum	20 a

nterfaces	
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
mbient 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 \dots 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
nvironmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	0.787 kg
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	-0.015 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
nstallation/ mounting/ dimensions	
fastening method of modules and accessories	Front plate mounting
height	80.1 mm
width	40 mm



General Product Approval







Type Test Certificates/Test Report

Test Certificates

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

Environment Industrial Communication other

Confirmation



EcoTech



Environmental Confirmations

PROFINET

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

Industry Mall (Online ordering system)

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

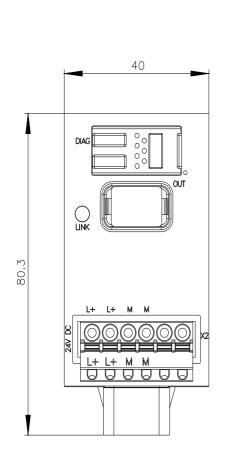
Cax online generator

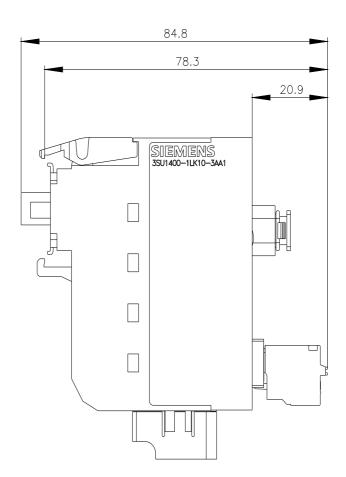
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1400-1LK10-3AA1

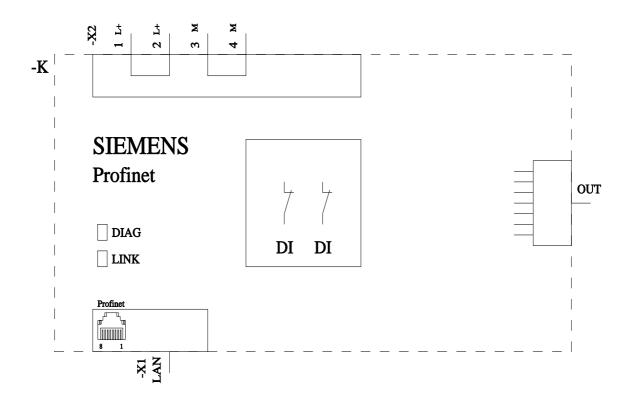
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1400-1LK10-3AA1&lang=en







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