SIEMENS

Data sheet   **3SU1400-1EA10-4AA0**

AS-Interface module, 2 safe inputs, black, insulation displacement system, for front plate mounting

Siemens EcoTech

product brand name	SIRIUS ACT
product designation	AS-Interface module
product type designation	3SU1
General technical data	
product function	2F-DI
degree of pollution	3
type of voltage	
● of the operating voltage	DC
● of the input voltage	DC
consumed current maximum	60 mA
protection class IP	IP20
shock resistance for railway applications according to EN 61373	Category 1, Class B
vibration resistance for railway applications according to EN 61373	Category 1, Class B
reference code according to IEC 81346-2	K
Substance Prohibitance (Date)	10/01/2014
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Diboron trioxide - 1303-86-2
Weight	62 g
design of the slave type	2 F-DI
AS-Interface slave profile	S-0.B.F
ID1 code	0...F
number of AS-i slaves	1
operating voltage rated value	26.5 ... 31.6 V
operating voltage 1 at DC rated value	30 V
Communication/ Protocol	
protocol is supported	
● AS-Interface protocol	Yes
● ASIsafe (Safety at work) protocol	Yes
Inputs/ Outputs	
number of digital inputs	
● safety-related	2
Connections/ Terminals	
type of electrical connection	Insulation displacement method
Product Function	
suitability for use safety-related circuits	Yes
Safety related data	

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product function suitable for safety function	Yes
safe state	off
test wear-related service life necessary	No
category according to EN 954-1	4
average diagnostic coverage level (DCavg)	99 %
IEC 62061	
SIL Claim Limit (subsystem) according to EN 62061	SIL CL 3
Safety Integrity Level (SIL) according to IEC 62061	SIL 3
PFHD with high demand rate according to IEC 62061	4.5E-9 1/h
ISO 13849	
performance level (PL) according to ISO 13849-1	PL e
category according to ISO 13849-1	4
device type according to ISO 13849-1	1
IEC 61508	
Safety Integrity Level (SIL)	
● according to IEC 61508	SIL 3
safety device type according to IEC 61508-2	Type B
PFHD with high demand rate according to IEC 61508	4.5E-9 1/h
PFDavg with low demand rate according to IEC 61508	5E-6
Safe failure fraction (SFF)	99 %
hardware fault tolerance according to IEC 61508	1
T1 value of service life according to IEC 61508	20 a

Ambient conditions

ambient temperature	
● during operation	-25 ... +70 °C
● during storage	-40 ... +80 °C
environmental category during operation according to IEC 60721	3M6, 3S2, 3B2, 3C3 (without salt spray), 3K6 (with relative humidity of 10 ... 95%, no condensation in operation permitted)

Environmental 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

Installation/ mounting/ dimensions

fastening method	
● of modules and accessories	Front plate mounting
● of AS-i slaves	Frontplattenbefestigung
height	42 mm
width	30 mm
depth	65.5 mm

Approvals Certificates

General Product Approval					EMV	Test Certificates
CE EG-Konf.	UKCA	c(UL)us	EAC	RCM		[Type Test Certificates/Test Report](#)

Test Certificates	Maritime application			other	
[Special Test Certificate](#)	Lloyd's Register LRS	PRS	RINA	产品合格 QC PASS	[Confirmation](#)

Environment	Industrial Communication

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875

Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012

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=3SU1400-1EA10-4AA0
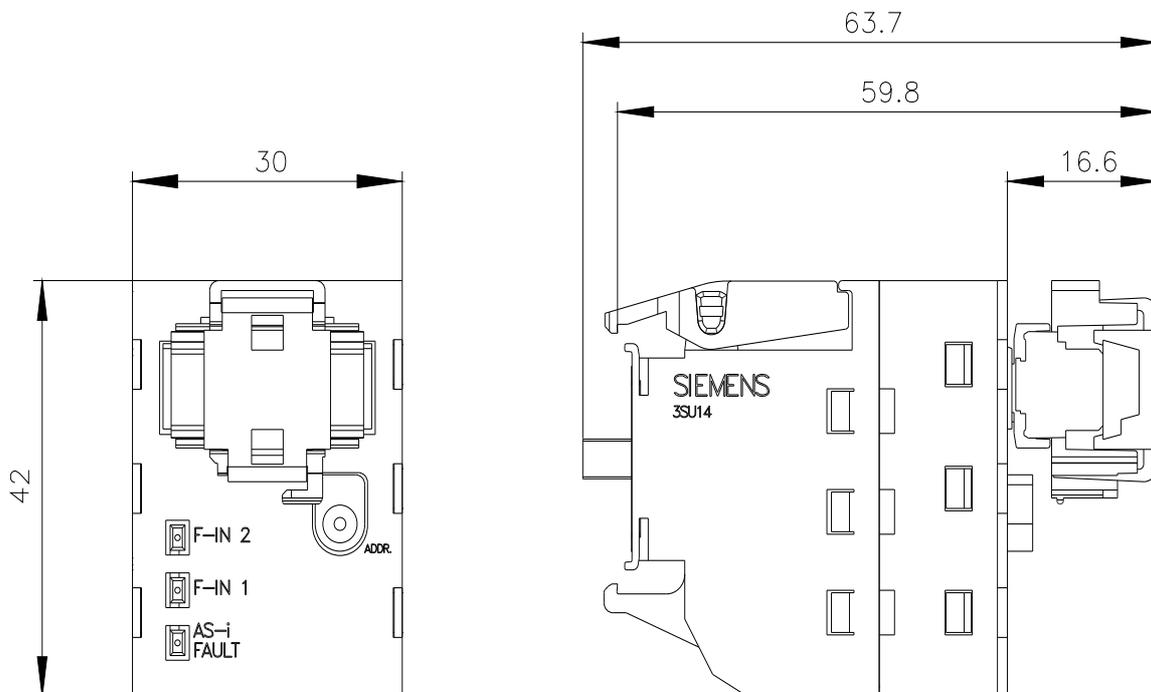
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1400-1EA10-4AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3SU1400-1EA10-4AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1400-1EA10-4AA0&lang=en

-K1

AS-i Bus:
Slave:

SAFETY AT WORK
ASi INTERFACE

F-IN1

F-IN2

AS-i Fault   Logic

ASI+

ADDR

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