SIEMENS

product brand name

Data sheet 3UF7011-1AU00-0

SIRIUS



Basic unit SIMOCODE pro V PN, Ethernet/PROFINET IO, PN system redundancy, OPC UA server, Web server, transmission rate 100 Mbps, 2 x bus connection via RJ45, 4l/3O freely parameterizable, Us: 110...240 V AC/DC, input for thermistor connection Monostable relay outputs, expandable by extension modules

product brand name	SIRIUS
product designation	Motor management system
design of the product	basic unit 3
product type designation	SIMOCODE pro V PN
General technical data	
product function	
 bus communication 	Yes
 data acquisition function 	Yes
 diagnostics function 	Yes
 password protection 	Yes
• test function	Yes
maintenance function	Yes
product component	
 input for thermistor connection 	Yes
digital input	Yes
 input for analog temperature sensors 	No
 input for ground fault detection 	No
relay output	Yes
product extension	
 temperature monitoring module 	Yes
 current measuring module 	Yes
 current/voltage measuring module 	Yes
 fail-safe digital I/O module 	Yes
 ground-fault monitoring module 	Yes
 control unit with display 	Yes
 control unit 	Yes
analog I/O module	Yes
apparent power consumption	8.3 V·A
consumed active power	4.8 W
insulation voltage with degree of pollution 3 at AC rated value	300 V
surge voltage resistance rated value	4 000 V
protection class IP	IP20
shock resistance	
• acc. to IEC 60068-2-27	15g / 11 ms
vibration resistance	1-6 Hz / 15 mm; 6-500 Hz / 2 g
switching capacity current of the NO contacts of the relay outputs at AC-15	
• at 24 V	6 A
• at 120 V	6 A

a at 220 V	2 /
• at 230 V	3 A
switching capacity current of the NO contacts of the relay outputs at DC-13	
• at 24 V	2 A
• at 60 V	0.55 A
• at 125 V	0.25 A
mechanical service life (switching cycles) typical	10 000 000
	100 000
electrical endurance (switching cycles) typical	0.02 s
buffering time in the event of power failure reference code acc. to IEC 81346-2	0.02 S
	-
continuous current of the NO contacts of the relay outputs	0.4
• at 50 °C	6 A
• at 60 °C	5 A
type of input characteristic	Type 1 in accordance with EN 61131-2
Substance Prohibitance (Date)	01.03.2017
certificate of suitability	V 1505 PTD 40 000 W
• IECEx	Yes; IECEx PTB 18.0004X
according to ATEX directive 2014/34/EU	BVS 06 ATEX F001, PTB 18 ATEX 5003 X
explosion device group and category according to ATEX directive 2014/34/EU	II (2) G, II (2) D, I (M2) / I (1G/M2), II (1/2) G, II (1G/2D)
Electromagnetic compatibility	
EMC emitted interference acc. to IEC 60947-1	class A
EMC immunity acc. to IEC 60947-1	corresponds to degree of severity 3
conducted interference	
due to burst acc. to IEC 61000-4-4	2 kV (power ports) / 1 kV (signal ports)
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV
 due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV
 due to high-frequency radiation acc. to IEC 61000- 4-6 	10 V
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
conducted HF interference emissions acc. to CISPR11	corresponds to degree of severity A
field-bound HF interference emission acc. to CISPR11	corresponds to degree of severity A
field-bound HF interference emission acc. to CISPR11	
field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs	
field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A
field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function • parameterizable inputs	corresponds to degree of severity A Yes
field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	Yes Yes
field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	Yes Yes 4
field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function • parameterizable inputs • parameterizable outputs number of inputs • for thermistor connection	Yes Yes 4 1
field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function • parameterizable inputs • parameterizable outputs number of inputs • for thermistor connection number of digital inputs with a common reference potential	Yes Yes 4 1
field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	Yes Yes 4 1 4 Yes
field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	Yes Yes 4 1 4 Yes 24 V
field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	Yes Yes 4 1 4 Yes 24 V
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field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	Yes Yes 4 1 4 Yes 24 V 3 0
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field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
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field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
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• is supported PROFINET system redundancy Yes; In conjunction with SIMATIC PCS 7 CPU 410-5H	 shared device at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation 	Yes Yes Yes
	 shared device at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication 	Yes Yes Yes

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supports PROFlenergy measured values supports PROFlenergy abuttleying	Yes
supports PROFlenergy shutdown	Yes
transfer rate maximum	100 Mbit/s
PROFINET conformity class	В
identification & maintenance function	
1&M0 - device-specific information	Yes
I&M1 – higher level designation/location designation	Yes
I&M2 - installation date	Yes
• I&M3 - comment	Yes
type of electrical connection of the communication interface	2x RJ45
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting
height	111 mm
width	45 mm
depth	124 mm
required spacing	
• top	40 mm
• bottom	40 mm
• left	0 mm
• right	0 mm
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of connectable conductor cross-sections	
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
finely stranded with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
at AWG cables solid	1x (20 12), 2x (20 14)
at AWG cables stranded	1x (20 14), 2x (20 14)
tightening torque with screw-type terminals	0.8 1.2 N·m
tightening torque [lbf-in] with screw-type terminals	7 10.3 lbf·in
	7 10.3 lb1 li1
Ambient conditions	
installation altitude at height above sea level	0.000
• 1 maximum	2 000 m
• 2 maximum	3 000 m; max. +50 °C (no protective separation)
• 3 maximum	4 000 m; max. +40 °C (no protective separation)
ambient temperature	
 during operation 	-25 +60 °C
during storage	-40 +80 °C
during transport	-40 +80 °C
environmental category	
 during operation acc. to IEC 60721 	3K6 (no formation of ice, no condensation, relative humidity 10 95%),
• during storage acc. to IEC 60721	3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist),
during the country of the Country of	1S2 (sand must not get into the devices), 1M4
during transport acc. to IEC 60721	2K2, 2C1, 2S1, 2M2
relative humidity	
during operation	5 95 %
contact rating of auxiliary contacts according to UL	B300 / R300
Short-circuit protection	
design of short-circuit protection per output	Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature circuit-breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A)
Safety related data	
touch protection against electrical shock Galvanic isolation	finger-safe
(electrically) protective separation acc. to IEC 60947-1	All circuits with protective separation (double creepage paths and
	All circuits with protective separation (double creepage paths and
(clockfoally) protoctive separation acc. to 125 ccc-7	clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information)
Control circuit/ Control product function soft starter control	

type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
 at 50 Hz rated value 	110 240 V
 at 60 Hz rated value 	110 240 V
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
relative symmetrical tolerance of the control supply voltage frequency	5 %
control supply voltage at DC	
rated value	110 240 V
operating range factor control supply voltage rated value at DC	
initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.85
• full-scale value	1.1

Certificates/ approvals

General Product Approval

EMC

For use in hazardous locations













For use in hazardous locations

Declaration of Conformity

Test Certificates











Type Test Certificates/Test Report

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

Test Certificates

Marine / Shipping

other

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









Confirmation

other



Profibus

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=3UF7011-1AU00-0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7011-1AU00-0

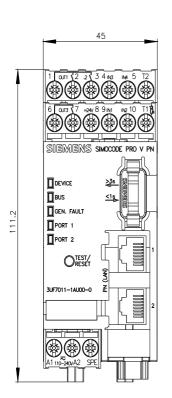
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

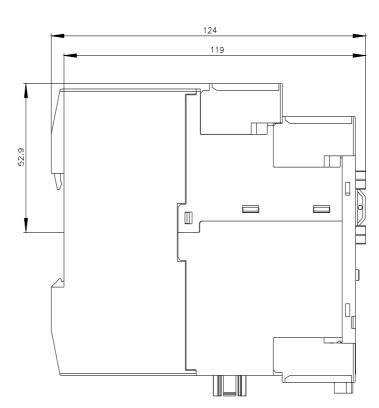
https://support.industry.siemens.com/cs/ww/en/ps/3UF7011-1AU00-0

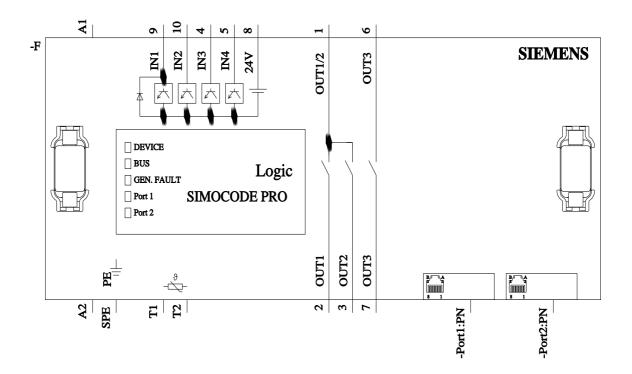
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7011-1AU00-0&lang=en

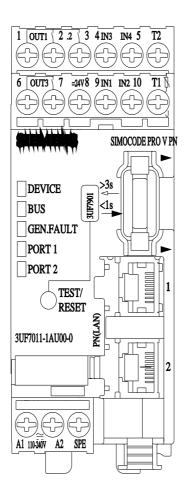
Test report No. A0258, protective separation

https://support.industry.siemens.com/cs/ww/en/view/109748152









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