SIEMENS

Data sheet 3UF7011-1AU00-2



Basic unit SIMOCODE pro V PN GP Ethernet/PROFINET IO, PN system redundancy, OPC UA server, Web server, transmission rate 100 Mbps, 1 x bus connection via RJ45, 4 I/3 Q freely parameterizable, Us: 110...240 V AC/DC, input for thermistor connection Monostable relay outputs, expandable by 1 extension module(DM, TM, EM)

product brand name	SIRIUS
product designation	Motor management system
design of the product	basic unit 3
product type designation	SIMOCODE pro V PN GP
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 	No
• fail-safe digital I/O module	No
 ground-fault monitoring module 	Yes
 control unit with display 	No
• control unit	Yes
analog I/O module	No
apparent power consumption	8.3 VA
consumed active power	4.5 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	
• according to IEC 60068-2-27	15g / 11 ms
switching capacity current of the NO contacts of the relay outputs at AC-15	
• at 24 V	6 A
• at 120 V	6 A
• at 230 V	3 A
switching capacity current of the NO contacts of the relay outputs at DC-13	

a at 24 V	2 ^
• at 24 V	2 A
• at 60 V	0.55 A
• at 125 V	0.25 A
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) typical	100 000
buffering time in the event of power failure	0.02 s
reference code according to IEC 81346-2	F
continuous current of the NO contacts of the relay outputs	
• 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)	08/31/2018
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7
certificate of suitability	
• IECEx	Yes; IECEx BVS 20.0020
 according to ATEX directive 2014/34/EU 	BVS 06 ATEX F001
according to UKCA	ITS21UKEX0464
explosion device group and category according to ATEX directive 2014/34/EU	II (2) G, II (2) D, I (M2)
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3
conducted interference	
 due to burst according to IEC 61000-4-4 	2 kV (power ports) / 1 kV (signal ports)
due to conductor-earth surge according to IEC 61000-4-5	2 kV
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV
 due to high-frequency radiation according to IEC 61000- 4-6 	10 V
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
conducted HF interference emissions according to CISPR11	corresponds to degree of severity A
field-bound HF interference emission according to CISPR11	corresponds to degree of severity A
Inputs/ Outputs	
product function	
p	
parameterizable inputs	Yes
parameterizable inputs	Yes Yes
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parameterizable inputs parameterizable outputs	Yes
parameterizable inputs parameterizable outputs number of inputs for thermistor connection	Yes 4
parameterizable inputs parameterizable outputs number of inputs for thermistor connection number of digital inputs with a common reference potential	Yes 4 1
parameterizable inputs parameterizable outputs number of inputs for thermistor connection number of digital inputs with a common reference potential digital input version	Yes 4 1
parameterizable inputs parameterizable outputs number of inputs for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131	Yes 4 1 4
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 HTTPS NTP Media Redundancy Protocol (MRP) No number of interfaces according to PROFINET according to PROFIBUS according to Ethernet/IP 0 product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation at the Ethernet interface Autosensing at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication (MRPD) is supported Device Level Ring (DLR) is supported PROFINET system redundancy (S2) supports PROFlenergy measured values 	Modbus RTUEtherNet/IPOPC UA ServerLLDP	No No Yes Yes
NTP Media Redundancy Protocol (MRP) No number of interfaces according to PROFINET according to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication (MRPD) is supported Device Level Ring (DLR) supports PROFlenergy measured values Yes Yes yes supports PROFlenergy measured values No No No No No No No No No N	 Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) 	No No Yes Yes
Media Redundancy Protocol (MRP) No number of interfaces according to PROFINET according to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation at the Ethernet interface Autonegotiation at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication (MRPD) is supported Device Level Ring (DLR) is supported PROFINET system redundancy (S2) supports PROFlenergy measured values Yes	 Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP 	No No Yes Yes Yes Yes
number of interfaces according to PROFINET according to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing at the Ethernet interface Autosensing at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication (MRPD) is supported Device Level Ring (DLR) is supported PROFINET system redundancy (S2) supports PROFlenergy measured values Yes 1 1 1 1 1 1 1 1 1 1 1 1 1	 Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS 	No No Yes Yes Yes Yes Yes
 according to PROFIBUS according to Ethernet/IP according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation at the Ethernet interface Autosensing at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication (MRPD) is supported Device Level Ring (DLR) is supported PROFINET system redundancy (S2) supports PROFlenergy measured values Yes 	 Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP 	No No Yes Yes Yes Yes Yes Yes
 according to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation at the Ethernet interface Autosensing at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication (MRPD) is supported Device Level Ring (DLR) is supported PROFINET system redundancy (S2) supports PROFlenergy measured values Yes 	 Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) 	No No Yes Yes Yes Yes Yes Yes
according to Ethernet/IP product function web server shared device shared device at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation at the Ethernet interface Autosensing at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication (MRPD) sis supported Device Level Ring (DLR) supported PROFINET system redundancy (S2) supports PROFlenergy measured values Yes O O Ves No Ves No Ves Ves	Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces	No No Yes Yes Yes Yes Yes Yes No
product function • web server • shared device • at the Ethernet interface Autocrossover • at the Ethernet interface Autonegotiation • at the Ethernet interface Autosensing • at the Ethernet interface Autosensing • Media Redundancy Protocol for Planned Duplication (MRPD) • is supported Device Level Ring (DLR) • is supported PROFINET system redundancy (S2) • supports PROFlenergy measured values Yes	Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces according to PROFINET	No No Yes Yes Yes Yes Yes Yes No
 web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation at the Ethernet interface Autosensing at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication (MRPD) is supported Device Level Ring (DLR) is supported PROFINET system redundancy (S2) supports PROFlenergy measured values 	Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces according to PROFIBUS	No No Yes Yes Yes Yes Yes Yes No
 shared device at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication (MRPD) is supported Device Level Ring (DLR) is supported PROFINET system redundancy (S2) supports PROFlenergy measured values 	Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces according to PROFINET according to PROFIBUS according to Ethernet/IP	No No Yes Yes Yes Yes Yes Yes No
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 Media Redundancy Protocol for Planned Duplication (MRPD) is supported Device Level Ring (DLR) is supported PROFINET system redundancy (S2) supports PROFlenergy measured values No 	Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces according to PROFINET according to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover	No No Yes Yes Yes Yes Yes Yes You O 1 O O Yes No Yes
(MRPD) • is supported Device Level Ring (DLR) • is supported PROFINET system redundancy (S2) • supports PROFlenergy measured values Yes	Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces according to PROFINET according to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation	No No Yes Yes Yes Yes Yes Yes No 1 0 0 Ves No Yes No Yes No Yes No Yes
 is supported PROFINET system redundancy (S2) supports PROFlenergy measured values Yes 	Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces according to PROFINET according to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing	No No Yes Yes Yes Yes Yes Yes No 1 0 0 Yes No Yes Yes Yes Yes
• supports PROFlenergy measured values Yes	Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces according to PROFINET according to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication	No No Yes Yes Yes Yes Yes Yes No 1 0 0 Yes No Yes Yes Yes Yes
••	Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces according to PROFINET according to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication (MRPD)	No No Yes Yes Yes Yes Yes Yes No 1 0 0 Yes No Yes No Yes No Yes No Yes No Yes No
	Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces according to PROFINET according to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication (MRPD) is supported Device Level Ring (DLR)	No No Yes Yes Yes Yes Yes Yes No 1 0 0 Yes No Yes No Yes No No No
• supports PROFlenergy shutdown Yes	Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces according to PROFINET according to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication (MRPD) is supported Device Level Ring (DLR) is supported PROFINET system redundancy (S2)	No No Yes Yes Yes Yes Yes Yes Yes No 1 0 0 Yes No Yes No

	400 MI ''
transfer rate maximum	100 Mbit/s
PROFINET conformity class	С
identification & maintenance function	v.
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	1 x 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	Yes
control circuit	
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)
 for AWG cables solid 	1x (20 12), 2x (20 14)
for AWG cables stranded	1x (20 14), 2x (20 16)
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
Ambient conditions	
installation altitude at height above sea level	
• 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 according to IEC 60721 	3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3
	(no salt mist), 3S2 (sand must not get into the devices), 3M6
 during storage according to IEC 60721 	1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2
a during transport constraint to IEO 00704	(sand must not get into the devices), 1M4
during transport according to IEC 60721 relative burnishing	2K2, 2C1, 2S1, 2M2
relative humidity	E 05 0/
• during operation	595%
contact rating of auxiliary contacts according to UL	B300 / R300
ESTATE OF THE PROTOCOLOR	
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)
· · · · · · · · · · · · · · · · · · ·	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)
design of short-circuit protection per output	
design of short-circuit protection per output Electrical Safety touch protection against electrical shock	breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A)
design of short-circuit protection per output Electrical Safety touch protection against electrical shock Galvanic isolation	breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A) finger-safe
design of short-circuit protection per output Electrical Safety touch protection against electrical shock	finger-safe All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be
design of short-circuit protection per output Electrical Safety touch protection against electrical shock Galvanic isolation (electrically) protective separation according to IEC 60947-1	breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A) finger-safe All circuits with protective separation (double creepage paths and clearances),
design of short-circuit protection per output Electrical Safety touch protection against electrical shock Galvanic isolation (electrically) protective separation according to IEC 60947-1 Control circuit/ Control	finger-safe All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information)
design of short-circuit protection per output Electrical Safety touch protection against electrical shock Galvanic isolation (electrically) protective separation according to IEC 60947-1 Control circuit/ Control product function soft starter control	finger-safe All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information) Yes
design of short-circuit protection per output Electrical Safety touch protection against electrical shock Galvanic isolation (electrically) protective separation according to IEC 60947-1 Control circuit/ Control product function soft starter control type of voltage of the control supply voltage	finger-safe All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information)
design of short-circuit protection per output Electrical Safety touch protection against electrical shock Galvanic isolation (electrically) protective separation according to IEC 60947-1 Control circuit/ Control product function soft starter control type of voltage of the control supply voltage control supply voltage at AC	finger-safe All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information) Yes AC/DC
design of short-circuit protection per output Electrical Safety touch protection against electrical shock Galvanic isolation (electrically) protective separation according to IEC 60947-1 Control circuit/ Control product function soft starter control type of voltage of the control supply voltage	finger-safe All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information) Yes

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
inrush current peak	
• at 240 V	15 A
duration of inrush current peak	
• at 240 V	1 ms
approvals Certificates	

Approvals Certificates

General Product Approval

EMC

For use in hazardous locations

Confirmation











For use in hazardous locations

Declaration of Conformity









Explosion Protection Certificate





Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate

Special Test Certificate







Marine / Shipping

other



Confirmation



Profibus

Further information

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

https://support.industry.siemens.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=3UF7011-1AU00-2

Cax online generator

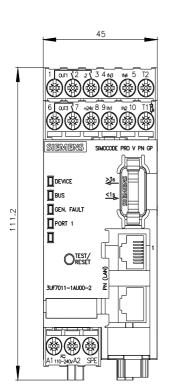
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7011-1AU00-2

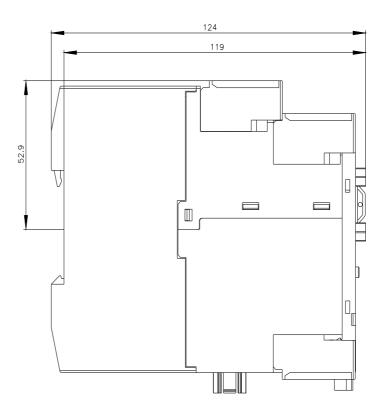
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UF7011-1AU00-2

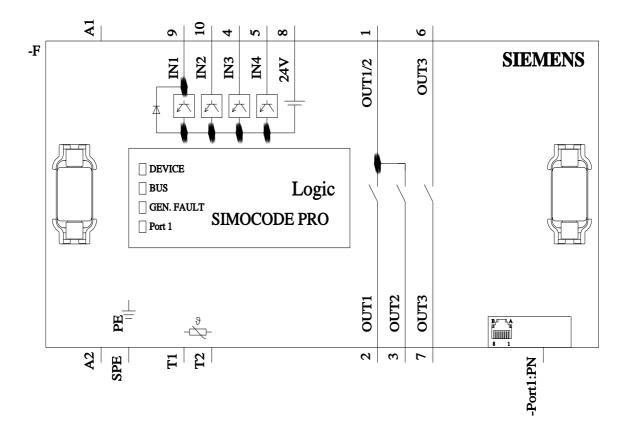
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7011-1AU00-2&lang=en

Test report No. A0258, protective separation

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







last modified: 10/20/2023 🖸