SIEMENS

Data sheet 3UF7011-1AU00-0



basic unit SIMOCODE pro V PN, Ethernet/PROFINET IO, PN system redundancy, OPC UA server, web server, transfer rate 100 Mbps, 2 x bus connection via RJ45, 4I/3O freely parameterizable, US: 110 - 240 V AC/DC, input for thermistor connection monostable relay outputs, expandable by expansion modules

product brand name	SIRIUS
product designation	Motor management system
design of the product	basic unit 3
product type designation	SIMOCODE pro V PN
Seneral 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 VA
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	
• according 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 230 V	3 Λ
• 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 (operating cycles) typical	10 000 000
electrical endurance (operating cycles) typical	100 000
buffering time in the event of power failure	0 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)	03/01/2017
certificate of suitability	
• IECEx	Yes; IECEx PTB 18.0004X
according to ATEX directive 2014/34/EU	BVS 06 ATEX F001, PTB 18 ATEX 5003 X
 acc. to Equipment and Protective System Intended for Use in Potentially Explosive Atmospheres Regulations 2016 (S.I. 2016 No.1107) 	ITS21UKEX0464, ITS21UKEX0455X
according to UKCA	ITS21UKEX0464, ITS21UKEX0455X
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 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	
parameterizable inputs	Yes
parameterizable outputs	Yes
number of inputs	4
• for thermistor connection	1
number of digital inputs with a common reference potential	4
digital input version	V
• type 1 acc. to IEC 61131	Yes
input voltage at digital input at DC rated value	24 V
number of outputs	3
number of semiconductor outputs	0
number of outputs as contact-affected switching element	3 managatable
switching behavior	monostable
type of relay outputs	Monostable 300 m
wire length for digital signals maximum wire length for thermistor connection	000 111
with conductor cross-section = 0.5 mm² maximum	50 m
with conductor cross-section = 0.5 min* maximum with conductor cross-section = 1.5 mm² maximum	150 m
with conductor cross-section = 1.5 min* maximum with conductor cross-section = 2.5 mm² maximum	250 m
Protective and monitoring functions	200 111
product function	
asymmetry detection	Yes
blocking current evaluation	Yes
Stocking Carrotte Statement	

 power factor monitoring 	Yes
ground fault detection	Yes
phase failure detection	Yes
 phase sequence recognition 	Yes
 voltage detection 	Yes
 monitoring of number of start operations 	Yes
 overvoltage detection 	Yes
 overcurrent detection 1 phase 	Yes
 undervoltage detection 	Yes
 undercurrent detection 1 phase 	Yes
active power monitoring	Yes
product function	
current detection	Yes
 overload protection 	Yes
 evaluation of thermistor motor protection 	Yes
total cold resistance number of sensors in series maximum	1.5 kΩ
response value of thermoresistor	3 400 3 800 Ω
of the short-circuit control	9 Ω
release value of thermoresistor	1 500 1 650 Ω
Motor control functions	
product function	
 parameterizable overload relay 	Yes
circuit breaker control	Yes
direct start	Yes
reverse starting	Yes
• star-delta circuit	Yes
star-delta reversing circuit	Yes
Dahlander circuit	Yes
Dahlander reversing circuit	Yes
 pole-changing switch circuit 	Yes
 pole-changing switch reversing circuit 	Yes
• slide control	Yes
valve control	Yes
Communication/ Protocol	
 protocol is supported PROFIBUS DP protocol 	No
 protocol is supported PROFINET IO protocol 	Yes
 protocol is supported PROFIsafe protocol 	Yes
 protocol is supported Modbus RTU 	No
 protocol is supported EtherNet/IP 	No
 protocol is supported OPC UA Server 	Yes
 protocol is supported LLDP 	Yes
 protocol is supported Address Resolution Protocol (ARP) 	Yes
 protocol is supported SNMP 	Yes
 protocol is supported HTTPS 	Yes
 protocol is supported NTP 	Yes
 protocol is supported Media Redundancy Protocol (MRP) 	Yes
product function is supported Device Level Ring (DLR)	No
number of interfaces	
according to PROFINET	2
according to PROFIBUS	0
according to Ethernet/IP	0
product function	
• web server	Yes
shared device	Yes
 at the Ethernet interface Autocrossover 	Yes
 at the Ethernet interface Autonegotiation 	Yes
 at the Ethernet interface Autosensing 	Yes
 Media Redundancy Protocol for Planned Duplication (MRPD) 	Yes
• is supported PROFINET system redundancy (S2)	Yes; S2 in conjunction with SIMATIC PCS 7 CPU 410-5H

	· ·
 supports PROFlenergy measured values 	Yes
supports PROFlenergy shutdown	Yes
transfer rate maximum	100 Mbit/s
PROFINET conformity class	В
identification & maintenance function	
 I&M0 - device-specific information 	Yes
 I&M1 - higher level designation/location designation 	Yes
1&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	
	Yes
product component removable terminal for auxiliary and control circuit	160
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
agricining torque war corow type terminale	0.0 1.2 14 111
tightening torque [lhf-in] with screw-type terminals	7 10.3 lhf-in
tightening torque [lbf-in] with screw-type terminals	7 10.3 lbf·in
Ambient conditions	7 10.3 lbf-in
Ambient conditions installation altitude at height above sea level	
Ambient conditions installation altitude at height above sea level • 1 maximum	2 000 m
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum	2 000 m 3 000 m; max. +50 °C (no protective separation)
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum	2 000 m
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation according to IEC 60721	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2
Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature during operation during storage during transport environmental category during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 relative humidity	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2
Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature during operation during storage during transport environmental category during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 during transport according to IEC 60721 during transport according to IEC 60721 eduring transport according to IEC 60721	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 %
installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature during operation during storage during transport environmental category during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 during transport according to IEC 60721 eduring transport according to IEC 60721 relative humidity during operation contact rating of auxiliary contacts according to UL	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2
installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature during operation during storage during transport environmental category during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 during transport according to IEC 60721 currently during operation contact rating of auxiliary contacts according to UL Short-circuit protection	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300
installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature during operation during storage during transport environmental category during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 during transport according to IEC 60721 eduring transport according to IEC 60721 relative humidity during operation contact rating of auxiliary contacts according to UL	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 %
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installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature during operation during storage during transport environmental category during operation according to IEC 60721 during storage according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 during transport according to IEC 60721 during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Safety related data touch protection against electrical shock Galvanic isolation (electrically) protective separation according to IEC 60947-1 Control circuit/ Control	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300 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) finger-safe All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be
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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
inrush current peak	
• at 240 V	5 A
duration of inrush current peak	
• at 240 V	1 ms
Certificates/ approvals	

Certificates/ approvals

General Product Approval

EMC





Confirmation







For use in hazardous locations

Declaration of Conformity





IECEx



IECEx



Explosion Protection Certificate



Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate

Special Test Certificate





Marine / Shipping

other





Confirmation



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,...)

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UF7011-1AU00-0

Cax online generator

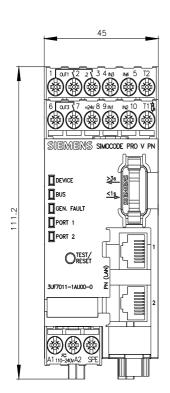
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7011-1AU00-0

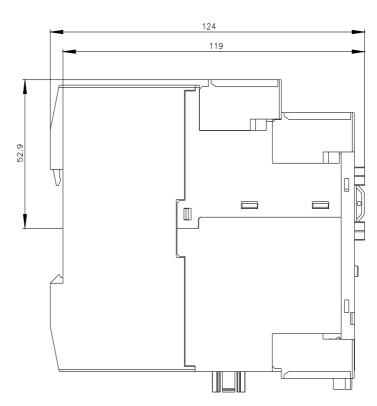
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

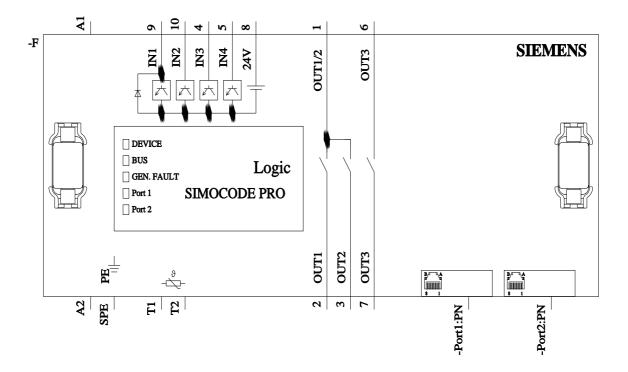
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7011-1AU00-0&lang=en

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