SIEMENS

Data sheet 3UF7011-1AB00-2



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 l/3 Q freely parameterizable, Us: 24 V 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
eneral 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
consumed active power	3.9 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
● 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
	F
reference code according to IEC 81346-2	r e
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
certificate of suitability	
 according to ATEX directive 2014/34/EU 	BVS 06 ATEX F001
 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
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
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2	10 V/m 6 kV contact discharge / 8 kV air discharge
electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to	6 kV contact discharge / 8 kV air discharge
electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11	6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A
electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11	6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A
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electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0
electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A Corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0 3
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phase failure detection	Yes
 phase sequence recognition 	No
 voltage detection 	No
 monitoring of number of start operations 	Yes
 overvoltage detection 	No
 overcurrent detection 1 phase 	Yes
 undervoltage detection 	No
 undercurrent detection 1 phase 	Yes
active power monitoring	No
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 circuit star-delta reversing circuit	No
Dahlander circuit	No
Dahlander reversing circuit	No
pole-changing switch circuit	No
	No
pole-changing switch reversing circuit	
slide control	No
valve control Communication/ Protocol	No
Communication/ Protocol	
a nyetocol is supported DDOCIDUC DD nyetocol	Ma
protocol is supported PROFIBUS DP protocol	No V
protocol is supported PROFINET IO protocol	Yes
protocol is supported PROFIsafe protocol	No
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)	No
product function is supported Device Level Ring (DLR)	No
number of interfaces	
 according to PROFINET 	1
 according to PROFIBUS 	0
according to Ethernet/IP	0
product function	
• web server	Yes
shared device	No
• 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) 	No
 is supported PROFINET system redundancy (S2) 	Yes; S2 in conjunction with SIMATIC PCS 7 CPU 410-5H
Supports DDOElsnargy magazired values	
 supports PROFlenergy measured values 	Yes
supports PROFlenergy measured valuessupports PROFlenergy shutdown	Yes Yes

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transfer rate maximum PROFINET conformity class	100 Mbit/s B
identification & maintenance function	U C C C C C C C C C C C C C C C C C C C
	Yes
 I&M0 - device-specific information I&M1 - higher level designation/location designation 	Yes
I&M2 - installation date	Yes
I&M3 - comment through distribution and the communication interface.	Yes Av. D.145
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	40
• top	40 mm
• bottom	40 mm
• left	0 mm
• right	0 mm
Connections/ Terminals	Voo
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)
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	100
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	4 000 III, IIIax. 140 O (IIO proteotive departation)
during operation	-25 +60 °C
during operation during storage	-40 +80 °C
during storage during transport	-40 +80 °C
environmental category	40 100 0
during operation according to IEC 60721	3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3
adding operation according to 120 00721	(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
	(sand must not get into the devices), 1M4
during transport according 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-
Safaty related data	breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A)
Safety related data	figures and
touch protection against electrical shock	finger-safe
Galvanic isolation	All elevation with protective covered to device and the second
(electrically) protective separation according to IEC 60947-1	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)
Control circuit/ Control	
product function soft starter control	Yes
type of voltage of the control supply voltage	DC
control supply voltage at DC	
• rated value	24 V
control supply voltage 1 at DC rated value	24 V
·	

operating range factor control supply voltage rated value at DC	
• initial value	0.85
• full-scale value	1.2
inrush current peak	
● at 24 V	17 A
duration of inrush current peak	
● at 24 V	1.1 ms
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Certificates/ approvals

For use in hazard-**General Product Approval EMC** ous 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



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=3UF7011-1AB00-2

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3UF7011-1AB00-2}$

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

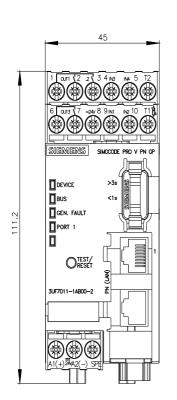
https://support.industry.siemens.com/cs/ww/en/ps/3UF7011-1AB00-2

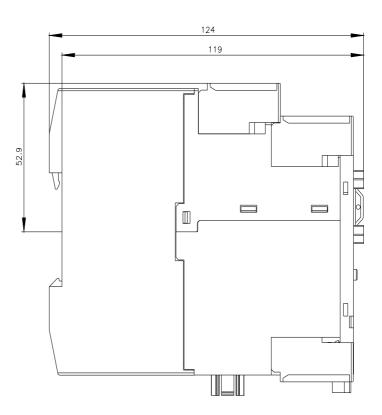
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

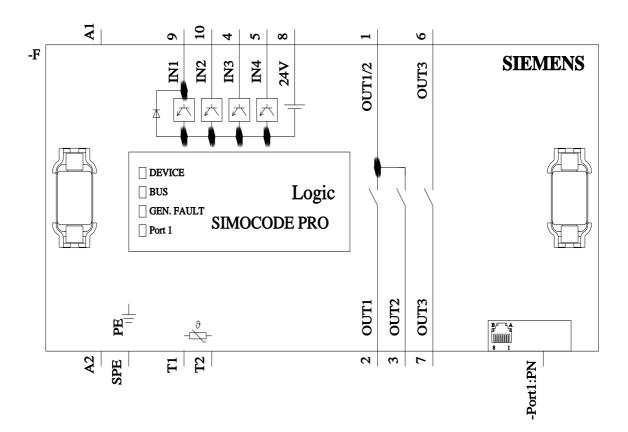
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7011-1AB00-2&lang=en

Test report No. A0258, protective separation

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







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