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/30 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			
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 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				

• at 24 V	2 A			
• at 24 v • at 60 V	2 A 0.55 A			
• at 60 V • at 125 V	0.25 A			
	10 000 000			
mechanical service life (operating cycles) typical	10 000			
electrical endurance (operating cycles) typical				
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)	03/01/2017			
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 / IECEx PTB 18.0004X			
 according to ATEX directive 2014/34/EU 	BVS 06 ATEX F001, PTB 18 ATEX 5003 X			
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 (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				
• 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			
switching behavior	monostable			
type of relay outputs	Monostable			
wire length for digital signals maximum	300 m			
wire length for thermistor connection				
• with conductor cross-section = 0.5 mm ² maximum	50 m			
• with conductor cross-section = 1.5 mm ² maximum	150 m			
 with conductor cross-section = 2.5 mm² maximum 	250 m			
Protective and monitoring functions				
product function				
 asymmetry detection 	Yes			
blocking current evaluation	Yes Yes			

all and follows that the C	
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
valve control Communication/ Protocol	Yes
	Yes
Communication/ Protocol	Yes
Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET IO protocol	
Communication/ Protocol protocol is supported • PROFIBUS DP protocol	No
Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET IO protocol	No Yes
Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET IO protocol • PROFIsafe protocol	No Yes Yes
Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET IO protocol • PROFIsafe protocol • Modbus RTU	No Yes Yes No
Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET IO protocol • PROFIsafe protocol • Modbus RTU • EtherNet/IP	No Yes Yes No No
Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET IO protocol • PROFIsafe protocol • Modbus RTU • EtherNet/IP • OPC UA Server	No Yes Yes No No Yes
Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET IO protocol • PROFIsafe protocol • Modbus RTU • EtherNet/IP • OPC UA Server • LLDP	No Yes Yes No No Yes Yes
Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET IO protocol • PROFIsafe protocol • Modbus RTU • EtherNet/IP • OPC UA Server • LLDP • Address Resolution Protocol (ARP)	No Yes Yes No Yes Yes Yes
Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET IO protocol • PROFIsafe protocol • Modbus RTU • EtherNet/IP • OPC UA Server • LLDP • Address Resolution Protocol (ARP) • SNMP • HTTPS • NTP	No Yes Yes No No Yes Yes Yes Yes
Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET IO protocol • PROFIsafe protocol • Modbus RTU • EtherNet/IP • OPC UA Server • LLDP • Address Resolution Protocol (ARP) • SNMP • HTTPS	No Yes Yes No No Yes Yes Yes Yes
Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET IO protocol • PROFIsafe protocol • Modbus RTU • EtherNet/IP • OPC UA Server • LLDP • Address Resolution Protocol (ARP) • SNMP • HTTPS • NTP	No Yes Yes No Yes Yes Yes Yes Yes Yes
Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP)	No Yes Yes No Yes Yes Yes Yes Yes Yes
Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFISafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces	No Yes Yes No No Yes Yes Yes Yes Yes Yes Yes Yes
Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol 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 Yes Yes No No Yes Yes Yes Yes Yes Yes Yes
Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol 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	No Yes Yes No No Yes Yes Yes Yes Yes Yes Yes
Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol 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 Yes Yes No No Yes Yes Yes Yes Yes Yes Yes Yes
Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFISafe protocol 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	No Yes Yes No No Yes Yes Yes Yes Yes Yes Yes
Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFISafe protocol 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	No Yes Yes No No Yes Yes Yes Yes Yes Yes Yes Yes
Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFISafe protocol 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 PROFINET according to Ethernet/IP product function web server shared device	No Yes Yes No No Yes Yes Yes Yes Yes Yes Yes Yes
Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFISafe protocol 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 PROFINET according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover	No Yes Yes No No Yes Yes Yes Yes Yes Yes Yes Yes
Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFISafe protocol 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 at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication	No Yes Yes No No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFISafe protocol 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 Yes Yes No No No No Yes
Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol 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 Autocrossover at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication (MRPD) is supported Device Level Ring (DLR)	No Yes Yes No No No No Yes Yes
Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol 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 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 Yes Yes No No No No Yes No Yes
Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol 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 Autocrossover at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication (MRPD) is supported Device Level Ring (DLR)	No Yes Yes No No No No Yes Yes

transfer rate mavimum	100 MbH/a			
transfer rate maximum	100 Mbit/s			
PROFINET conformity class	C			
identification & maintenance function				
I&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	Yes			
control circuit				
type of connectable conductor cross-sections				
• solid	1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²)			
 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 (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-			
	breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A)			
Electrical Safety				
touch protection against electrical shock	finger-safe			
Galvanic isolation				
(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	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						
	e frequency					
 1 rated value 			50 Hz			
 2 rated value 			60 Hz			
relative symmetrical t frequency	olerance of the control s	supply voltage	5 %			
control supply voltage	e at DC					
 rated value 			110 240 V			
operating range facto DC	or control supply voltage	rated value at				
 initial value 			0.85			
 full-scale value 			1.1			
operating range facto AC at 50 Hz	or control supply voltage	rated value at				
 initial value 			0.85			
 full-scale value 			1.1			
operating range facto AC at 60 Hz	or control supply voltage	rated value at				
 initial value 			0.85			
 full-scale value 			1.1			
inrush current peak						
• at 240 V			15 A			
duration of inrush cur	rrent peak					
• at 240 V			1 ms			
pprovals Certificates						
General Product App	roval				EMC	For use in hazard- ous locations
	<u>Confirmation</u>	(ال س	E	AC	RCM	K ATEX
For use in hazardous	locations				Declaration of Cor	nformity
IECEx	IECEx	(Ex)	Explosior Cert	<u>Protection</u> ificate	UK	CE
IECEx		ATEX			CA	EG-Konf.
	IECEx					
Test Certificates	IECEx		Marine /	Shipping		
Test Certificates	IECEx			Shipping		
Test Certificates	IECEx Special Test Certific- ate	<u>Special Test Ce</u> ate		Shipping	Lloyd's Register Lits	EXAMPLE
Type Test Certific-	Special Test Certific-			Shipping	Hoyd's Register us	RMRS
<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate			Shipping	Lloyd's Kegister LRS	EXAMPLE
<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> ate			Shipping	Llovd's Kegister uts	KARS
<u>Type Test Certific-</u> <u>ates/Test Report</u>	Special Test Certific- ate	ate		Shipping	Llovd's Register LRS	KMRS RMRS
Type Test Certific- ates/Test Report	Special Test Certific- ate	ate		Shipping	Hovd's Register uts	KARS
Type Test Certificates/Test Report Marine / Shipping	Special Test Certific- ate			Shipping	Llovd's Kegister urs	EXAMPLE
Type Test Certific- ates/Test Report	Special Test Certific- ate			Shipping	Llovd's Register LRS	RARS
Type Test Certific- ates/Test Report	Special Test Certific- ate	ate Profibus		Shipping	Liks	EMRS
Type Test Certific- ates/Test Report	Special Test Certific- ate other Confirmation	ate Profibus ket (see here).	ertific-	ABS	Lits	FMRS
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Type Test Certific- ates/Test Report	Special Test Certific- ate other Confirmation Confirmation	ate Profibus Profibus ket (see here). e/siemens-wind-do rent EAC certifica status of validity of EAEU member sta ew/109813875	wwn-russian-busines the EAC certification	NBS NBS n if you intend	LIPS LIPS	Supply these products to an

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

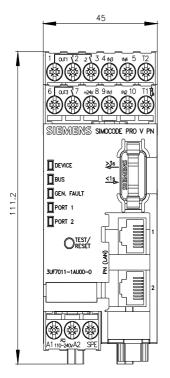
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UF7011-1AU00-0

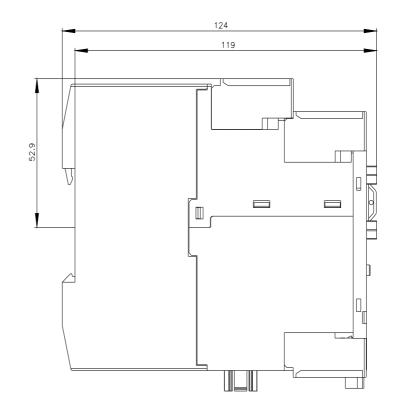
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

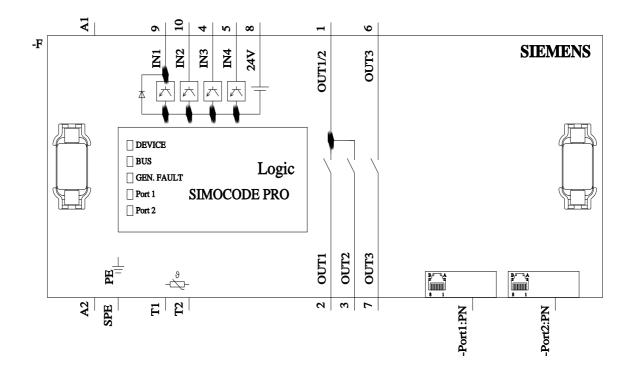
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7011-1AU00-0&lang=en

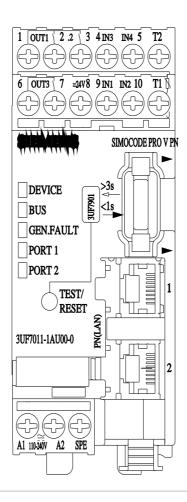
Test report No. A0258, protective separation

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









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