## **SIEMENS**

Data sheet 3UF7000-1AU00-0



Basic unit SIMOCODE pro C, PROFIBUS DP interface 12 Mbit/s, RS 485, 4I/3O freely parameterizable, Us: 110...240 V AC/DC, input for thermistor connection Monostable relay outputs

product brand name	SIRIUS
product designation	Motor management system
design of the product	basic unit 1
product type designation	SIMOCODE pro C
General technical data	
product function	
<ul> <li>bus communication</li> </ul>	Yes
<ul> <li>data acquisition function</li> </ul>	Yes
<ul> <li>diagnostics function</li> </ul>	Yes
<ul> <li>password protection</li> </ul>	Yes
• test function	Yes
<ul> <li>maintenance function</li> </ul>	Yes
product component	
<ul> <li>input for thermistor connection</li> </ul>	Yes
digital input	Yes
<ul> <li>input for analog temperature sensors</li> </ul>	No
<ul> <li>input for ground fault detection</li> </ul>	No
<ul> <li>relay output</li> </ul>	Yes
product extension	
<ul> <li>temperature monitoring module</li> </ul>	No
<ul> <li>current measuring module</li> </ul>	Yes
<ul> <li>current/voltage measuring module</li> </ul>	No
fail-safe digital I/O module	No
<ul> <li>ground-fault monitoring module</li> </ul>	No
<ul> <li>control unit with display</li> </ul>	No
• control unit	Yes
analog I/O module	No
apparent power consumption	5.3 VA
consumed active power	2.9 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
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	

-1041/	0.4
• 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	0.05 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)	05/01/2012
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
certificate of suitability	
<ul> <li>according to ATEX directive 2014/34/EU</li> </ul>	BVS 06 ATEX F001
<ul> <li>acc. to Equipment and Protective System Intended for Use in Potentially Explosive Atmospheres Regulations 2016 (S.I. 2016 No.1107)</li> </ul>	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
<ul> <li>due to high-frequency radiation according to IEC 61000- 4-6</li> </ul>	10 V
field beard interference according to IEC C1000 1.2	10 V/m
field-based interference according to IEC 61000-4-3	10 4/111
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	6 kV contact discharge / 8 kV air discharge
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 • parameterizable inputs	6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A 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
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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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  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 input voltage at digital input at DC rated value  number of outputs  number of outputs  number of outputs as contact-affected switching element switching behavior  type of relay outputs  wire length for digital signals maximum  wire length for thermistor connection  with conductor cross-section = 0.5 mm² maximum  with conductor cross-section = 1.5 mm² maximum	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 monostable Monostable 300 m
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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  • 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 input voltage at digital input at DC rated value  number of outputs  number of outputs  number of outputs as contact-affected switching element switching behavior type of relay outputs  wire length for digital signals maximum  wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum	6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A  corresponds to degree of severity A  Yes Yes Yes 4 1 4  Yes 24 V 3 0 3 monostable Monostable 300 m  50 m 150 m 250 m

phase failure detection	Yes
<ul> <li>phase sequence recognition</li> </ul>	No
<ul> <li>voltage detection</li> </ul>	No
<ul> <li>monitoring of number of start operations</li> </ul>	Yes
overvoltage detection	No
<ul> <li>overcurrent detection 1 phase</li> </ul>	Yes
<ul> <li>undervoltage detection</li> </ul>	No
<ul> <li>undercurrent detection 1 phase</li> </ul>	Yes
active power monitoring	No
product function	
current detection	Yes
<ul> <li>overload protection</li> </ul>	Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>	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	
<ul> <li>parameterizable overload relay</li> </ul>	Yes
circuit breaker control	Yes
<ul><li>direct start</li></ul>	Yes
reverse starting	Yes
star-delta circuit	No
star-delta reversing circuit	No
Dahlander circuit	No
Dahlander reversing circuit	No
pole-changing switch circuit	No
<ul> <li>pole-changing switch reversing circuit</li> </ul>	No
slide control	No
valve control	No
Communication/ Protocol	
Communication/ Protocol protocol is supported	
	Yes
protocol is supported	Yes No
protocol is supported  • PROFIBUS DP protocol	
protocol is supported  • PROFIBUS DP protocol  • PROFINET IO protocol	No
protocol is supported  • PROFIBUS DP protocol  • PROFINET IO protocol  • PROFIsafe protocol	No No
protocol is supported  • PROFIBUS DP protocol  • PROFINET IO protocol  • PROFIsafe protocol  • Modbus RTU	No No No
protocol is supported  PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP	No No No
protocol is supported  PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP OPC UA Server	No No No No
protocol is supported  • PROFIBUS DP protocol  • PROFINET IO protocol  • PROFIsafe protocol  • Modbus RTU  • EtherNet/IP  • OPC UA Server  • LLDP	No No No No No
protocol is supported  PROFIBUS DP protocol  PROFINET IO protocol  PROFIsafe protocol  Modbus RTU  EtherNet/IP  OPC UA Server  LLDP  Address Resolution Protocol (ARP)	No No No No No No No No
protocol is supported  PROFIBUS DP protocol  PROFINET IO protocol  PROFIsafe protocol  Modbus RTU  EtherNet/IP  OPC UA Server  LLDP  Address Resolution Protocol (ARP)  SNMP	No
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
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 N
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 N
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 N
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 PROFIBUS	No N
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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 PROFIBUS according to Ethernet/IP  product function	No N
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 PROFIBUS  according to Ethernet/IP  product function  web server  shared device	No N
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 PROFIBUS  according to PROFIBUS  according to Ethernet/IP  product function  web server  shared device  at the Ethernet interface Autocrossover	No N
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	No N
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	No N
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)  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 is supported Device Level Ring (DLR)	No N
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)  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 is supported Device Level Ring (DLR) is supported PROFINET system redundancy (S2)	No N
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protocol is supported  PROFIBUS DP protocol PROFINET IO protocol PROFISATE protocol PROFISATE 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 is supported Device Level Ring (DLR) is supports PROFIEnergy measured values supports PROFIEnergy shutdown	No N
protocol is supported  PROFIBUS DP protocol PROFINET IO protocol PROFISATE protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP)  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 is supported PROFINET system redundancy (S2) supports PROFINET system redundancy (S2)	No N

10MO design our officient amounting	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	9-pin SUB-D socket (12 Mbit) / screw terminal (1.5 Mbit)
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting
height	111 mm
width	45 mm
depth	95 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
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 (0.5 2.5 Hilli-), 2x (0.5 1.5 Hilli-) 1x (20 12), 2x (20 14)
• for AWG cables solid • for AWG cables stranded	1x (20 12), 2x (20 14) 1x (20 14), 2x (20 16)
	0.8 1.2 N·m
tightening torque with screw-type terminals	7 10.3 lbf·in
tightening torque [lbf-in] with screw-type terminals	
type of connectable conductor cross-sections for PROFIBUS wire	2x 0.34 mm², AWG 22
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	
<ul> <li>during operation</li> </ul>	-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
<ul> <li>during transport according to IEC 60721</li> </ul>	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	No
<u> </u>	No AC/DC
type of voltage of the control supply voltage	
type of voltage of the control supply voltage control supply voltage at AC	AC/DC
type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz rated value	AC/DC 110 240 V
type of voltage of the control supply voltage control supply voltage at AC	AC/DC

• 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	3 A
duration of inrush current peak	
• at 240 V	1 ms
Annroyale Cartificates	

Approvals Certificates

**General Product Approval** 

EMC

For use in hazardous locations



Confirmation









For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 





Explosion Protection Certificate





Type Test Certificates/Test Report

**Test Certificates** 

Marine / Shipping

other

Special Test Certificate









Confirmation

other



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=3UF7000-1AU00-0

## Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7000-1AU00-0

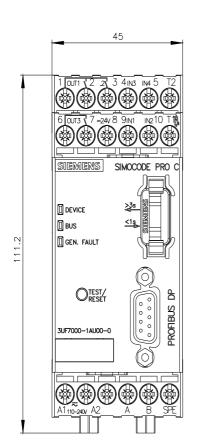
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

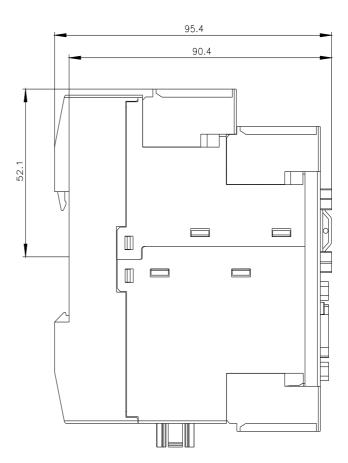
https://support.industry.siemens.com/cs/ww/en/ps/3UF7000-1AU00-0

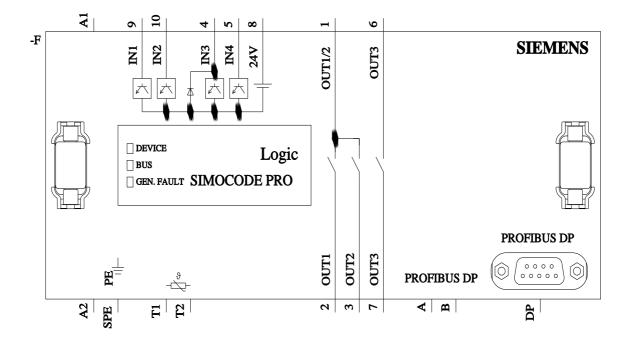
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UF7000-1AU00-0&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UF7000-1AU00-0&lang=en</a>

Test report No. A0258, protective separation

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







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