



basic device SIMOCODE pro C, PROFIBUS DP interface 12 Mbps, RS-485, 4 I/3 O freely configurable, 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	
certificate of suitability	CE / UL / CSA / CCC / C-Tick (RCM) / GOST / NOM / ATEX / NEPSI / ABS / DNV / GL / LRS / RoHS
product function	• current measurement • voltage measurement • active power measurement • energy measurement • frequency measurement • bus communication • data acquisition function • diagnostics function • password protection • test function • maintenance function • MRRT redundancy procedure
product component	• input for thermistor connection • digital input • input for analog temperature sensors • input for ground fault detection • relay output
product extension	• temperature monitoring module • current measuring module • current/voltage measuring module • fail-safe digital I/O module • ground-fault monitoring module • decoupling module • analog I/O module • digital I/O module with monostable outputs • digital I/O module with bistable outputs • control unit with display • control unit
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
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	0.05 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	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Weight	0.31 kg
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
number of relay outputs	3
type of relay outputs	Monostable
wire length for digital signals maximum	300 m
wire length for thermistor connection	

• with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum	50 m 150 m 250 m
Protective and monitoring functions	
product function	
• asymmetry detection • blocking current evaluation • power factor monitoring • ground fault detection • ground-fault monitoring • phase failure detection • phase sequence recognition • voltage detection • monitoring of number of start operations • overvoltage detection • overcurrent detection 1 phase • undervoltage detection • undercurrent detection 1 phase • active power monitoring	Yes Yes No Yes No Yes No No Yes No Yes No Yes No
product function	
• current detection • overload protection • evaluation of thermistor motor protection	Yes Yes 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 • circuit breaker control • direct start • reverse starting • star-delta circuit • star-delta reversing circuit • Dahlander circuit • Dahlander reversing circuit • pole-changing switch circuit • pole-changing switch reversing circuit • slide control • valve control	Yes Yes Yes Yes No No No No No No No No
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)	Yes No No No No No No No No No No
product function	
• web server • shared device • at the Ethernet interface Autocrossover • at the Ethernet interface Autonegotiation	No No No No

• at the Ethernet interface Autosensing • is supported Device Level Ring (DLR) • is supported PROFINET system redundancy (S2) • supports PROFINET energy measured values • supports PROFINET energy shutdown	No
transfer rate maximum	12 Mbit/s
identification & maintenance function	
• I&M0 - device-specific information • I&M1 - higher level designation/location designation • I&M2 - installation date • I&M3 - comment	Yes Yes Yes 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 • bottom • left • right	40 mm 40 mm 0 mm 0 mm
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
• for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
• solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded	1x (0.5 ... 4.0 mm ²), 2x (0.5 ... 2.5 mm ²) 1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²) 1x (20 ... 12), 2x (20 ... 14) 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
type of connectable conductor cross-sections for PROFIBUS wire	2x 0.34 mm ² , AWG 22
Ambient conditions	
installation altitude at height above sea level	
• 1 maximum • 2 maximum • 3 maximum	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)
ambient temperature	
• during operation • during storage • during transport	-25 ... +60 °C -40 ... +80 °C -40 ... +80 °C
environmental category	
• during operation according to IEC 60721 • during storage according to IEC 60721 • during transport 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 1K6 (no condensation, relative humidity 10 ... 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 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 _N < 500 A)
Electrical Safety	
touch protection against electrical shock	finger-safe
ATEX	
certificate of suitability	

• according to ATEX directive 2014/34/EU • acc. to Equipment and Protective System Intended for Use in Potentially Explosive Atmospheres Regulations 2016 (S.I. 2016 No.1107) • according to UKCA	BVS 06 ATEX F001 ITS21UKEX0464, ITS21UKEX0455X ITS21UKEX0464
explosion device group and category according to ATEX directive 2014/34/EU	II (2) G, II (2) D, I (M2)

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)
design of the electrical isolation • note	Protective separation in accordance with IEC 60947-1 for all circuits Test report No. A0258 must be observed (link see further information)

Control circuit/ Control

product function soft starter control	No
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value	110 ... 240 V 110 ... 240 V
control supply voltage frequency • 1 rated value • 2 rated value	50 Hz 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 • full-scale value	0.85 1.1
operating range factor control supply voltage rated value at AC at 50 Hz • initial value • full-scale value	0.85 1.1
operating range factor control supply voltage rated value at AC at 60 Hz • initial value • full-scale value	0.85 1.1
inrush current peak • at 240 V	3 A
duration of inrush current peak • at 240 V	1 ms

Approvals Certificates

General Product Approval	EMV
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EMV	For use in hazardous locations	Test Certificates
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[KC](#)



[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

Test Certificates	Maritime application	other
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[Special Test Certificate](#)



[Confirmation](#)

[Environmental Confirmations](#)


Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

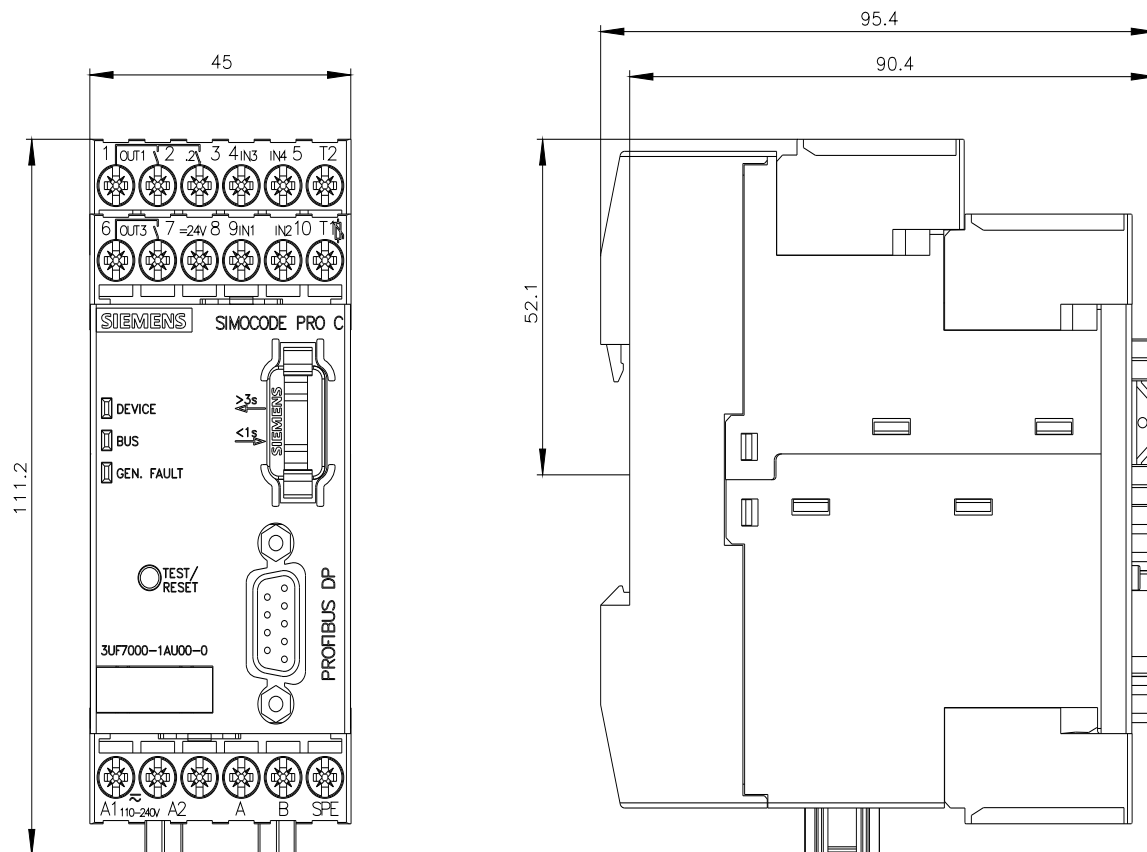
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7000-1AU00-0>

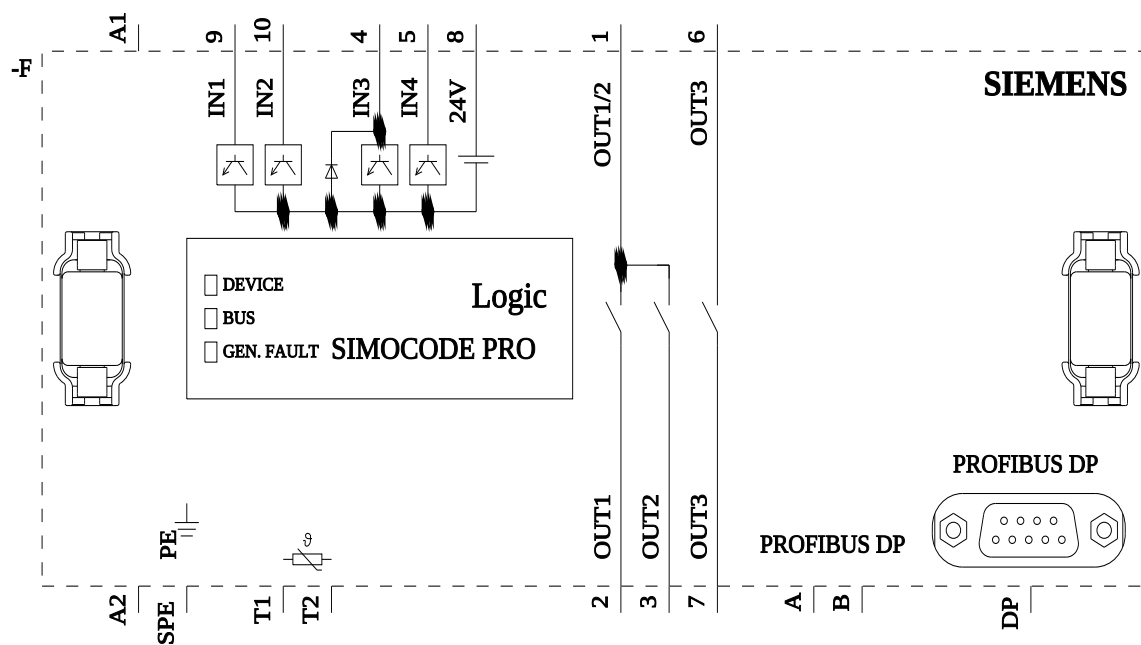
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<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, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7000-1AU00-0&lang=en





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