SIEMENS

Data sheet 3UF7010-1AU00-0



Basic unit SIMOCODE pro V PB 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, expandable by extension modules

product brand name	SIRIUS
product designation	Motor management system
design of the product	basic unit 2
product type designation	SIMOCODE pro V PB
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	3.6 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	
• acc. 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

-+ 000 V	0.4
• 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 (switching cycles) typical	10 000 000
electrical endurance (switching cycles) typical	100 000
buffering time in the event of power failure	0.2 s
reference code acc. 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)	01.05.2012
	01.03.2012
certificate of suitability	V 1505 DTD 40 0004V
• IECEx	Yes; IECEX PTB 18.0004X
according to ATEX directive 2014/34/EU	BVS 06 ATEX F001, PTB 18 ATEX 5003 X
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 acc. to IEC 60947-1	class A
EMC immunity acc. to IEC 60947-1	corresponds to degree of severity 3
conducted interference	consequence to degree of severity of
	2 W/ (nower ports) / 1 W/ (circul ports)
• due to burst acc. to IEC 61000-4-4	2 kV (power ports) / 1 kV (signal ports)
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV
 due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV
 due to high-frequency radiation acc. to IEC 61000- 4-6 	10 V
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
conducted HF interference emissions acc. to CISPR11	corresponds to degree of severity A
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11	The state of the s
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs	corresponds to degree of severity A
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function • parameterizable inputs	corresponds to degree of severity A corresponds to degree of severity A Yes
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A Yes
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conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1 4
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conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0
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conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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 semiconductor 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	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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 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 circuit star-delta reversing circuit	Yes
Dahlander circuit	Yes
	Yes
Dahlander reversing circuit Prole changing switch circuit	Yes
pole-changing switch circuit	
pole-changing switch reversing circuit	Yes
 slide control 	Yes
h.a. aantaal	V
valve control	Yes
valve control Communication/ Protocol	Yes
Communication/ Protocol • protocol is supported PROFIBUS DP protocol	Yes
Protocol protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol	
Protocol protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe protocol	Yes
protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe protocol protocol is supported Modbus RTU	Yes No
protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe protocol protocol is supported Modbus RTU protocol is supported EtherNet/IP	Yes No Yes
protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe protocol protocol is supported Modbus RTU	Yes No Yes No
protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe protocol protocol is supported Modbus RTU protocol is supported EtherNet/IP	Yes No Yes No No
protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISafe protocol protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP protocol is supported Address Resolution Protocol (ARP)	Yes No Yes No No No
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protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISATE protocol protocol is supported PROFISATE protocol protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces	Yes No Yes No
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protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISATE protocol protocol is supported PROFISATE protocol protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET accc. to PROFIBUS	Yes No Yes No
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protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISATE protocol protocol is supported PROFISATE protocol protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover	Yes No Yes No
protocol is supported PROFIBUS DP protocol protocol is supported PROFIBUS DP protocol protocol is supported PROFISATE protocol protocol is supported PROFISATE protocol protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation	Yes No Yes No
protocol is supported PROFIBUS DP protocol protocol is supported PROFISATE IO protocol protocol is supported PROFISATE protocol protocol is supported PROFISATE protocol protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing	Yes No Yes No

Annual and an anti-	40 MbWa
transfer rate maximum	12 Mbit/s
identification & maintenance function	V
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	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	124 mm
required spacing	
• top	40 mm
• bottom	40 mm
● left	0 mm
• right	0 mm
Connections/ Terminals	
product component removable terminal for auxiliary	Yes
and control circuit	
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)
 at AWG cables solid 	1x (20 12), 2x (20 14)
 at 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
type of connectable conductor cross-sections for	2x 0.34 mm², AWG 22
PROFIBUS wire	
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 acc. 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 acc. 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 acc. to IEC 60721	2K2, 2C1, 2S1, 2M2
relative humidity	5 05 %
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)
Safety related data	3.7.1.2.3.3.1.3.1.3.1.1.1.2.3.3.1.3.1.3.1.1.1.1
touch protection against electrical shock	finger-safe
Galvanic isolation	
	All circuits with protective congration (double crospess noths and
(electrically) protective separation acc. 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	No. A0258, must be observed (link see further information)
Control circuit/ Control product function soft starter control	No. A0258, must be observed (link see further information) Yes

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control supply voltage at AC	
 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
Partificatos/ approvals	

Certificates/ approvals

General Product Approval

For use in hazardous locations



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping

other



Special Test Certificate

Type Test Certificates/Test Report

Special Test Certificate



Confirmation

other



Profibus

Further information

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=3UF7010-1AU00-0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7010-1AU00-0

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

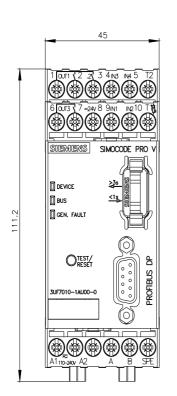
https://support.industry.siemens.com/cs/ww/en/ps/3UF7010-1AU00-0

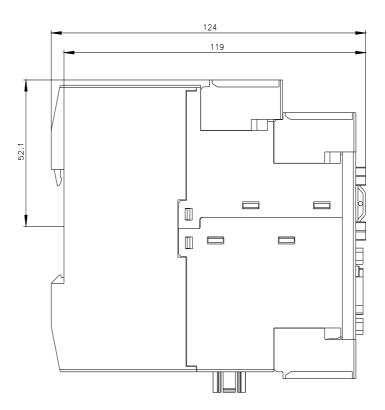
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

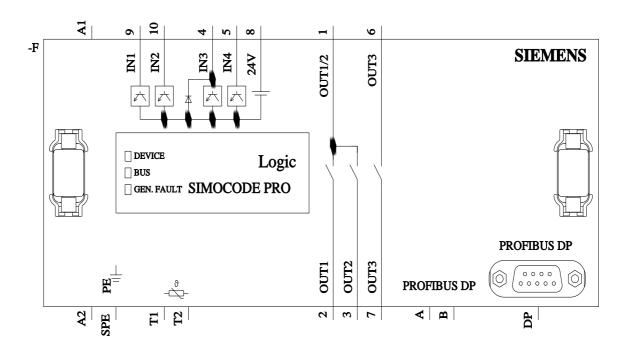
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7010-1AU00-0&lang=en

Test report No. A0258, protective separation

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







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