SIEMENS

product brand name

Data sheet 3UF7010-1AU00-0

SIRIUS



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 V·A
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

220 \/	2.4
• 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
certificate of suitability	
• 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	II (2) G, II (2) D, I (M2) / I (1G/M2), II (1/2) G, II (1G/2D)
directive 2014/34/EU	
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	
 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
4-0	
field based interference and to IEC 61000 4.2	10 V/m
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 conducted HF interference emissions acc. to CISPR11	6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11	6 kV contact discharge / 8 kV air discharge
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs	6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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 Yes
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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 acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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 monostable
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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 monostable Monostable
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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 monostable
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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 Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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 Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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 monostable Monostable Monostable 300 m
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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 Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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 monostable Monostable Monostable 300 m
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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 monostable Monostable Monostable 300 m
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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 monostable Monostable Monostable 300 m
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	6 kV contact discharge / 8 kV air discharge 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
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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 Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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 Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. 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 Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m

1	V
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 circuit Dahlander reversing circuit	Yes
pole-changing switch circuit	Yes
	Yes
 pole-changing switch reversing circuit slide control 	Yes
valve control	
• valve control	Yes
Communication/ Brotocol	
Communication/ Protocol	
protocol is supported PROFIBUS DP protocol	Yes
protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol	No
 protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe protocol 	No Yes
 protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe protocol protocol is supported Modbus RTU 	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 	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 	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 	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 	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 	No Yes No 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) 	No Yes No No No 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) protocol is supported SNMP 	No Yes No No No No No No 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) protocol is supported SNMP protocol is supported HTTPS 	No Yes No No No No No No 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) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol 	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 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 	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 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 Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) 	No Yes No
protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO 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	No Yes No
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	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 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 	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 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 	No Yes No
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 PROFIBUS according to Ethernet/IP product function	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 PROFINET acc. to PROFIBUS according to Ethernet/IP product function web server	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 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 	No Yes No
 protocol is supported PROFIBUS DP protocol protocol is supported PROFISATE IO 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 at the Ethernet interface Autonegotiation 	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 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 at the Ethernet interface Autosensing 	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 protocol is supported OPC UA Server protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported Media Redundancy Protocol (MRP) 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 at the Ethernet interface Autosensing is supported PROFINET system redundancy 	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 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 at the Ethernet interface Autosensing 	No Yes No

transfer rate maximum	12 Mbit/s
identification & maintenance function	12 IVINIO
I&M0 - device-specific information	Yes
I&M1 – higher level designation/location designation	Yes
• I&M2 - installation date	Yes
18M3 - comment The of all attical comments of the communication.	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	2 000 m
• 1 maximum	
• 2 maximum	3 000 m; max. +50 °C (no protective separation)
• 3 maximum	4 000 m; max. +40 °C (no protective separation)
ambient temperature	2F 160 °C
during operation	-25 +60 °C
during storage	-40 +80 °C
during transport	-40 +80 °C
environmental category	2K6 (no formation of ico no condensation relative hymidity 40 050/)
 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),
aag 5.5.5g5 400. to 120 00.21	1S2 (sand must not get into the devices), 1M4
 during transport acc. to IEC 60721 	2K2, 2C1, 2S1, 2M2
1.0 1 1.0	
relative humidity	
during operation	5 95 %
•	5 95 % B300 / R300
during operation	
during operation contact rating of auxiliary contacts according to UL	B300 / R300 Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature
during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output	B300 / R300
during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Safety related data	B300 / R300 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)
during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Safety related data touch protection against electrical shock	B300 / R300 Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature
during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Safety related data	B300 / R300 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)
during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Safety related data touch protection against electrical shock	B300 / R300 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)
during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Safety related data touch protection against electrical shock Galvanic isolation	B300 / R300 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) finger-safe All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report,
during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Safety related data touch protection against electrical shock Galvanic isolation (electrically) protective separation acc. to IEC 60947-1	B300 / R300 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) finger-safe All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report,
during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Safety related data touch protection against electrical shock Galvanic isolation (electrically) protective separation acc. to IEC 60947-1 Control circuit/ Control	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) finger-safe 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 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
Cartificates/ approvals	

Certificates/ approvals

General Product Approval

For use in hazardous locations

Declaration of Conformity













Test Certificates

Marine / Shipping other

Special Test Certificate

Type Test Certificates/Test Report

Special Test Certificate



Confirmation



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,...)

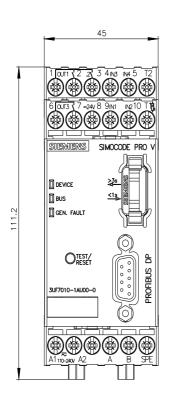
https://support.industry.siemens.com/cs/ww/en/ps/3UF7010-1AU00-0

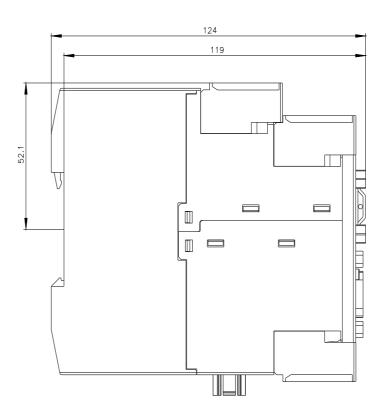
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

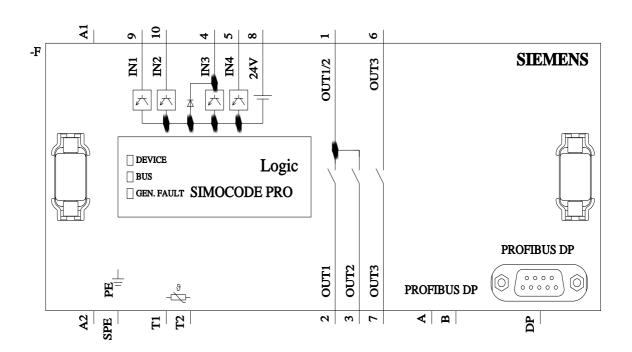
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7010-1AU00-0&lang=en

Test report No. A0258, protective separation

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







last modified: 1/12/2021 **C**