## **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	
<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
relay output	Yes
product extension	
<ul> <li>temperature monitoring module</li> </ul>	Yes
<ul> <li>current measuring module</li> </ul>	Yes
<ul> <li>current/voltage measuring module</li> </ul>	Yes
<ul> <li>fail-safe digital I/O module</li> </ul>	Yes
<ul> <li>ground-fault monitoring module</li> </ul>	Yes
<ul> <li>control unit with display</li> </ul>	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	
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 (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 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
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 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 according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3
conducted interference	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV (power ports) / 1 kV (signal ports)
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV
<ul> <li>due to high-frequency radiation according to IEC 61000-4-6</li> </ul>	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	
<ul> <li>parameterizable inputs</li> </ul>	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	
<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> </ul>	50 m
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	150 m
<ul> <li>with conductor cross-section = 2.5 mm² maximum</li> </ul>	250 m
Protective and monitoring functions	
product function	
asymmetry detection	Yes
blocking current evaluation	Yes
power factor monitoring	Yes

ground fault detection	Yes
phase failure detection	Yes
<ul> <li>phase sequence recognition</li> </ul>	Yes
<ul> <li>voltage detection</li> </ul>	Yes
<ul> <li>monitoring of number of start operations</li> </ul>	Yes
<ul> <li>overvoltage detection</li> </ul>	Yes
<ul> <li>overcurrent detection 1 phase</li> </ul>	Yes
<ul> <li>undervoltage detection</li> </ul>	Yes
<ul> <li>undercurrent detection 1 phase</li> </ul>	Yes
active power monitoring	Yes
product function	
current detection	Yes
<ul> <li>overload protection</li> </ul>	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
<ul> <li>pole-changing switch reversing circuit</li> </ul>	Yes
<ul> <li>slide control</li> </ul>	Yes
<ul><li>slide control</li><li>valve control</li></ul>	Yes Yes
valve control  Communication/ Protocol	Yes
valve control  Communication/ Protocol      protocol is supported PROFIBUS DP protocol	Yes
valve control  Communication/ Protocol      protocol is supported PROFIBUS DP protocol     protocol is supported PROFINET IO protocol	Yes
valve control  Communication/ Protocol      protocol is supported PROFIBUS DP protocol     protocol is supported PROFINET IO protocol     protocol is supported PROFIsafe protocol	Yes Yes No Yes
valve control  Communication/ Protocol      protocol is supported PROFIBUS DP protocol     protocol is supported PROFINET IO protocol     protocol is supported PROFIsafe protocol     protocol is supported Modbus RTU	Yes Yes No
valve control  Communication/ Protocol      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  Yes  No Yes No
valve control  Communication/ Protocol      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	Yes Yes No Yes No No
valve control  Communication/ Protocol      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  Yes  No Yes  No No No
valve control  Communication/ Protocol      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	Yes  Yes  No  Yes  No  No  No  No  No
valve control  Communication/ Protocol      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 No No No No
valve control  Communication/ Protocol      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	Yes  Yes  No  Yes  No  No  No  No  No  No  No  No  No
valve control  Communication/ Protocol      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	Yes No Yes No No No No No No No No No
valve control  Communication/ Protocol      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	Yes No Yes No
valve control  Communication/ Protocol      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	Yes No Yes No
valve control  Communication/ Protocol      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)	Yes No Yes No
valve control  Communication/ Protocol      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)     protocol is supported Media Redundancy Protocol (MRP)     product function is supported Device Level Ring (DLR)  number of interfaces	Yes No Yes No
valve control  Communication/ Protocol      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     according to PROFINET     according to Ethernet/IP	Yes No Yes No
valve control  Communication/ Protocol      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     according to PROFINET     according to PROFIBUS     according to Ethernet/IP	Yes No Yes No
valve control  Communication/ Protocol      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     according to PROFINET     according to PROFIBUS     according to Ethernet/IP  product function     web server	Yes No Yes No
valve control  Communication/ Protocol      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)  number of interfaces     according to PROFINET     according to Ethernet/IP  product function     web server     shared device	Yes No Yes No
valve control  Communication/ Protocol      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     according to PROFINET     according to PROFIBUS     according to Ethernet/IP  product function     web server     shared device     at the Ethernet interface Autocrossover	Yes No Yes No
valve control  Communication/ Protocol      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     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	Yes No Yes No
valve control  Communication/ Protocol      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     according to PROFINET     according to PROFIBUS     according to Ethernet/IP  product function     web server     shared device     at the Ethernet interface Autocrossover	Yes No Yes No

<ul> <li>supports PROFlenergy measured values</li> </ul>	No
supports PROFlenergy shutdown	No
transfer rate maximum	12 Mbit/s
identification & maintenance function	<u></u>
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 and control circuit	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)
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
agricining torque [iot in] with corew type terminals	7 10.0 IST III
type of connectable conductor cross-sections for PROFIBUS wire	2x 0.34 mm², AWG 22
PROFIBUS wire	2x 0.34 mm², AWG 22
PROFIBUS wire Ambient conditions	2x 0.34 mm², AWG 22
PROFIBUS wire  Ambient conditions installation altitude at height above sea level	2x 0.34 mm², AWG 22
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum	2 000 m
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum	2 000 m 3 000 m; max. +50 °C (no protective separation)
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum	2 000 m
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum  ambient temperature	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum  ambient temperature  • during operation	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum  ambient temperature	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum  ambient temperature  • during operation  • during storage  • during transport	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum  ambient temperature  • during operation  • during storage	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum  ambient temperature  • during operation • during storage • during transport  environmental category	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)  -25 +60 °C -40 +80 °C  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
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum  ambient temperature  • during operation  • during storage  • during transport  environmental category  • during operation according to IEC 60721	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)  -25 +60 °C -40 +80 °C  -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),
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum  ambient temperature  • during operation  • during storage  • during transport  environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)  -25 +60 °C -40 +80 °C  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
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum  ambient temperature  • during operation  • during storage  • during transport  environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  relative humidity  • during operation	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)  -25 +60 °C -40 +80 °C  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
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum  ambient temperature  • during operation • during storage • during transport  environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  relative humidity	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)  -25 +60 °C -40 +80 °C  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
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum  ambient temperature  • during operation  • during storage  • during transport  environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  relative humidity  • during operation	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)  -25 +60 °C -40 +80 °C  -40 +80 °C  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  5 95 %
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum  ambient temperature  • during operation  • during storage  • during transport  environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  relative humidity  • during operation  contact rating of auxiliary contacts according to UL	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)  -25 +60 °C -40 +80 °C  -40 +80 °C  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  5 95 %
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum  ambient temperature  • during operation  • during storage  • during transport  environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  relative humidity  • during operation  contact rating of auxiliary contacts according to UL  Short-circuit protection	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)  -25 +60 °C -40 +80 °C  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%), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2  5 95 % B300 / R300  Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum  ambient temperature  • during operation  • during storage  • during transport  environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  relative humidity  • during operation  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of short-circuit protection per output	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)  -25 +60 °C -40 +80 °C  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%), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2  5 95 % B300 / R300  Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum  ambient temperature  • during operation  • during storage  • during transport  environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  relative humidity  • 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	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)  -25 +60 °C -40 +80 °C -40 +80 °C  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  5 95 % 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)
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum  ambient temperature  • during operation  • during storage  • during transport  environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  relative humidity  • during operation  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of short-circuit protection per output	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)  -25 +60 °C -40 +80 °C -40 +80 °C  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  5 95 % 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,
PROFIBUS wire  Ambient conditions  installation altitude at height above sea level  • 1 maximum  • 2 maximum  • 3 maximum  ambient temperature  • during operation • during storage • during transport  environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  relative humidity • 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 according to IEC	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)  -25 +60 °C -40 +80 °C -40 +80 °C  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  5 95 % 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

product function soft starter control	Yes
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
<ul> <li>at 50 Hz rated value</li> </ul>	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
inrush current peak	
● at 240 V	15 A
duration of inrush current peak	
● at 240 V	1 ms
Certificates/ 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)

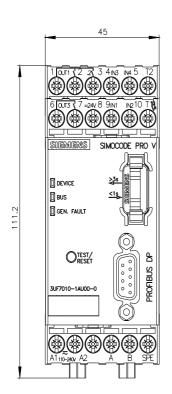
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UF7010-1AU00-0

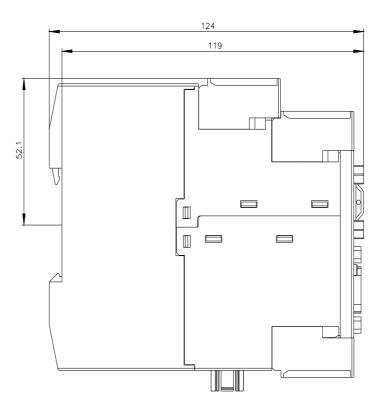
Cax online generator

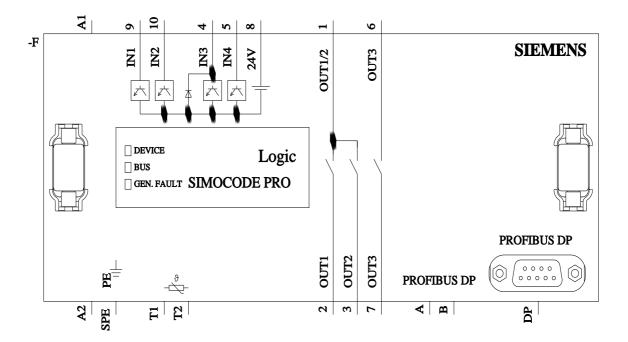
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7010-1AU00-0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) <a href="https://support.industry.siemens.com/cs/ww/en/ps/3UF7010-1AU00-0">https://support.industry.siemens.com/cs/ww/en/ps/3UF7010-1AU00-0</a>

Test report No. A0258, protective separation https://support.industry.siemens.com/cs/ww/en/view/109748152







last modified: 4/8/2022 🖸