## 3UF7010-1AU00-0AX0

**Data sheet** 



Basic unit SIMOCODE pro V PB, PROFIBUS DP interface 12 Mbps, RS485, 4I/3O freely parameterizable, US: 110...240 V AC/DC, Input for thermistor connection monostable relay outputs, with coated printed circuit boards, expandable by extension modules

product brand name	SIRIUS
design of the product	basic unit 2
product type designation	SIMOCODE pro V
eneral 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
maintenance function	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	
• temperature monitoring module	Yes
<ul> <li>current measuring module</li> </ul>	Yes
<ul> <li>current/voltage measuring module</li> </ul>	Yes
• fail-safe digital I/O module	Yes
<ul> <li>ground-fault monitoring module</li> </ul>	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	
<ul> <li>according to IEC 60068-2-27</li> </ul>	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 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	
<ul> <li>acc. to Equipment and Protective System Intended for Use in Potentially Explosive Atmospheres Regulations 2016 (S.I. 2016 No.1107)</li> </ul>	ITS21UKEX0464, ITS21UKEX0455X
lectromagnetic 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)
• due to conductor-earth surge according to IEC 61000-4-5	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
nputs/ 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 notential	4
number of digital inputs with a common reference potential	4
digital input version	
digital input version • type 1 acc. to IEC 61131	Yes
digital input version  • type 1 acc. to IEC 61131 input voltage at digital input at DC rated value	Yes 24 V
type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs	Yes 24 V 3
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	Yes 24 V 3 0
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	Yes 24 V 3 0 3
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	Yes 24 V 3 0 3 monostable
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	Yes 24 V 3 0 3 monostable Monostable
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	Yes 24 V 3 0 3 monostable
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	Yes 24 V 3 0 3 monostable Monostable 300 m
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	Yes 24 V 3 0 3 monostable Monostable 300 m
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	Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m
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 • with conductor cross-section = 2.5 mm² maximum	Yes 24 V 3 0 3 monostable Monostable 300 m
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  • with conductor cross-section = 2.5 mm² maximum	Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m
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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 • with conductor cross-section = 2.5 mm² maximum rotective and monitoring functions  product function • asymmetry detection	Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m
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 • with conductor cross-section = 2.5 mm² maximum  Protective and monitoring functions  product function • asymmetry detection • blocking current evaluation	Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m
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 • with conductor cross-section = 2.5 mm² maximum  Protective and monitoring functions  product function  • asymmetry detection • blocking current evaluation • power factor monitoring	Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m
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         • with conductor cross-section = 2.5 mm² maximum          • rotective and monitoring functions  product function         • asymmetry detection         • blocking current evaluation         • power factor monitoring         • ground fault detection	Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m  Yes Yes Yes Yes
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         • with conductor cross-section = 2.5 mm² maximum         • product function         • product function         • product function         • power factor monitoring         • ground fault detection         • phase failure detection	Yes 24 V 3 0 3 monostable Monostable 300 m  50 m 150 m 250 m  Yes Yes Yes Yes Yes Yes Yes

<ul> <li>monitoring of number of start operations</li> </ul>	
• monitoring of number of start operations	Yes
<ul> <li>overvoltage detection</li> </ul>	Yes
<ul> <li>overcurrent detection 1 phase</li> </ul>	Yes
undervoltage detection	Yes
undercurrent detection 1 phase	Yes
<ul> <li>active power monitoring</li> </ul>	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	
•	Yes
parameterizable overload relay     circuit breaker control	Yes
	Yes
direct start     reverse starting	Yes
reverse starting     stor delta circuit	
star-delta circuit	Yes
star-delta reversing circuit	Yes
Dahlander circuit	Yes
Dahlander reversing circuit	Yes
pole-changing switch circuit	Yes
pole-changing switch reversing circuit	Yes
slide control	Yes
valve control	Yes
Communication/ Protocol	
<ul> <li>protocol is supported PROFIBUS DP protocol</li> </ul>	Yes
<ul> <li>protocol is supported PROFINET IO protocol</li> </ul>	No
<ul> <li>protocol is supported PROFIsafe protocol</li> </ul>	Yes
t III t INT II DTII	
<ul> <li>protocol is supported Modbus RTU</li> </ul>	No
protocol is supported Modbus RTU     protocol is supported EtherNet/IP	No No
protocol is supported EtherNet/IP	No
<ul><li>protocol is supported EtherNet/IP</li><li>protocol is supported OPC UA Server</li></ul>	No No
<ul> <li>protocol is supported EtherNet/IP</li> <li>protocol is supported OPC UA Server</li> <li>protocol is supported LLDP</li> </ul>	No No
<ul> <li>protocol is supported EtherNet/IP</li> <li>protocol is supported OPC UA Server</li> <li>protocol is supported LLDP</li> <li>protocol is supported Address Resolution Protocol (ARP)</li> </ul>	No No No
<ul> <li>protocol is supported EtherNet/IP</li> <li>protocol is supported OPC UA Server</li> <li>protocol is supported LLDP</li> <li>protocol is supported Address Resolution Protocol (ARP)</li> <li>protocol is supported SNMP</li> </ul>	No No No No
<ul> <li>protocol is supported EtherNet/IP</li> <li>protocol is supported OPC UA Server</li> <li>protocol is supported LLDP</li> <li>protocol is supported Address Resolution Protocol (ARP)</li> <li>protocol is supported SNMP</li> <li>protocol is supported HTTPS</li> </ul>	No No No No No No
<ul> <li>protocol is supported EtherNet/IP</li> <li>protocol is supported OPC UA Server</li> <li>protocol is supported LLDP</li> <li>protocol is supported Address Resolution Protocol (ARP)</li> <li>protocol is supported SNMP</li> <li>protocol is supported HTTPS</li> <li>protocol is supported NTP</li> </ul>	No No No No No No No No
<ul> <li>protocol is supported EtherNet/IP</li> <li>protocol is supported OPC UA Server</li> <li>protocol is supported LLDP</li> <li>protocol is supported Address Resolution Protocol (ARP)</li> <li>protocol is supported SNMP</li> <li>protocol is supported HTTPS</li> <li>protocol is supported NTP</li> <li>protocol is supported Media Redundancy Protocol (MRP)</li> </ul>	No
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
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	No N
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 PROFIBUS	No N
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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	No N
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	No N
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	No N
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) 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	No N
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 NTP protocol is supported Media Redundancy Protocol (MRP) protocol 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	No N
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) 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 at the Ethernet interface Autosensing	No N
<ul> <li>protocol is supported EtherNet/IP</li> <li>protocol is supported OPC UA Server</li> <li>protocol is supported LLDP</li> <li>protocol is supported Address Resolution Protocol (ARP)</li> <li>protocol is supported SNMP</li> <li>protocol is supported HTTPS</li> <li>protocol is supported NTP</li> <li>protocol is supported Media Redundancy Protocol (MRP)</li> <li>product function is supported Device Level Ring (DLR)</li> <li>number of interfaces</li> <li>according to PROFINET</li> <li>according to PROFIBUS</li> <li>according to Ethernet/IP</li> <li>product function</li> <li>web server</li> <li>shared device</li> <li>at the Ethernet interface Autocrossover</li> <li>at the Ethernet interface Autosensing</li> <li>is supported PROFINET system redundancy (S2)</li> </ul>	No N
<ul> <li>protocol is supported EtherNet/IP</li> <li>protocol is supported OPC UA Server</li> <li>protocol is supported LLDP</li> <li>protocol is supported Address Resolution Protocol (ARP)</li> <li>protocol is supported SNMP</li> <li>protocol is supported HTTPS</li> <li>protocol is supported NTP</li> <li>protocol is supported Media Redundancy Protocol (MRP)</li> <li>product function is supported Device Level Ring (DLR)</li> <li>number of interfaces</li> <li>according to PROFINET</li> <li>according to PROFIBUS</li> <li>according to Ethernet/IP</li> <li>product function</li> <li>web server</li> <li>shared device</li> <li>at the Ethernet interface Autocrossover</li> <li>at the Ethernet interface Autosensing</li> <li>is supported PROFINET system redundancy (S2)</li> <li>supports PROFIenergy measured values</li> </ul>	No N
<ul> <li>protocol is supported EtherNet/IP</li> <li>protocol is supported OPC UA Server</li> <li>protocol is supported LLDP</li> <li>protocol is supported Address Resolution Protocol (ARP)</li> <li>protocol is supported SNMP</li> <li>protocol is supported HTTPS</li> <li>protocol is supported NTP</li> <li>protocol is supported Media Redundancy Protocol (MRP)</li> <li>product function is supported Device Level Ring (DLR)</li> <li>number of interfaces</li> <li>according to PROFINET</li> <li>according to PROFIBUS</li> <li>according to Ethernet/IP</li> <li>product function</li> <li>web server</li> <li>shared device</li> <li>at the Ethernet interface Autocrossover</li> <li>at the Ethernet interface Autosensing</li> <li>is supported PROFINET system redundancy (S2)</li> <li>supports PROFIenergy measured values</li> <li>supports PROFIenergy shutdown</li> </ul>	No N
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) 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 at the Ethernet interface Autosensing is supported PROFINET system redundancy (S2) supports PROFIenergy measured values supports PROFIenergy shutdown  transfer rate maximum	No N
<ul> <li>protocol is supported EtherNet/IP</li> <li>protocol is supported OPC UA Server</li> <li>protocol is supported LLDP</li> <li>protocol is supported Address Resolution Protocol (ARP)</li> <li>protocol is supported SNMP</li> <li>protocol is supported HTTPS</li> <li>protocol is supported NTP</li> <li>protocol is supported Media Redundancy Protocol (MRP)</li> <li>product function is supported Device Level Ring (DLR)</li> <li>number of interfaces</li> <li>according to PROFINET</li> <li>according to PROFIBUS</li> <li>according to Ethernet/IP</li> <li>product function</li> <li>web server</li> <li>shared device</li> <li>at the Ethernet interface Autocrossover</li> <li>at the Ethernet interface Autosensing</li> <li>is supported PROFINET system redundancy (S2)</li> <li>supports PROFIenergy measured values</li> <li>supports PROFIenergy shutdown</li> <li>transfer rate maximum</li> <li>identification &amp; maintenance function</li> </ul>	No N
<ul> <li>protocol is supported EtherNet/IP</li> <li>protocol is supported OPC UA Server</li> <li>protocol is supported LLDP</li> <li>protocol is supported Address Resolution Protocol (ARP)</li> <li>protocol is supported SNMP</li> <li>protocol is supported HTTPS</li> <li>protocol is supported NTP</li> <li>protocol is supported Media Redundancy Protocol (MRP)</li> <li>product function is supported Device Level Ring (DLR)</li> <li>number of interfaces</li> <li>according to PROFINET</li> <li>according to PROFIBUS</li> <li>according to Ethernet/IP</li> <li>product function</li> <li>web server</li> <li>shared device</li> <li>at the Ethernet interface Autocrossover</li> <li>at the Ethernet interface Autosensing</li> <li>is supported PROFINET system redundancy (S2)</li> <li>supports PROFlenergy measured values</li> <li>supports PROFlenergy shutdown</li> <li>transfer rate maximum</li> <li>identification &amp; maintenance function</li> <li>I&amp;M0 - device-specific information</li> </ul>	No N
<ul> <li>protocol is supported EtherNet/IP</li> <li>protocol is supported OPC UA Server</li> <li>protocol is supported LLDP</li> <li>protocol is supported Address Resolution Protocol (ARP)</li> <li>protocol is supported SNMP</li> <li>protocol is supported HTTPS</li> <li>protocol is supported NTP</li> <li>protocol is supported Media Redundancy Protocol (MRP)</li> <li>product function is supported Device Level Ring (DLR)</li> <li>number of interfaces</li> <li>according to PROFINET</li> <li>according to PROFIBUS</li> <li>according to Ethernet/IP</li> <li>product function</li> <li>web server</li> <li>shared device</li> <li>at the Ethernet interface Autocrossover</li> <li>at the Ethernet interface Autosensing</li> <li>is supported PROFINET system redundancy (S2)</li> <li>supports PROFIenergy measured values</li> <li>supports PROFIenergy shutdown</li> <li>transfer rate maximum</li> <li>identification &amp; maintenance function</li> </ul>	No N

• 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)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
<ul> <li>for AWG cables solid</li> </ul>	1x (20 12), 2x (20 14)
for 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 PROFIBUS wire	2x 0.34 mm², AWG 22
Ambient conditions	
installation altitude at height above sea level	
• 1 maximum	2 000 m
• 2 maximum	3 000 m; max. +50 °C (no protective separation)
• 3 maximum	4 000 m; max. +40 °C (no protective separation)
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +50 °C
during storage	-40 +80 °C
during transport	-40 +80 °C
environmental category	
<ul> <li>during operation according to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2
• during storage according to IEC 60721	(sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2
relative humidity	,,,
during operation	5 95 %
contact rating of auxiliary contacts according to UL	B300 / R300
Short-circuit protection	
design of short-circuit protection per output	Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature circuit-
Safety related data	breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A)
touch protection against electrical shock	finger-safe
Galvanic isolation	
(electrically) protective separation according to IEC 60947-1	All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information)
Control circuit/ Control	
product function soft starter control	Yes
type of voltage of the control supply voltage	AC/DC
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
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** 

EMC

For use in hazardous locations **Declaration of Conformity** 

Confirmation







Explosion Protection Certificate



**Declaration of Conformity** 

**Test Certificates** 

other



Type Test Certificates/Test Report

Special Test Certificate

Special Test Certificate Confirmation



Profibus

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UF7010-1AU00-0AX0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7010-1AU00-0AX0

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

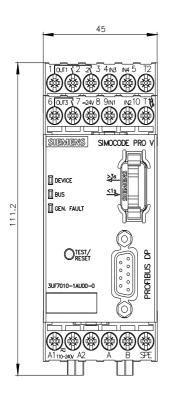
https://support.industry.siemens.com/cs/ww/en/ps/3UF7010-1AU00-0AX0

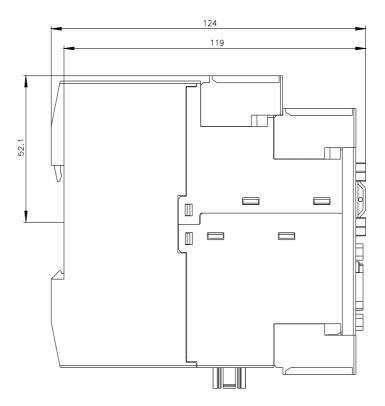
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UF7010-1AU00-0AX0&lang=en

Test report No. A0258, protective separation

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





last modified: 4/6/2023 🖸