## **SIEMENS**

product brand name

Data sheet 3UF7011-1AB00-0

SIRIUS



Basic unit SIMOCODE pro V PN, Ethernet/PROFINET IO, PN system redundancy, OPC UA server, Web server, transmission rate 100 Mbps, 2 x bus connection via RJ45, 4l/3O freely parameterizable, Us: 24 V 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 3
product type designation	SIMOCODE pro V PN
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
maintenance function	Yes
product component	
<ul> <li>input for thermistor connection</li> </ul>	Yes
<ul> <li>digital input</li> </ul>	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
fail-safe digital I/O module	Yes
<ul> <li>ground-fault monitoring module</li> </ul>	Yes
<ul> <li>control unit with display</li> </ul>	Yes
<ul> <li>control unit</li> </ul>	Yes
analog I/O module	Yes
consumed active power	3.9 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
● 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	0.02 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)	01.03.2017 00:00:00
certificate of suitability	
• IECEx	Yes; IECEx PTB 18.0004X
<ul> <li>according to ATEX directive 2014/34/EU</li> </ul>	BVS 06 ATEX F001, PTB 18 ATEX 5003 X
explosion device group and category according to ATEX directive 2014/34/EU	II (2) G, II (2 ) D, I (M2) / I (1G/M2), II (1/2) G, II (1G/2D)
Electromagnetic compatibility	
EMC emitted interference acc. to IEC 60947-1	class A
EMC immunity acc. to IEC 60947-1	corresponds to degree of severity 3
conducted interference	
• due to burst acc. to IEC 61000-4-4	2 kV (power ports) / 1 kV (signal ports)
	2 kV
<ul> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	1 kV
<ul> <li>due to high-frequency radiation acc. to IEC 61000- 4-6</li> </ul>	10 V
	40.\//
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
conducted HF interference emissions acc. to CISPR11	corresponds to degree of severity A
field-bound HF interference emission acc. to CISPR11	corresponds to degree of severity A
Inputs/ Outputs	
product function	
<ul> <li>parameterizable inputs</li> </ul>	Yes
• parameterizable cutoute	
parameterizable outputs	Yes
parameterizable outputs     number of inputs	Yes 4
· · · · · · · · · · · · · · · · · · ·	
number of inputs	4
number of inputs  • for thermistor connection	4 1
number of inputs  • for thermistor connection number of digital inputs with a common reference potential	4 1 4
number of inputs  • for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131	4 1 4 Yes
number of inputs  ● for thermistor connection  number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value	4 1 4 Yes 24 V
number of inputs  • for thermistor connection  number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs	4 1 4 Yes 24 V 3
number of inputs  • for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of semiconductor outputs number of outputs as contact-affected switching element	4 1 4 Yes 24 V 3
number of inputs  ● for thermistor connection  number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs  number of semiconductor outputs  number of outputs as contact-affected switching element switching behavior	4 1 4 Yes 24 V 3 0
number of inputs  • for thermistor connection  number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs  number of semiconductor outputs  number of outputs as contact-affected switching element switching behavior type of relay outputs	4 1 4 Yes 24 V 3 0 3 monostable Monostable
number of inputs  • for thermistor connection  number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value  number of outputs  number of semiconductor outputs  number of outputs as contact-affected switching element  switching behavior  type of relay outputs  wire length for digital signals maximum	4 1 4 Yes 24 V 3 0 3 monostable
number of inputs  • for thermistor connection  number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs  number of semiconductor outputs  number of outputs as contact-affected switching element  switching behavior  type of relay outputs  wire length for digital signals maximum  wire length for thermistor connection	4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
number of inputs  • for thermistor connection  number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value  number of outputs  number of semiconductor outputs  number of outputs as contact-affected switching element  switching behavior  type of relay outputs  wire length for digital signals maximum  wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum	4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
number of inputs  • for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of semiconductor outputs number of outputs as contact-affected switching element switching behavior type of relay outputs wire length for digital signals maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum	4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m  50 m 150 m
number of inputs  • for thermistor connection  number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value  number of outputs  number of semiconductor outputs  number of outputs as contact-affected switching element  switching behavior  type of relay outputs  wire length for digital signals maximum  wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum	4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
number of inputs  • for thermistor connection  number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value  number of outputs  number of semiconductor outputs  number of outputs as contact-affected switching element  switching behavior  type of relay outputs  wire length for digital signals maximum  wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum	4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m  50 m 150 m
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number of inputs     • for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of semiconductor outputs number of outputs as contact-affected switching element switching behavior type of relay outputs wire length for digital signals maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum Protective and monitoring functions  product function • asymmetry detection • blocking current evaluation • power factor monitoring	4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m
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<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
undervoltage detection	Yes
undercurrent detection 1 phase	Yes
active power monitoring	Yes
product function	
•	Yes
current detection	
overload protection	Yes
evaluation of thermistor motor protection	Yes
total cold resistance number of sensors in series	1.5 kΩ
maximum	0.400 0.000 0
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
<ul> <li>Dahlander reversing circuit</li> </ul>	Yes
<ul> <li>pole-changing switch circuit</li> </ul>	Yes
<ul> <li>pole-changing switch reversing circuit</li> </ul>	Yes
<ul> <li>slide control</li> </ul>	Yes
<ul> <li>valve control</li> </ul>	Yes
Communication/ Protocol	
- protocol is supported DDOFIDUS DD protocol	No
protocol is supported PROFIBUS DP protocol	No
protocol is supported PROFINET IO protocol	Yes
<ul><li>protocol is supported PROFINET IO protocol</li><li>protocol is supported PROFIsafe protocol</li></ul>	Yes Yes
<ul> <li>protocol is supported PROFINET IO protocol</li> <li>protocol is supported PROFIsafe protocol</li> <li>protocol is supported Modbus RTU</li> </ul>	Yes
<ul> <li>protocol is supported PROFINET IO protocol</li> <li>protocol is supported PROFIsafe protocol</li> <li>protocol is supported Modbus RTU</li> <li>protocol is supported EtherNet/IP</li> </ul>	Yes Yes
<ul> <li>protocol is supported PROFINET IO protocol</li> <li>protocol is supported PROFIsafe protocol</li> <li>protocol is supported Modbus RTU</li> </ul>	Yes Yes No
<ul> <li>protocol is supported PROFINET IO protocol</li> <li>protocol is supported PROFIsafe protocol</li> <li>protocol is supported Modbus RTU</li> <li>protocol is supported EtherNet/IP</li> </ul>	Yes Yes No No
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<ul> <li>protocol is supported PROFINET IO protocol</li> <li>protocol is supported PROFIsafe protocol</li> <li>protocol is supported Modbus RTU</li> <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</li> </ul>	Yes Yes No No Yes Yes Yes
<ul> <li>protocol is supported PROFINET IO protocol</li> <li>protocol is supported PROFIsafe protocol</li> <li>protocol is supported Modbus RTU</li> <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>	Yes Yes No No Yes Yes Yes Yes
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<ul> <li>protocol is supported PROFINET IO protocol</li> <li>protocol is supported PROFIsafe protocol</li> <li>protocol is supported Modbus RTU</li> <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</li> </ul>	Yes Yes No No No Yes Yes Yes Yes Yes Yes
<ul> <li>protocol is supported PROFINET IO protocol</li> <li>protocol is supported PROFIsafe protocol</li> <li>protocol is supported Modbus RTU</li> <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> </ul>	Yes Yes No No No Yes Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>protocol is supported PROFINET IO protocol</li> <li>protocol is supported PROFIsafe protocol</li> <li>protocol is supported Modbus RTU</li> <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> </ul>	Yes Yes No No No Yes
<ul> <li>protocol is supported PROFINET IO protocol</li> <li>protocol is supported PROFIsafe protocol</li> <li>protocol is supported Modbus RTU</li> <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> </ul> number of interfaces <ul> <li>acc. to PROFINET</li> </ul>	Yes Yes No No No Yes Yes Yes Yes Yes Yes Yes Yes You Yes Yes Yes Yes Yes
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	Yes Yes No No No Yes Yes Yes Yes Yes Yes Yes You Yes Yes You Yes You Yes Yes You Yes Y
<ul> <li>protocol is supported PROFINET IO protocol</li> <li>protocol is supported PROFIsafe protocol</li> <li>protocol is supported Modbus RTU</li> <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> </ul> number of interfaces <ul> <li>acc. to PROFINET</li> <li>acc. to PROFIBUS</li> <li>according to Ethernet/IP</li> </ul>	Yes Yes No No No Yes Yes Yes Yes Yes Yes Yes Yes You Yes Yes Yes Yes Yes Yes
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	Yes Yes No No No Yes Yes Yes Yes Yes Yes Yes You O  O
<ul> <li>protocol is supported PROFINET IO protocol</li> <li>protocol is supported PROFIsafe protocol</li> <li>protocol is supported Modbus RTU</li> <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 Media Redundancy Protocol (MRP)</li> <li>product function is supported Device Level Ring (DLR)</li> <li>number of interfaces</li> <li>acc. to PROFINET</li> <li>acc. to PROFIBUS</li> <li>according to Ethernet/IP</li> <li>product function</li> <li>web server</li> </ul>	Yes Yes No No No Yes Yes Yes Yes Yes Yes Yes You Yes
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	Yes Yes No No No Yes Yes Yes Yes Yes Yes Yes You O  O
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<ul> <li>protocol is supported PROFINET IO protocol</li> <li>protocol is supported PROFIsafe protocol</li> <li>protocol is supported Modbus RTU</li> <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> </ul> number of interfaces <ul> <li>acc. to PROFINET</li> <li>acc. to PROFIBUS</li> <li>according to Ethernet/IP</li> </ul> product function <ul> <li>web server</li> <li>shared device</li> </ul>	Yes Yes No No No Yes Yes Yes Yes Yes Yes Yes You Yes Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>protocol is supported PROFINET IO protocol</li> <li>protocol is supported PROFIsafe protocol</li> <li>protocol is supported Modbus RTU</li> <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> </ul> number of interfaces <ul> <li>acc. to PROFINET</li> <li>acc. to PROFIBUS</li> <li>according to Ethernet/IP</li> </ul> product function <ul> <li>web server</li> <li>shared device</li> <li>at the Ethernet interface Autocrossover</li> <li>at the Ethernet interface Autonegotiation</li> </ul>	Yes Yes No No No Yes
<ul> <li>protocol is supported PROFINET IO protocol</li> <li>protocol is supported PROFIsafe protocol</li> <li>protocol is supported Modbus RTU</li> <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>acc. to PROFINET</li> <li>acc. 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>Media Redundancy Protocol for Planned Duplication</li> </ul>	Yes Yes No No No Yes
<ul> <li>protocol is supported PROFINET IO protocol</li> <li>protocol is supported PROFIsafe protocol</li> <li>protocol is supported Modbus RTU</li> <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> </ul> number of interfaces <ul> <li>acc. to PROFIBUS</li> <li>according to Ethernet/IP</li> </ul> product function <ul> <li>web server</li> <li>shared device</li> <li>at the Ethernet interface Autocrossover</li> <li>at the Ethernet interface Autosensing</li> <li>Media Redundancy Protocol for Planned Duplication (MRPD)</li> </ul>	Yes Yes No No No Yes
<ul> <li>protocol is supported PROFINET IO protocol</li> <li>protocol is supported PROFIsafe protocol</li> <li>protocol is supported Modbus RTU</li> <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>acc. to PROFINET</li> <li>acc. 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>Media Redundancy Protocol for Planned Duplication</li> </ul>	Yes Yes No No No Yes

<ul> <li>supports PROFlenergy shutdown</li> </ul>	Yes
transfer rate maximum	100 Mbit/s
PROFINET conformity class	B
identification & maintenance function	
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	2x RJ45
interface	ZATOTO
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
<ul><li>bottom</li></ul>	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)
at AWG cables solid	1x (20 12), 2x (20 14)
<ul> <li>at AWG cables stranded</li> </ul>	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
Ambient conditions	
installation altitude at height above sea level	
• 1 maximum	2 000 m
• 2 maximum	3 000 m; max. +50 °C (no protective separation)
• 3 maximum	4 000 m; max. +40 °C (no protective separation)
ambient temperature	
during operation	-25 +60 °C
during storage	-40 +80 °C
during transport	-40 +80 °C
environmental category	
• during operation acc. to IEC 60721	3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
• during storage acc. to IEC 60721	1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4
<ul> <li>during transport acc. 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-breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A)
Safety related data	
touch protection against electrical shock	finger-safe
Galvanic isolation	
(electrically) protective separation acc. to IEC 60947-1	All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information)
Control circuit/ Control	
product function soft starter control	Yes
type of voltage of the control supply voltage	DC

control supply voltage at DC	
rated value	24 V
control supply voltage 1 at DC rated value	24 V
operating range factor control supply voltage rated value at DC	
• initial value	0.85
• full-scale value	1.2

Certificates/ approvals

**General Product Approval** 

**EMC** 

For use in hazardous locations













For use in hazardous locations

Declaration of Conformity

**Test Certificates** 









Special Test Certificate

Type Test Certificates/Test Report

**Test Certificates** 

Marine / Shipping

other

Special Test Certificate









Confirmation

other

PROFINET-Certification



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=3UF7011-1AB00-0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7011-1AB00-0

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

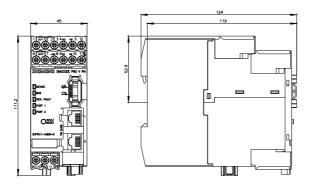
https://support.industry.siemens.com/cs/ww/en/ps/3UF7011-1AB00-0

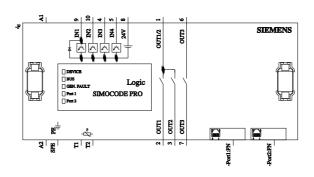
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UF7011-1AB00-0\&lang=en}$ 

Test report No. A0258, protective separation

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





last modified: 12/23/2020 ☑