SIEMENS

Data sheet 3UF7013-1AB00-0



Basic unit SIMOCODE pro V EIP, EtherNet/IP, medium redundancy DLR, Web server, transmission rate 100 Mbps, 2 x bus connection via RJ45, 4l/30 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 EIP
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
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	
• according to IEC 60068-2-27	15g / 11 ms
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	0.02 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)	03/01/2017
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7
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
 acc. to Equipment and Protective System Intended for Use in Potentially Explosive Atmospheres Regulations 2016 (S.I. 2016 No.1107) 	ITS21UKEX0464, ITS21UKEX0455X
according to UKCA	ITS21UKEX0464, ITS21UKEX0455X
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	
 due to burst according to IEC 61000-4-4 	2 kV (power ports) / 1 kV (signal ports)
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV
 due to high-frequency radiation according to IEC 61000- 	10 V
4-6	
4-6 field-based interference according to IEC 61000-4-3	10 V/m
	10 V/m 6 kV contact discharge / 8 kV air discharge
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11	
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to	6 kV contact discharge / 8 kV air discharge
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11	6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A
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field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function • parameterizable inputs • parameterizable outputs	6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A corresponds to degree of severity A Yes Yes
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field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according 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
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field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according 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 300 m 50 m
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 power factor monitoring 	Yes
 ground fault detection 	Yes
 phase failure detection 	Yes
 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 reversing circuit	Yes
pole-changing switch circuit	Yes
pole-changing switch reversing circuit	Yes
	Yes
 slide control 	
slide control valve control	
valve control	Yes
valve control Communication/ Protocol	
valve control Communication/ Protocol protocol is supported	Yes
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol	Yes No
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol	Yes No No
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol	No No No
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU	No No No No
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP	Yes No No No No No Yes
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP OPC UA Server	No No No No Yes No
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP	No No No No No Yes No Yes
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP)	No No No No No Yes No Yes Yes
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP	No No No No Yes No Yes Yes Yes Yes
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS	No No No No No Yes Yes Yes Yes Yes You
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP	No No No No No Yes Yes Yes Yes Yes Yes Yes
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP)	No No No No No Yes Yes Yes Yes Yes You
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces	No No No No No Yes No Yes No Yes Yes Yes Yes No Yes No
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces according to PROFINET	No No No No Yes No Yes No Yes Yes Yes No Yes No Yes No
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFISafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces according to PROFIBUS	No No No No Yes No Yes Yes No Yes No Yes No O O O
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFISafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces according to PROFIBUS according to Ethernet/IP	No No No No Yes No Yes Yes Yes No Yes No Yes No O
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces according to PROFINET according to Ethernet/IP product function	No No No Yes No Yes Yes Yes No Yes No 0 0 2
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces according to PROFINET according to Ethernet/IP product function web server	No No No No No Yes No Yes Yes Yes Yes No Yes No Yes No Yes No Yes No Tes
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces according to PROFINET according to Ethernet/IP product function web server shared device	No No No Yes No Yes Yes No Yes No 2 Yes No
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) 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 No No Yes No Yes Yes No Yes No 2 Yes No Yes No Yes No Yes No Yes
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFISATE protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) number of interfaces 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 No Yes No Yes Yes No Yes No 2 Yes No Yes Yes Yes Yes Yes Yes Yes Yes
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFIsafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) 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 Autosensing	Yes No No Yes No Yes Yes No O 0 0 2 Yes
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFISATE protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) 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 Autosensing is supported Device Level Ring (DLR)	No No No Yes No Yes Yes No 0 0 0 2 Yes Yes
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFISafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) 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 Autosensing is supported Device Level Ring (DLR) is supported PROFINET system redundancy (S2)	No No No Yes No Yes Yes No Yes No Yes No Yes Yes Yes Yes Yes Yes Yes No
valve control Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET IO protocol PROFISafe protocol Modbus RTU EtherNet/IP OPC UA Server LLDP Address Resolution Protocol (ARP) SNMP HTTPS NTP Media Redundancy Protocol (MRP) 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 Autosensing is supported Device Level Ring (DLR)	No No No Yes No Yes Yes No 0 0 0 2 Yes Yes

transfer rate maximum	100 Mbit/s
identification & maintenance function	
• I&M0 - device-specific information	No
• I&M1 - higher level designation/location designation	No
• I&M2 - installation date	No
• I&M3 - comment	No
type of electrical connection of the communication interface	2x RJ45
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)
 for AWG cables solid 	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
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 according 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 according to IEC 60721	1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4
 during transport according to IEC 60721 	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)
Electrical Safety	
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	ossertad (min see tardier milotination)
	Voc
product function soft starter control	Yes
type of voltage of the control supply voltage	DC
control supply voltage at DC	041/
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
inrush current peak	
• at 24 V	17 A
duration of inrush current peak	
• at 24 V	1.1 ms

Approvals Certificates

General Product Approval







Confirmation





EMC

For use in hazardous locations











Explosion Protection Certificate

Test Certificates

Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping

other



Confirmation

Miscellaneous

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=3UF7013-1AB00-0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7013-1AB00-0

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

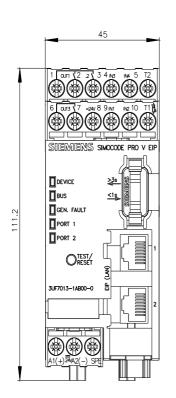
https://support.industry.siemens.com/cs/ww/en/ps/3UF7013-1AB00-0

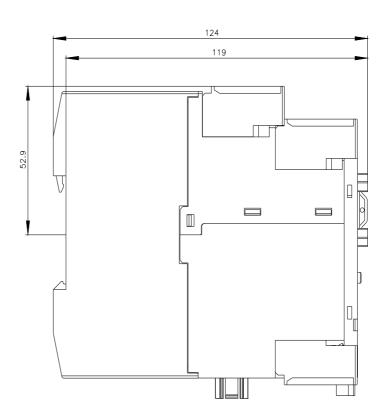
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

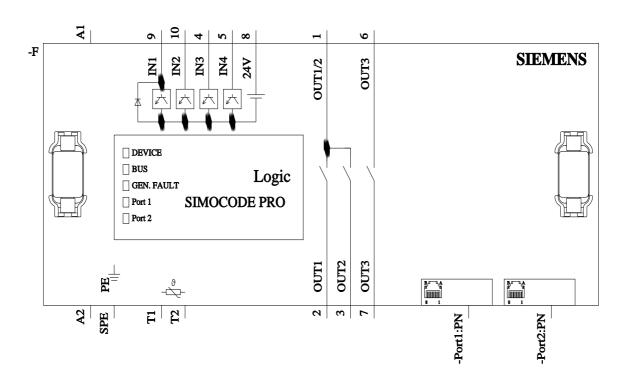
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7013-1AB00-0&lang=en

Test report No. A0258, protective separation

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







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