SIEMENS

Data sheet 3UF7012-1AB00-0



Basic unit SIMOCODE pro V MR, MODBUS RTU interface 57.6 Kbps, RS 485, 4I/3O freely parameterizable, Us: 24 V DC, input for thermistor connection Monostable relay outputs, expandable by extension modules

product brand name product designation design of the product product type designation SIRIUS

Motor management system

basic unit 2

SIMOCODE pro V MR

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	2.6 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 (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	
 according to ATEX directive 2014/34/EU 	BVS 06 ATEX F001
acc. to Equipment and Protective System Intended	ITS21UKEX0464, ITS21UKEX0455X
for Use in Potentially Explosive Atmospheres	THE TOTAL TO T, THE LIGHT TOOK
Regulations 2016 (S.I. 2016 No.1107)	
 according to UKCA 	ITS21UKEX0464, ITS21UKEX0455X
explosion device group and category according to ATEX	II (2) G, II (2) D, I (M2)
directive 2014/34/EU	
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 	2 kV
61000-4-5	
due to conductor-conductor surge according to IEC	1 kV
61000-4-5	
 due to high-frequency radiation according to IEC 61000-4-6 	10 V
	10.\//
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 UE interference emissions according to	corresponds to degree of soverity A
conducted HF interference emissions according to CISPR11	corresponds to degree of severity A
CISPR11	
•	corresponds to degree of severity A corresponds to degree of severity A
CISPR11 field-bound HF interference emission according to	
CISPR11 field-bound HF interference emission according to CISPR11	
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs	
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function • parameterizable inputs	corresponds to degree of severity A Yes
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function • parameterizable inputs • parameterizable outputs	corresponds to degree of severity A Yes Yes
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A Yes Yes 4
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A Yes Yes 4 1
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function • parameterizable inputs • parameterizable outputs number of inputs • for thermistor connection number of digital inputs with a common reference potential	corresponds to degree of severity A Yes Yes 4 1
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function parameterizable inputs parameterizable outputs number of inputs for thermistor connection number of digital inputs with a common reference potential digital input version	Corresponds to degree of severity A Yes Yes 4 1 4
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function parameterizable inputs parameterizable outputs number of inputs for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131	Yes Yes 4 1 4 Yes
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	Yes Yes 4 1 4 Yes 24 V
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	Yes Yes 4 1 4 Yes 24 V 3
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	Yes Yes 4 1 4 Yes 24 V 3 0
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	Yes Yes 4 1 4 Yes 24 V 3 0
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	Yes Yes 4 1 4 Yes 24 V 3 0 3
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable Monostable 300 m 50 m 150 m
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function parameterizable inputs product function parameterizable outputs 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 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 Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable Monostable 300 m 50 m 150 m
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function parameterizable inputs product function parameterizable outputs 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 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	Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable Monostable 300 m 50 m 150 m
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function • parameterizable inputs • parameterizable outputs 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	corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m
CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	Corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m

	V
phase sequence recognition	Yes
voltage detection	Yes
 monitoring of number of start operations 	Yes
overvoltage detection	Yes
overcurrent detection 1 phase window of the series.	Yes
undersystem detection	Yes
undercurrent detection 1 phase active payor requirer.	Yes
active power monitoring	Yes
product function	Vac
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	- 500 III + 500 <u>- 1</u>
product function	
•	Yes
 parameterizable overload relay circuit breaker control 	Yes
direct start	Yes
reverse starting	Yes
star-delta circuit	Yes
star-delta circuit star-delta reversing circuit	Yes
Dahlander circuit	Yes
Dahlander circuit Dahlander reversing circuit	Yes
pole-changing switch circuit	Yes
pole-changing switch reversing circuit	Yes
slide control	Yes
valve control	Yes
Communication/ Protocol	
protocol is supported PROFIBUS DP protocol protocol is supported PROFIBUS TO protocol protocol is supported PRO	No No
protocol is supported PROFINET IO protocol	No No
protocol is supported PROFIsafe protocol	No
	Yes
protocol is supported Modbus RTU	N.
 protocol is supported EtherNet/IP 	No No
protocol is supported EtherNet/IPprotocol is supported OPC UA Server	No
 protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP 	No No
 protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP protocol is supported Address Resolution Protocol 	No
 protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP protocol is supported Address Resolution Protocol (ARP) 	No No 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 	No 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 	No No 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 	No No No 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 	No No No No 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 	No No No No 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) 	No No No No No No No No 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 O
 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 	No No No No No No No No O O
 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 	No No No No No No No O O O
 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 according to Modbus RTU 	No No No No No No No No O O
 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 Modbus RTU product function 	No No No No No No No O 0 0 1
 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 Modbus RTU 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 according to Modbus RTU 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) product function is supported Device Level Ring (DLR) number of interfaces according to PROFINET according to PROFIBUS according to Ethernet/IP according to Modbus RTU product function web server shared device at the Ethernet interface Autocrossover 	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 Modbus RTU product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing is supported PROFINET system redundancy (S2) 	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 Modbus RTU product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing is supported PROFINET system redundancy (S2) supports PROFIenergy measured values 	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 Modbus RTU product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing is supported PROFINET system redundancy (S2) supports PROFIenergy shutdown 	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 Modbus RTU product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing is supported PROFINET system redundancy (S2) supports PROFIenergy measured values 	No N

 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	9-pin D-sub socket (57.6 Kbit) / screw terminal (57.6 Kbit)
interface	o pin B out desire (or le risit) / out on terminal (or le risit)
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting
height	111 mm
width	45 mm
	124 mm
depth	124 111111
required spacing	40 mm
top bottom	40 mm
• left	0 mm
• right	0 mm
Connections/ Terminals	
product component removable terminal for auxiliary	Yes
and control circuit	
type of connectable conductor cross-sections	1v (0.5 4.0 mm²) 2v (0.5 2.5 mm²)
solid finally attempted with core and processing.	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
finely stranded with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
at AWG cables solid	1x (20 12), 2x (20 14)
at AWG cables stranded	1x (20 14), 2x (20 16)
tightening torque with screw-type terminals	0.8 1.2 N·m
tightening torque [lbf·in] with screw-type terminals	7 10.3 lbf·in
type of connectable conductor cross-sections for 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	4 000 m, max. 140 0 (no protective departation)
during operation	-25 +60 °C
during operation during storage	-40 +80 °C
during storage during transport	-40 +80 °C
environmental category	40 100 0
during operation according to IEC 60721	3K6 (no formation of ice, no condensation, relative humidity 10 95%),
during operation according to IEC 00721	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),
3 3 3	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
and the second of the second o	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	
	All circuits with protective consention (double consent to the
(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	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	
operating range factor control supply voltage rated value at DC	

initial value

• full-scale value

inrush current peak

• at 24 V

duration of inrush current peak

at 24 V

0.8 1.2

11 A

1.1 ms

Certificates/ approvals

General Product Approval

EMC

For use in hazardous locations



Confirmation









For use in hazardous locations

Declaration of Conformity

Test Certificates





ate







Type Test Certificates/Test Report

Test Certificates

Marine / Shipping

Special Test Certific-**Special Test Certific**ate









other

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=3UF7012-1AB00-0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7012-1AB00-0

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

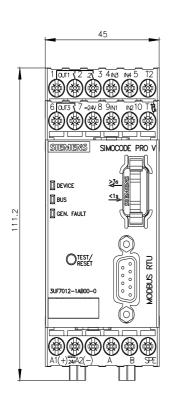
https://support.industry.siemens.com/cs/ww/en/ps/3UF7012-1AB00-0

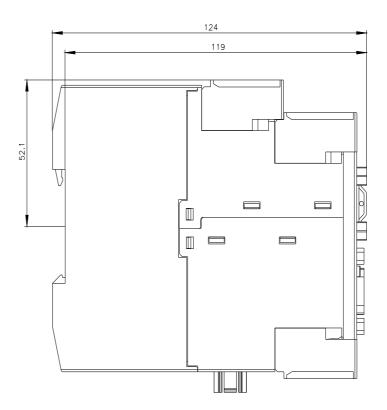
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

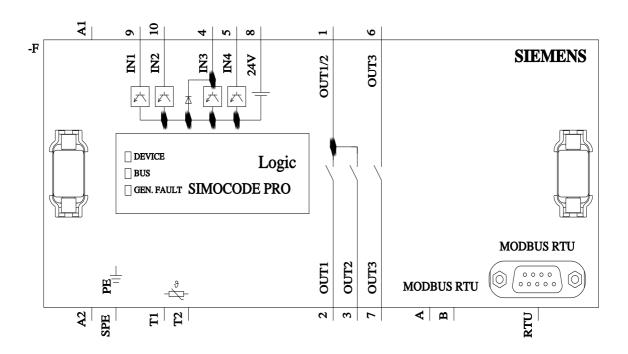
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7012-1AB00-0&lang=en

Test report No. A0258, protective separation

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







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