## **SIEMENS**

Data sheet 3UF7012-1AU00-0



Basic unit SIMOCODE pro V MR, MODBUS RTU interface 57.6 Kbps, RS 485, 4I/3O freely parameterizable, Us: 110...240 V AC/DC, input for thermistor connection Monostable relay outputs, expandable by extension modules

product brand name	SIRIUS
product designation	Motor management system
design of the product	basic unit 2
product type designation	SIMOCODE pro V MR
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
digital input	Yes
<ul> <li>input for analog temperature sensors</li> </ul>	No
<ul> <li>input for ground fault detection</li> </ul>	No
relay output	Yes
product extension	
<ul> <li>temperature monitoring module</li> </ul>	Yes
<ul> <li>current measuring module</li> </ul>	Yes
<ul> <li>current/voltage measuring module</li> </ul>	Yes
• 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
• control unit	Yes
analog I/O module	Yes
apparent power consumption	8.3 VA
consumed active power	3.6 W
insulation voltage with degree of pollution 3 at AC rated value	300 V
surge voltage resistance rated value	4 000 V
protection class IP	IP20
shock resistance	
• according to IEC 60068-2-27	15g / 11 ms
vibration resistance	1-6 Hz / 15 mm; 6-500 Hz / 2 g
switching capacity current of the NO contacts of the relay outputs at AC-15	
• at 24 V	6 A
• at 120 V	6 A

a at 220 V	2.0
at 230 V  Switching capacity current of the NO contacts of the relay.	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
· · · · · · · · · · · · · · · · · · ·	100 000
electrical endurance (operating cycles) typical	
buffering time in the event of power failure	0 s F
reference code according to IEC 81346-2	r
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>according to ATEX directive 2014/34/EU</li> </ul>	BVS 06 ATEX F001
<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
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	
<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
due to conductor-conductor surge according to IEC	1 kV
61000-4-5	
<ul> <li>due to high-frequency radiation according to IEC 61000- 4-6</li> </ul>	10 V
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
conducted HF interference emissions according to CISPR11	corresponds to degree of severity A
field-bound HF interference emission according to CISPR11	corresponds to degree of severity A
Inputs/ Outputs	
product function	
parameterizable inputs	Yes
parameterizable outputs	Yes
number of inputs	4
for thermistor connection	1
number of digital inputs with a common reference potential	4
digital input version	
• type 1 acc. to IEC 61131	Yes
input voltage at digital input at DC rated value	24 V
number of outputs	3
number of semiconductor outputs	0
number of outputs as contact-affected switching element	3
switching behavior	monostable
type of relay outputs	Monostable
wire length for digital signals maximum	300 m
wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> </ul>	50 m
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	150 m
• with conductor cross-section = 2.5 mm² maximum	250 m
Protective and monitoring functions	
product function	
asymmetry detection	Yes
blocking current evaluation	Yes
	Yes
power factor monitoring	

e ground fault detection phase failure detection phase sequence recognition voltage detection voltage detection voltage detection ves overvoltage detection ves overvoltage detection ves undervoltage detection ves
<ul> <li>phase sequence recognition</li> <li>voltage detection</li> <li>monitoring of number of start operations</li> <li>overvoltage detection</li> <li>overcourrent detection 1 phase</li> <li>undervoltage detection</li> <li>yes</li> <li>undercourrent detection 1 phase</li> <li>yes</li> <li>active power monitoring</li> <li>current detection</li> <li>current detection</li> <li>ves</li> <li>active power monitoring</li> <li>yes</li> <li>overload protection</li> <li>evaluation of thermistor motor protection</li> <li>total cold resistance number of sensors in series maximum</li> <li>of the short-circuit control</li> <li>of the short-circuit control</li> <li>parameterizable overload relay</li> <li>circuit breaker control</li> <li>direct start</li> <li>reverse starting</li> <li>evaluation of theresistor</li> <li>2 (yes</li> <li>circuit breaker control</li> <li>direct start</li> <li>reverse starting</li> <li>star-delta circuit</li> <li>yes</li> <li>star-delta reversing circuit</li> <li>palander circuit</li> <li>pele-changing switch circuit</li> <li>Yes</li> <li>pole-changing switch circuit</li> <li>Yes</li> </ul>
• voltage detection • monitoring of number of start operations • monitoring of number of start operations • overvoltage detection • overcurrent detection 1 phase • undervoltage detection • undercurrent detection 1 phase • active power monitoring • current detection • current detection • current detection • overload protection • overload protection • evaluation of thermistor motor protection  total cold resistance number of sensors in series maximum  response value of thermoresistor • of the short-circuit control  release value of thermoresistor  1 500 1 650 Ω  Motor control functions  product function  • parameterizable overload relay • circuit breaker control • direct start • reverse starting • star-delta circuit • star-delta circuit • Dahlander circuit • pole-changing switch circuit
<ul> <li>monitoring of number of start operations</li> <li>overvoltage detection</li> <li>yes</li> <li>overcurrent detection 1 phase</li> <li>yes</li> <li>undervoltage detection</li> <li>Yes</li> <li>undercurrent detection 1 phase</li> <li>active power monitoring</li> <li>yes</li> <li>active power monitoring</li> <li>current detection</li> <li>current detection</li> <li>current detection</li> <li>everload protection</li> <li>everload protection</li> <li>yes</li> <li>evaluation of thermistor motor protection</li> <li>yes</li> <li>total cold resistance number of sensors in series maximum</li> <li>1.5 kΩ</li> <li>response value of thermoresistor</li> <li>3 400 3 800 Ω</li> <li>of the short-circuit control</li> <li>g Ω</li> <li>release value of thermoresistor</li> <li>1500 1 650 Ω</li> <li>Motor control functions</li> <li>product function</li> <li>product function</li> <li>γes</li> <li>circuit breaker control</li> <li>direct start</li> <li>everses starting</li> <li>everses starting</li> <li>estar-delta circuit</li> <li>star-delta reversing circuit</li> <li>yes</li> <li>star-delta reversing circuit</li> <li>yes</li> <li>Dahlander reversing circuit</li> <li>Yes</li> <li>Dahlander reversing circuit</li> <li>yes</li> <li>pole-changing switch circuit</li> <li>yes</li> </ul>
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<ul> <li>undervoltage detection</li> <li>undercurrent detection 1 phase</li> <li>active power monitoring</li> <li>Yes</li> <li>active power monitoring</li> <li>Yes</li> <li>product function</li> <li>current detection</li> <li>ves</li> <li>overload protection</li> <li>Yes</li> <li>evaluation of thermistor motor protection</li> <li>response value of thermoresistor</li> <li>of the short-circuit control</li> <li>of the short-circuit control</li> <li>quantification</li> <li>product functions</li> </ul> Product function <ul> <li>product function</li> <li>parameterizable overload relay</li> <li>circuit breaker control</li> <li>direct start</li> <li>reverse starting</li> <li>estar-delta circuit</li> <li>yes</li> <li>star-delta circuit</li> <li>yes</li> <li>Dahlander circuit</li> <li>pallander reversing circuit</li> <li>Yes</li> <li>pole-changing switch circuit</li> <li>Yes</li> </ul>
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• active power monitoring  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
product function  current detection  coverload protection  evaluation of thermistor motor protection  total cold resistance number of sensors in series maximum  response value of thermoresistor  of the short-circuit control  of the short-circuit control  release value of thermoresistor  1 500 1 650 Ω  Motor control functions  product function  parameterizable overload relay  circuit breaker control  direct start  reverse starting  star-delta circuit  yes  ballander circuit  Pas  Dahlander reversing circuit  yes  Dahlander reversing circuit  yes  pole-changing switch circuit  Yes
<ul> <li>current detection</li> <li>overload protection</li> <li>evaluation of thermistor motor protection</li> <li>total cold resistance number of sensors in series maximum</li> <li>response value of thermoresistor</li> <li>of the short-circuit control</li> <li>9 Ω</li> <li>release value of thermoresistor</li> <li>1500 1650 Ω</li> <li>Motor control functions</li> <li>product function</li> <li>parameterizable overload relay</li> <li>circuit breaker control</li> <li>direct start</li> <li>reverse starting</li> <li>star-delta circuit</li> <li>star-delta reversing circuit</li> <li>Dahlander circuit</li> <li>Dahlander reversing circuit</li> <li>pole-changing switch circuit</li> <li>Yes</li> </ul>
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response value of thermoresistor $34003800\Omega$ • of the short-circuit control $9\Omega$ release value of thermoresistor $15001650\Omega$ 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
of the short-circuit control     release value of thermoresistor     1 500 1 650 Ω      Motor control functions  product function     oparameterizable overload relay     ocircuit breaker control     direct start     ves     reverse starting     star-delta circuit     star-delta reversing circuit     Dahlander circuit     Dahlander reversing circuit     pole-changing switch circuit     ves     pole-changing switch circuit     yes
release value of thermoresistor  Motor control functions  product function
product function  • parameterizable overload relay • circuit breaker control • direct start • reverse starting • star-delta circuit • star-delta reversing circuit • Dahlander reversing circuit • pole-changing switch circuit  Pes  Yes  Yes  Yes  Yes  Yes  Yes  Yes
product function  • parameterizable overload relay  • circuit breaker control  • direct start  • reverse starting  • star-delta circuit  • star-delta reversing circuit  • Dahlander circuit  • Dahlander reversing circuit  • pole-changing switch circuit  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
<ul> <li>parameterizable overload relay</li> <li>circuit breaker control</li> <li>direct start</li> <li>direct start</li> <li>reverse starting</li> <li>star-delta circuit</li> <li>star-delta reversing circuit</li> <li>Dahlander circuit</li> <li>Dahlander reversing circuit</li> <li>pole-changing switch circuit</li> <li>Yes</li> </ul>
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<ul> <li>reverse starting</li> <li>star-delta circuit</li> <li>star-delta reversing circuit</li> <li>Dahlander circuit</li> <li>Dahlander reversing circuit</li> <li>pole-changing switch circuit</li> <li>Yes</li> </ul>
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<ul> <li>Dahlander reversing circuit</li> <li>pole-changing switch circuit</li> <li>Yes</li> </ul>
• 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     No
• protocol is supported PROFINET IO protocol No
• protocol is supported PROFIsafe protocol No
protocol is supported Modbus RTU  Yes
protocol is supported EtherNet/IP     No
• protocol is supported OPC UA Server No
• protocol is supported LLDP No
• protocol is supported Address Resolution Protocol (ARP) No
• protocol is supported SNMP No
• protocol is supported HTTPS No
• protocol is supported NTP No
• protocol is supported Media Redundancy Protocol (MRP) No
• product function is supported Device Level Ring (DLR)
number of interfaces
• according to PROFINET 0
• according to PROFIBUS 0
• according to Ethernet/IP 0
• according to Modbus RTU 1
product function
• web server No
• shared device No
• at the Ethernet interface Autocrossover No
• at the Ethernet interface Autonegotiation No
• at the Ethernet interface Autosensing No
• is supported PROFINET system redundancy (S2)  No
supports PROFlenergy measured values     No

4	0.057.8454-
transfer rate maximum identification & maintenance function	0.057 Mbit/s
	Voc
1&M0 - device-specific information	Yes
1&M1 - higher level designation/location designation	Yes
I&M2 - installation date	Yes
• I&M3 - comment	Yes
type of electrical connection of the communication interface	9-pin D-sub socket (57.6 Kbit) / screw terminal (57.6 Kbit)
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting
height	111 mm
width	45 mm
depth	124 mm
required spacing	40
• 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	2x 0.34 mm², AWG 22
PROFIBUS wire	
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 +60 °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 formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into 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- 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 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



Confirmation









For use in hazardous locations

Declaration of Conformity





IECEx



IECEx



Explosion Protection Certificate



**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping



Special Test Certificate

Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other





Confirmation



Profibu

## 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=3UF7012-1AU00-0

Cax online generator

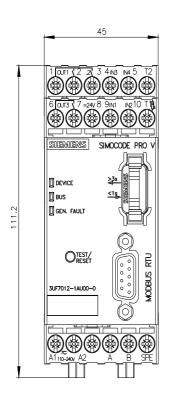
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7012-1AU00-0

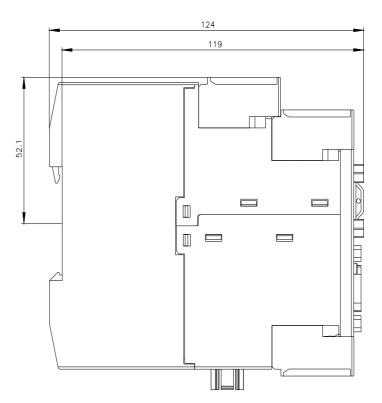
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

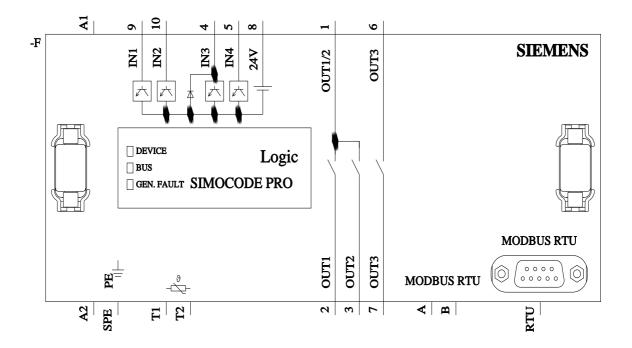
https://support.industry.siemens.com/cs/ww/en/ps/3UF7012-1AU00-0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UF7012-1AU00-0&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UF7012-1AU00-0&lang=en</a>

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







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## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3UF70121AU000