SIEMENS

Data sheet 3UF7012-1AU00-0



Basic unit SIMOCODE pro V MR, MODBUS RTU interface 57.6 Kbps, RS 485, 4l/3O freely parameterizable, Us: 110...240 V AC/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
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
• at 230 V	3 A
switching capacity current of the NO contacts of the	

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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	0.2 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	1102101(2)(0101,1102101(2)(0100)(
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 61000-4-5 	1 kV
 due to high-frequency radiation according to IEC 61000-4-6 	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
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
conducted HF interference emissions according to	
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11	corresponds to degree of severity A
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs	corresponds to degree of severity A
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function • parameterizable inputs	corresponds to degree of severity A corresponds to degree of severity A Yes
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A Yes Yes
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A Yes Yes Yes 4
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1 4
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1 4 Yes
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	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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conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	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
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	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
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	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
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Inputs/ Outputs product function	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 150 m
conducted HF interference emissions according to 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 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 = 2.5 mm² maximum	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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	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
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
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 I&M0 - device-specific information I&M1 - higher level designation/location designation I&M2 - installation date I&M3 - comment Yes Yes 	
• I&M2 - installation date Yes	
• I&M2 - installation date Yes	
type of electrical connection of the communication 9-pin D-sub socket (57.6 Kbit) / screw terminal (57.6 Kl	oit)
interface	oit,
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 Yes	
and control circuit	
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)	
• 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 2x 0.34 mm², AWG 22 PROFIBUS wire	
Ambient conditions	
installation altitude at height above sea level	
• 1 maximum 2 000 m	
• 2 maximum • 2 maximum 3 000 m; max. +50 °C (no protective separation)	
• 3 maximum 4 000 m; max. +40 °C (no protective separation)	
ambient temperature	
·	
a during energtion	
• during operation -25 +60 °C	
• during storage -40 +80 °C	
 during storage during transport -40 +80 °C -40 +80 °C 	
 during storage during transport environmental category -40 +80 °C -40 +80 °C 	idit. 40 05%)
 during storage during transport environmental category during operation according to IEC 60721 -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative hundless)	
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 during storage during transport -40 +80 °C environmental category during operation according to IEC 60721 during storage according to IEC 60721 3K6 (no formation of ice, no condensation, relative hum 3C3 (no salt mist), 3S2 (sand must not get into the dev tK6 (no condensation, relative humidity 10 95%), 1C3 	ices), 3M6
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during storage during transport environmental category during operation according to IEC 60721 during storage according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 during operation ontact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1) or 6 A (IEC 60947-5-1) or 6 A (IEC 60947-1 Safety related data touch protection against electrical shock Galvanic isolation (electrically) protective separation according to IEC 60947-1 No. A0258, must be observed (link see further information to the devices), 1M4 2K2, 2C1, 2S1, 2M2 Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1) or 6 A (IEC 60947-1) Control circuit/ Control product function soft starter control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value 40 +80 °C -40	ices), 3M6 22 (no salt mist), -1), miniature K < 500 A) paths and on" test report,

60 Hz 2 rated value relative symmetrical tolerance of the control supply 5 % voltage frequency control supply voltage at DC 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

1 ms

at 240 VCertificates/ approvals

General Product Approval

EMC

For use in hazardous locations



Confirmation









For use in hazardous locations

Declaration of Conformity

Test Certificates



IECEx



IECEx







Special Test Certificate

Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









other

Confirmation



Profibus

Further information

 $Information-\ and\ Download center\ (Catalogs,\ Brochures,...)$

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

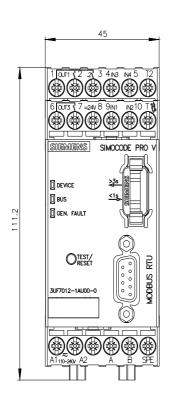
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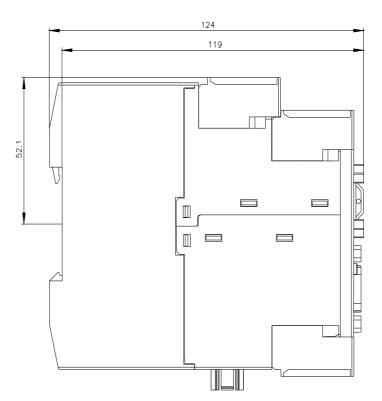
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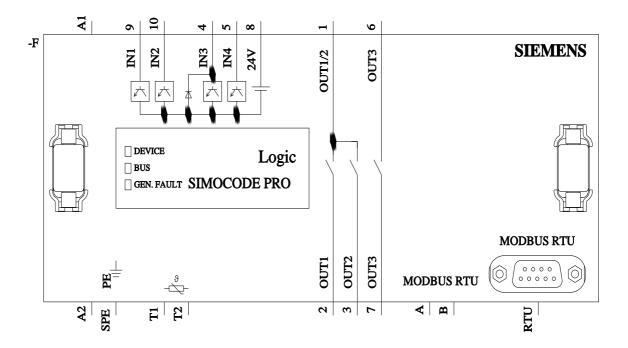
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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

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







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