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, 4I/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 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		
 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	F			
• at 50 °C	6.4			
• at 60 °C	6 A 5 A			
type of input characteristic	Type 1 in accordance with EN 61131-2			
Substance Prohibitance (Date)	03/01/2017			
certificate of suitability	00/01/2017			
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	ITS21UKEX0464, ITS21UKEX0455X			
for Use in Potentially Explosive Atmospheres	110210REX0404, 110210REX0433X			
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) / I (1G/M2), II (1/2) G, II (1G/2D)			
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 61000-4-5 	2 kV			
• due to conductor-conductor surge according to IEC	1 kV			
 61000-4-5 due to high-frequency radiation according to IEC 	10 V			
61000-4-6 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	corresponds to degree of severity A			
CISPR11	corresponds to degree of sevency 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			
	4			
 for thermistor connection 	4 1			
 for thermistor connection number of digital inputs with a common reference potential 				
number of digital inputs with a common reference potential digital input version	1			
number of digital inputs with a common reference potential digital input version • type 1 acc. to IEC 61131	1			
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	1 4			
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	1 4 Yes			
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	1 4 Yes 24 V			
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	1 4 Yes 24 V 3			
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	1 4 Yes 24 V 3 0 3			
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	1 4 Yes 24 V 3 0 3 monostable			
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	1 4 Yes 24 V 3 0 3 monostable Monostable			
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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 mm ² maximum • with conductor cross-section = 1.5 mm ² maximum	1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m			
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 mm ² maximum • with conductor cross-section = 2.5 mm ² maximum	1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m			
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 mm ² maximum • with conductor cross-section = 1.5 mm ² maximum • with conductor cross-section = 2.5 mm ² maximum	1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m			
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 mm ² maximum • with conductor cross-section = 1.5 mm ² maximum • with conductor cross-section = 2.5 mm ² maximum • with conductor cross-section = 2.5 mm ² maximum	1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m			
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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 mm ² maximum • with conductor cross-section = 1.5 mm ² maximum • with conductor cross-section = 2.5 mm ² maximum	1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m			
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 phase failure detection 	Yes		
	Yes		
phase sequence recognition	Yes		
voltage detection	Yes		
 monitoring of number of start operations 			
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	1.5 kΩ		
maximum	2 400 2 000 0		
response value of thermoresistor	3 400 3 800 Ω		
of the short-circuit control	9Ω 4.500 4.050 0		
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		
slide control	Yes		
valve control	Yes		
Communication/ Protocol			
	No		
protocol is supported PROFIBUS DP protocol	No No		
 protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol 	No		
 protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe protocol 	No No		
 protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe protocol protocol is supported Modbus RTU 	No No		
 protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe protocol protocol is supported Modbus RTU protocol is supported EtherNet/IP 	No No Yes		
 protocol is supported PROFIBUS DP protocol 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 	No No Yes No		
 protocol is supported PROFIBUS DP protocol 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 	No No Yes No Yes		
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 protocol is supported PROFIBUS DP protocol 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 Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported Media Redundancy Protocol (MRP) protocol is supported Media Redundancy Protocol (MRP) protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) 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 Autosensing is supported PROFINET system redundancy (S2) supports PROFINET system redundancy (S2) 	No No Yes No Yes Yes No <		
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 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	124 11111				
• top	40 mm				
bottom	40 mm				
• left	0 mm				
• right	0 mm				
	0 11111				
Connections/ Terminals					
product component removable terminal for auxiliary and control circuit	Yes				
type of connectable conductor cross-sections	$1_{V}(0.5, 4.0 \text{ mm}^{2}) 2_{V}(0.5, 0.5 \text{ mm}^{2})$				
 solid finally stranded with care and processing 	$1x (0.5 \dots 4.0 \text{ mm}^2), 2x (0.5 \dots 2.5 \text{ mm}^2)$ $1x (0.5 \dots 2.5 \text{ mm}^2), 2x (0.5 \dots 1.5 \text{ mm}^2)$				
finely stranded with core end processing	1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)				
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				
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)				
Safety related data					
touch protection against electrical shock	finger-safe				
Galvanic isolation					
(electrically) protective separation according to IEC	All circuits with protective separation (double creepage paths and				
60947-1	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				

inrush current peak • at 24 V duration of inrush o • at 24 V Certificates/ approva	current peak Is	17 A 1.1 n			For use in hazard-
General Product A	pproval			EMC	ous locations
SF CM	<u>Confirmation</u>		EHC	RCM	IECEx
For use in hazardo	us locations		Declaration of Co	nformity	Test Certificates
ATEX Test Certificates	K ATEX	IECEx Marine / Shipping	UK CA	CE EG-Konf.	Special Test Certific- ate
Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	Lloydis Register urs	RMRS	DNV-GL ENVELCEMENT
other					
<u>Confirmation</u> Further information	<u>Miscellaneous</u>				

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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