SIEMENS

Data sheet

3UF7011-1AU00-1



Basic unit SIMOCODE pro V PN GP Ethernet/PROFINET IO, PN system redundancy, OPC UA server, Web server, transmission rate 100 Mbps, 2 x bus connection via RJ45, 4 I/3 Q freely parameterizable, Us: 110...240 V AC/DC, input for thermistor connection Monostable relay outputs, expandable by 1 extension module(DM, TM, EM)

product brand name	SIRIUS	
product designation	Motor management system	
design of the product	basic unit 3	
product type designation	SIMOCODE pro V PN GP	
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 	No	
 fail-safe digital I/O module 	No	
 ground-fault monitoring module 	Yes	
 control unit with display 	No	
control unit	Yes	
 analog I/O module 	No	
apparent power consumption	8.3 VA	
consumed active power	4.8 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 (switching cycles) typical	10 000 000
electrical endurance (switching 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	6.4
	6 A
• at 60 °C	5 A
type of input characteristic	Type 1 in accordance with EN 61131-2
Substance Prohibitance (Date)	08/31/2018
certificate of suitability	
according to ATEX directive 2014/34/EU	BVS 06 ATEX F001
explosion device group and category according to ATEX directive 2014/34/EU	II (2) G, II (2) D, I (M2)
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 61000-4-6 	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
conducted HF interference emissions according to CISPR11	corresponds to degree of severity A
conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11	
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	corresponds to degree of severity A
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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
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 • parameterizable inputs • parameterizable outputs	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 • parameterizable inputs • parameterizable outputs number of inputs	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4
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	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 • 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	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1 4
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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 semiconductor outputs number of outputs as contact-affected switching element switching behavior	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable
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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 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	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
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 phase failure detection 	Yes
	No
phase sequence recognition	No
voltage detection monitoring of number of start operations	Yes
monitoring of number of start operations	No
overvoltage detection	
overcurrent detection 1 phase	Yes
undervoltage detection	No
undercurrent detection 1 phase	Yes
active power monitoring	No
product function	Ver
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 	No
Dahlander circuit	No
 Dahlander reversing circuit 	No
 pole-changing switch circuit 	No
 pole-changing switch reversing circuit 	No
slide control	No
valve control	No
valve control Communication/ Protocol	No
Communication/ Protocol	No
Communication/ Protocol protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol	No
Communication/ Protocol • protocol is supported PROFIBUS DP protocol • protocol is supported PROFINET IO protocol • protocol is supported PROFIsafe protocol	No Yes
Communication/ Protocol	No Yes No
Communication/ Protocol 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 Yes No No
Communication/ Protocol 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 Yes No No No
Communication/ Protocol 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 Yes No No Yes
Communication/ Protocol 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 Yes No No No Yes Yes
Communication/ Protocol 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 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP	No Yes No No No Yes Yes
Communication/ Protocol	No Yes No No Yes Yes Yes Yes
Communication/ Protocol 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 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP	No Yes No No Yes Yes Yes Yes
Communication/ Protocol	No Yes No No Yes Yes Yes Yes Yes
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Communication/ Protocol 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 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported NTP protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring	No Yes No No No Yes Yes Yes Yes Yes Yes Yes
Communication/ Protocol 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 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported NTP protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR)	No Yes No No No Yes Yes Yes Yes Yes Yes Yes
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Communication/ Protocol	No Yes No No Yes Yes Yes Yes Yes Yes Yes Yes Yos
Communication/ Protocol	No Yes No No No Yes No No
Communication/ Protocol	No Yes No No No Yes No No
Communication/ Protocol	No Yes No No No Yes No 2 0 0
Communication/ Protocol	No Yes No No No Yes
Communication/ Protocol	No Yes No No No Yes No P Yes No Yes No
Communication/ Protocol 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 NTP 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 PROFINET according to PROFINET web server shared device at the Ethernet interface Autocrossover	No Yes No No No Yes No Yes No Yes No Yes No Yes No Yes No Yes
Communication/ Protocol 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 NTPP 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 PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation	No Yes No No No No Yes Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes No Yes No Yes No Yes No Yes Yes Yes Yes Yes

 is supported PROFINET system redundancy (S2) 	Yes; S2 in conjunction with SIMATIC PCS 7 CPU 410-5H
supports PROFlenergy measured values	Yes
supports PROFlenergy shutdown	Yes
transfer rate maximum	100 Mbit/s
PROFINET conformity class	B
identification & maintenance function	
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	2x RJ45
interface	
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	0 mm
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 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 12), 2x (20 14) 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
	iligu-saic
Calvania isolation	
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,
(electrically) protective separation according to IEC	

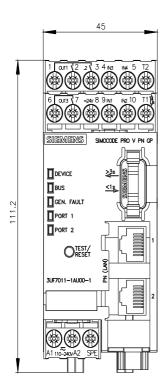
•	t starter control		Yes			
type of voltage of the	e control supply voltage	•	AC/DC			
control supply voltage	ge at AC					
 at 50 Hz rated v 	alue		110 240 V			
 at 60 Hz rated v 			110 240 V			
control supply voltage	ge frequency					
 1 rated value 			50 Hz			
• 2 rated value			60 Hz			
relative symmetrical tolerance of the control supply voltage frequency		I supply	5 %			
control supply voltage at DC						
rated value			110 240 V			
operating range factor control supply voltage rated value at DC		ge rated				
 initial value 			0.85			
• full-scale value			1.1			
	or control supply volta	ge rated				
value at AC at 50 Hz						
 initial value 			0.85			
 full-scale value 			1.1			
	or control supply voltag	ge rated				
value at AC at 60 Hz			0.95			
 initial value 			0.85			
full-scale value			1.1			
inrush current peak			E A			
• at 240 V	urrent neck		5 A			
duration of inrush cu ● at 240 V	urrent peak		1 ms			
		_				
Certificates/ approvals	5					
General Product Ap				EMC	For use in hazard- ous locations	
General Product Ap	proval Confirmation	(U) u	EAC			
General Product Ap	Confirmation	UL	Declaration of Conformity	EMC EMC RCM		
SP.	Confirmation			RCM		
For use in hazardou	Confirmation Is locations	UL	Conformity	Test Certificates Type Test Certific-	ous locations	
For use in hazardout	Confirmation Is locations		Conformity	Test Certificates Type Test Certific-	ous locations	
For use in hazardou ECEX IECEX Test Certificates Special Test Certific-	Confirmation Is locations IECEX Marine / Shipping		Conformity	Test Certificates Type Test Certificates Type Test Certificates Construction Construction	ous locations	

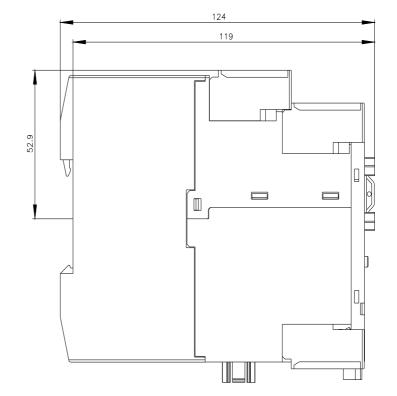
Further information

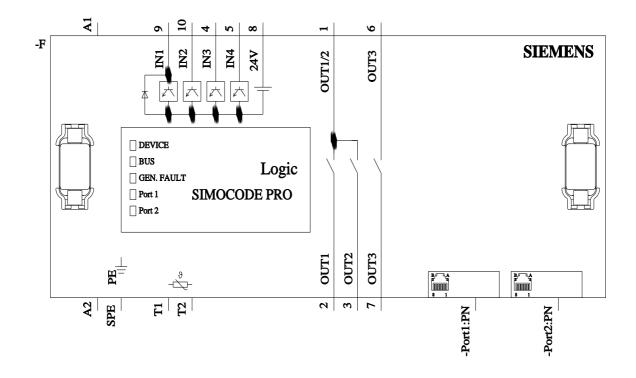
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Test report No. A0258, protective separation

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







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