SIEMENS

Data sheet

3UF7011-1AU00-2



Basic unit SIMOCODE pro V PN GP Ethernet/PROFINET IO, PN system redundancy, OPC UA server, Web server, transmission rate 100 Mbps, 1 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	
	100 000	
electrical endurance (switching cycles) typical		
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 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	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	
	40.1//	
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	6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A	
conducted HF interference emissions according to CISPR11	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	
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 phase failure detection 	Voo
phase failure detection	Yes
phase sequence recognition	No
voltage detection	Yes
monitoring of number of start operations	No
overvoltage detection	Yes
overcurrent detection 1 phase	No
undervoltage detection	Yes
undercurrent detection 1 phase	No
eactive power monitoring product function	NO
current detection	Yes
	Yes
 overload protection evaluation of thermistor motor protection 	Yes
total cold resistance number of sensors in series	1.5 kΩ
maximum	1.5 1.2
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
Communication/ Protocol	
 protocol is supported PROFIBUS DP protocol 	No
 protocol is supported PROFINET IO protocol 	Yes
 protocol is supported PROFIsafe protocol 	No
• protocol is supported Medbus PTU	No
 protocol is supported Modbus RTU 	
 protocol is supported EtherNet/IP 	No
protocol is supported EtherNet/IPprotocol is supported OPC UA Server	No Yes
 protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP 	
protocol is supported EtherNet/IPprotocol is supported OPC UA Server	Yes
 protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP protocol is supported Address Resolution Protocol 	Yes Yes
 protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP protocol is supported Address Resolution Protocol (ARP) 	Yes Yes Yes
 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 	Yes Yes Yes
 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 	Yes Yes Yes Yes
 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 	Yes Yes Yes Yes
 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 	Yes Yes Yes Yes Yes No
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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 	Yes Yes Yes Yes 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 according to PROFIBUS according to Ethernet/IP 	Yes Yes Yes Yes No No
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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 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 PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing 	Yes Yes Yes Yes Yes No No Yes
 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 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 PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation 	Yes Yes Yes Yes Yes No No Yes No 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	1 x RJ45		
interface			
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	screw and snap-on mounting		
height			
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 mm ²), 2x (0.5 2.5 mm ²)		
 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		
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 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			

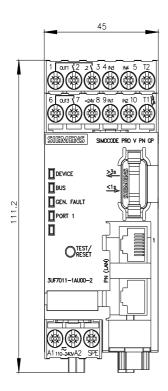
type of voltage of the control supply voltage if	control supply voltage at AC 110 240 V • at 50 Hz rated value 110 240 V • at 60 Hz rated value 50 Hz • 1 rated value 50 Hz • 2 rated value 50 Hz • 2 rated value 60 Hz • rated value 5 % • rated value 110 240 V • at 60 Hz rated value 50 Hz • 1 rated value 60 Hz • rated value 110 240 V • ontrol supply voltage at DC 110 240 V • rated value 0.85 • initial value 0.85 • full-scale value 1.1 operating range factor control supply voltage rated 0.85 • initial value 0.85 • full-scale value 1.1 operating range factor control supply voltage rated 0.85 • initial value 0.85 • full-scale value 1.1 O	control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency • 1 rated value • 2 rated value relative symmetrical tolerance of the control supply voltage frequency	110 240 V		
• • • • 0 O Fr atted value 110 240 V control supply voltage frequency 00 Hz • 2 rated value 00 Hz • 2 rated value 00 Hz • 1 rated value 00 Hz • rated value 0.85 • initial value 0.85		 at 50 Hz rated value at 60 Hz rated value control supply voltage frequency 1 rated value 2 rated value relative symmetrical tolerance of the control supply voltage frequency 			
- + 160 htt rated value 10 240 V - + rated value 50 htt - + rated value 60 htt - + rated value 60 htt rated value 60 htt rated value 60 htt rated value 60 htt	• at 80 Hz rated value 110 240 V control supply voltage frequency 60 Hz • 2 rated value 60 Hz relative symmetrical tolerance of the control supply voltage frequency 5 % control supply voltage at DC 110 240 V • rated value 110 240 V operating range factor control supply voltage rated value at DC 0.85 • initial value 0.85 • full-scale value 1.1 operating range factor control supply voltage rated value at AC at 50 Hz 0.85 • initial value 0.85 • full-scale value 1.1 operating range factor control supply voltage rated value at AC at 60 Hz 0.85 • initial value 0.85 • full-scale value 1.1 operating range factor control supply voltage rated value at AC at 60 Hz 0.85 • full-scale value 1.1 initial value 0.85 • full-scale value 1.1 initial value 0.85 • at 240 V 5 A duration of inrush current peak • at 240 V • at 240 V 1 ms Centimation Image ©r Image • at 240 V 1 ms Centimation Image ©r Image <td>at 60 Hz rated value control supply voltage frequency 1 rated value 2 rated value relative symmetrical tolerance of the control supply voltage frequency</td> <td></td> <td></td> <td></td>	at 60 Hz rated value control supply voltage frequency 1 rated value 2 rated value relative symmetrical tolerance of the control supply voltage frequency			
control supply voltage frequency 50 Hz 2 rated value 60 Hz 2 rated value 5% control supply voltage at DC 5% or rated value 10 240 V operating range factor control supply voltage rated value et al. 0.85 • initial value 0.85 • initial value <t< td=""><td>control supply voltage frequency 50 Hz • 1 rated value 60 Hz • 7 rated value 60 Hz • 7 rated value 60 Hz • rated value 10 240 V • operating range factor control supply voltage rated value at DC 11 240 V • initial value 0.85 • full-scale value 1.1 • operating range factor control supply voltage rated value at C at 50 Hz 0.85 • initial value 0.85 • at 240 V 5 A Centificates/ approval EMC For use in hazard- ous locat</td><td>control supply voltage frequency 1 rated value 2 rated value relative symmetrical tolerance of the control supply voltage frequency </td><td>110 240 V</td><td></td><td></td></t<>	control supply voltage frequency 50 Hz • 1 rated value 60 Hz • 7 rated value 60 Hz • 7 rated value 60 Hz • rated value 10 240 V • operating range factor control supply voltage rated value at DC 11 240 V • initial value 0.85 • full-scale value 1.1 • operating range factor control supply voltage rated value at C at 50 Hz 0.85 • initial value 0.85 • at 240 V 5 A Centificates/ approval EMC For use in hazard- ous locat	control supply voltage frequency 1 rated value 2 rated value relative symmetrical tolerance of the control supply voltage frequency	110 240 V		
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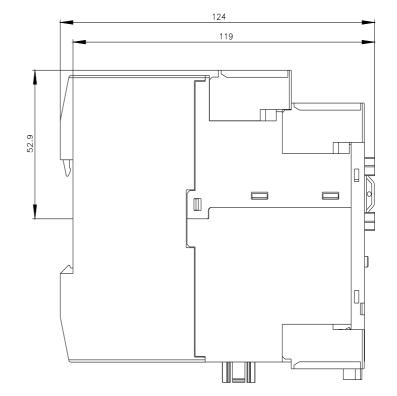
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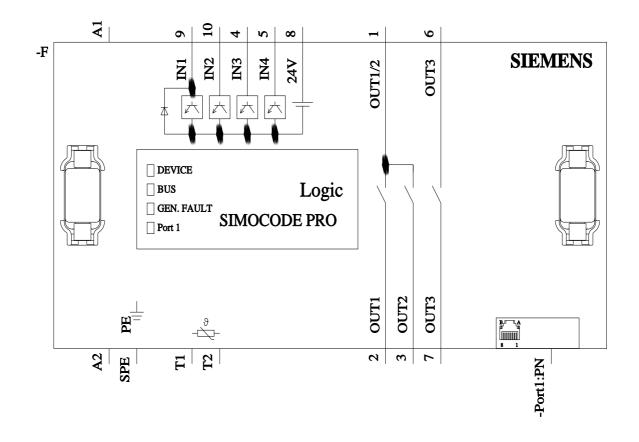
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