



BASIC UNIT 3 SIMOCODE PRO PN; ETHERNET / PROFINET IO;
 OPC UA SERVER AS OF 06/2015; PN SYSTEM REDUNDANCY;
 WEB SERVER; TRANSMISSION RATE 100MBIT/S; 2 X BUS
 CONNECTION VIA RJ45 4E/3A FREELY PARAMETERIZABLE; US:
 AC/DC 110-240V; INPUT F. THERMISTOR CONNECTION;
 MONOSTABLE RELAY OUTPUTS; EXPANDABLE WITH
 EXPANSION MODULE

product brand name	SIRIUS
Product designation	SIMOCODE pro V PN Motor Management System
Design of the product	basic unit 3

General technical data:

Active power loss total typical	8 W
Insulation voltage	
• with degree of pollution 3 Rated value	300 V
• Rated value	300 V
Shock resistance	
• acc. to IEC 60068-2-27	15g / 11 ms
Vibration resistance	1-6 Hz / 15 mm; 6-500 Hz / 2 g
Surge voltage resistance Rated value	4 000 V
Mechanical service life (switching cycles)	
• typical	10 000 000
Electrical endurance (switching cycles)	
• typical	100 000
Protection class IP	IP20
Equipment marking	
• acc. to DIN EN 61346-2	F
• acc. to DIN EN 81346-2	F

Electromagnetic compatibility:

EMC emitted interference	
• acc. to IEC 60947-1	class A
EMI immunity acc. to IEC 60947-1	corresponds to degree of severity 3

Conducted interference due to burst acc. to IEC 61000-4-4	2 kV (power ports) / 1 kV (signal ports)
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5	2 kV
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV
Conducted interference due to high-frequency radiation acc. to IEC 61000-4-6	10 V
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m
Electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge

Inputs/ Outputs:

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
Number of outputs	3
Number of outputs as contact-affected switching element	3
Number of semiconductor outputs	0

Motor protection functions:

Product function overload protection	Yes
Product function Evaluation of thermistor motor protection	Yes

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:

Product function Bus communication	Yes
Protocol is supported	

• PROFIBUS DP protocol • PROFINET IO protocol • PROFIsafe protocol • LLDP • Address Resolution Protocol (ARP) • SNMP • HTTPS • OPC UA Server • NTP • Media Redundancy Protocol (MRP)	No Yes Yes Yes Yes Yes Yes Yes Yes Yes
Product function	
• web server • shared device • at the Ethernet interface Autonegotiation • at the Ethernet interface Autosensing • MRRT redundancy procedure • is supported PROFINET system redundancy • supports PROFINET measured values • supports PROFINET shutdown	Yes Yes Yes Yes Yes Yes Yes Yes
Type of electrical connection of the communication interface	2x RJ45

Installation/ mounting/ dimensions:

mounting position	any
Mounting type	screw and snap-on mounting
Height	111 mm
Width	45 mm
Depth	124 mm

Connections/ Terminals:

Type of electrical connection	
• for auxiliary and control current circuit	screw-type terminals
Product function	
• removable terminal for auxiliary and control circuit	Yes
Type of connectable conductor cross-section	
• solid • finely stranded with core end processing • for AWG conductors — solid — stranded	1x (0.5 ... 4.0 mm ²), 2x (0.5 ... 2.5 mm ²) 1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²) 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 maximum	4 000 m
Ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
• at installation altitude ≤ 3000m during operation maximum	50 °C
• at installation altitude ≤ 4000 m during operation maximum	40 °C
Relative humidity during operation	5 ... 95 %
Contact rating of the auxiliary contacts acc. to UL	B300 / R300
Short-circuit:	
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:	
Protection against electrical shock	finger-safe
Galvanic isolation:	
Design of the electrical isolation	Protective separation in accordance with IEC 60947-1 for all circuits
Main circuit:	
Operating voltage	
• with AC	
— at 50 Hz Rated value	110 ... 240 V
— at 60 Hz Rated value	110 ... 240 V
• for DC Rated value	
— maximum	240 V
— minimum	110 V
Control circuit/ Control:	
Type of voltage of the control supply voltage	AC/DC
Control supply voltage with AC	
• at 50 Hz Rated value	110 ... 240 V
• at 60 Hz Rated value	110 ... 240 V
Control supply voltage for DC	
• Rated value	110 ... 240 V
Control supply voltage 1	
• for DC Rated value	240 V

• Rated value	50 Hz
Control supply voltage frequency 2 Rated value	60 Hz
Response value of thermoresistor	3 400 ... 3 800 Ω

Supply voltage:

Type of voltage of the supply voltage	AC/DC
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Certificates/ approvals:

General Product Approval		For use in hazardous locations		Test Certificates
 CSA		 UL	 ATEX	Explosion Protection Certificate Special Test Certificate

Test Certificates	Shipping Approval	other
Type Test Certificates/Test Report	Declaration of the Compliance with the order	Declaration of Conformity
	 ABS	 DNV
		PROFISafe-Certification

other	
 Profibus	PROFINET-Certification

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

Cax online generator

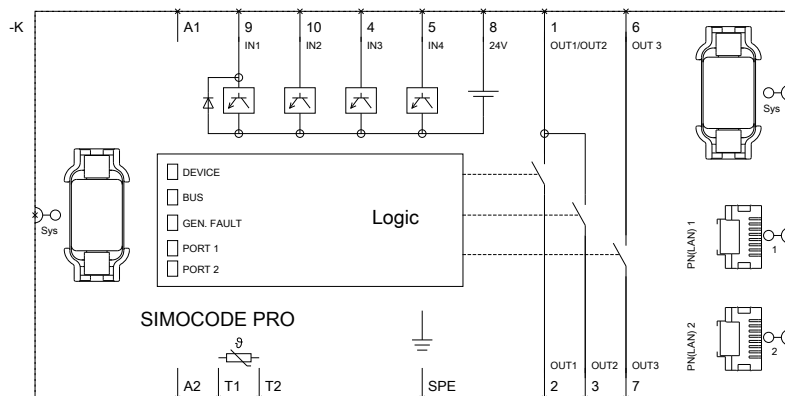
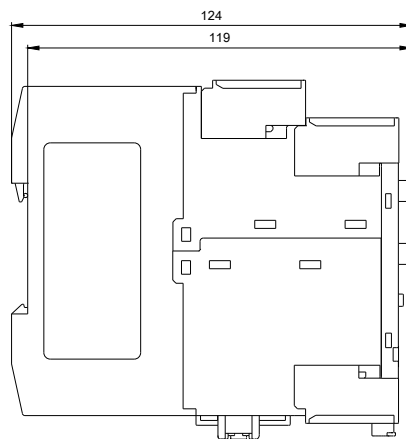
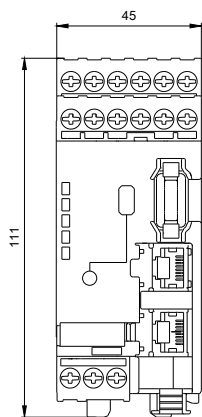
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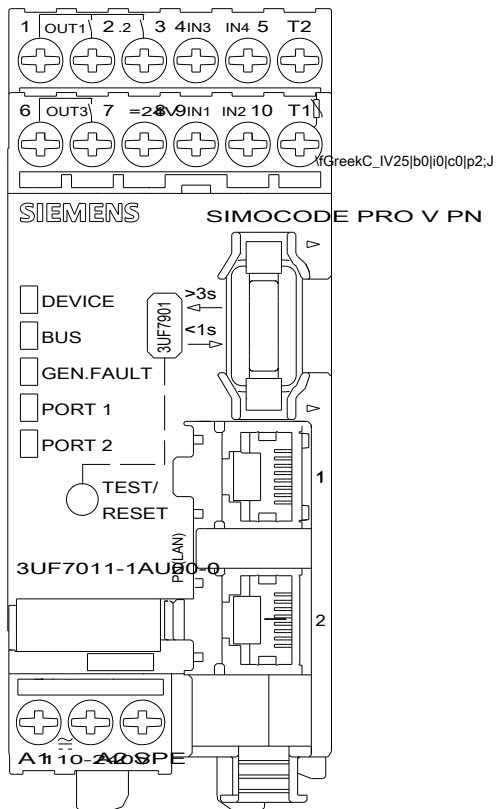
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3UF70111AU000>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF70111AU000&lang=en





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