



BASIC UNIT 3 SIMOCODE PRO V; ETHERNET / PROFINET IO; PN SYSTEM REDUNDANCY; OPC UA SERVER AS OF 06/2015; WEB SERVER; TRANSMISSION RATE 100MBIT/S; 2 X BUS CONNECTION VIA RJ45 4E/3A FREELY PARAMETERIZABLE; US: DC 24V; 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	
• for DC Rated value	
— maximum	24 V
— minimum	24 V
Control circuit/ Control:	
Type of voltage of the control supply voltage	DC
Control supply voltage for DC	
• Rated value	24 ... 24 V
Control supply voltage 1	
• for DC Rated value	24 V
Response value of thermoresistor	3 400 ... 3 800 Ω
Supply voltage:	
Type of voltage of the supply voltage	DC
Certificates/ approvals:	

General Product Approval		For use in hazardous locations		Test Certificates	
				Explosion Protection Certificate	Declaration of the Compliance with the order

Test Certificates		Shipping Approval		other	
Special Test Certificate	Type Test Certificates/Test Report			Declaration of Conformity	PROFINET-Certification

other					
	PROFISafe-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

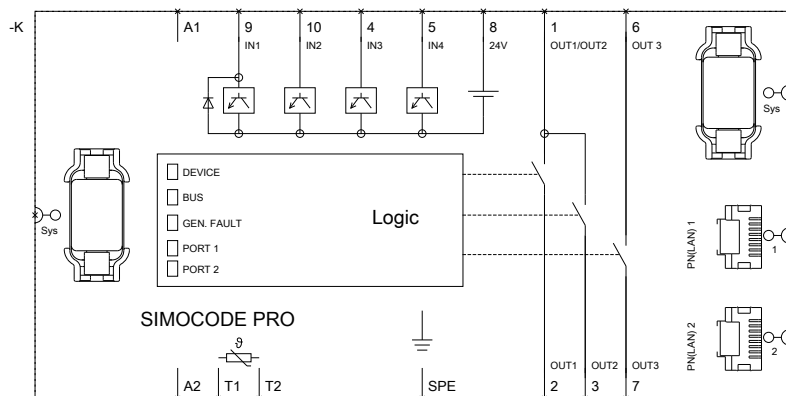
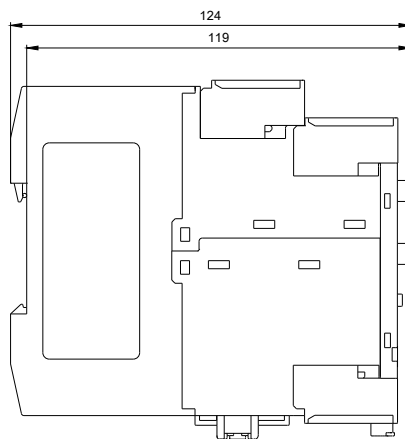
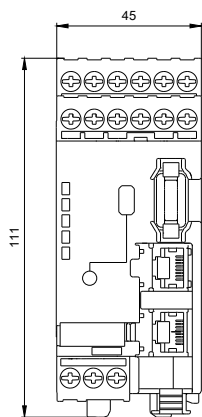
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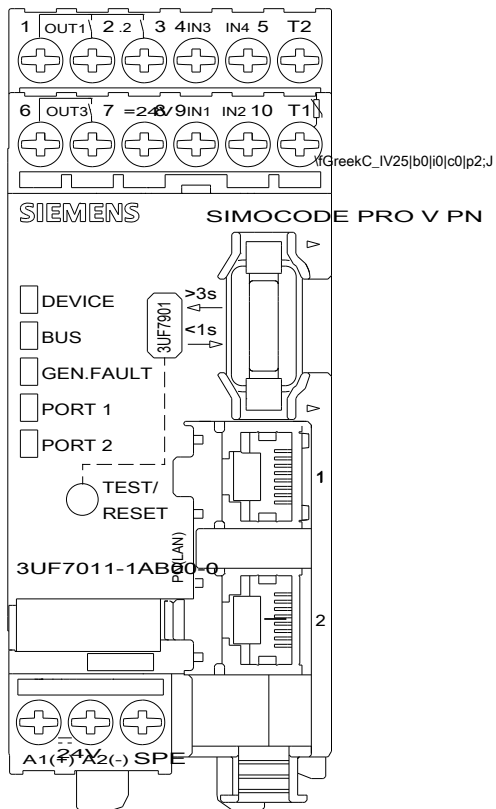
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3UF70111AB000>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF70111AB000&lang=en





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