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Data sheet 3UF7011-1AB00-0



BASIC UNIT 3 SIMOCODE PRO V; ETHERNET / PROFINET IO; PN SYSTEM RED. AS OF 02/2015; 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	W	8
Insulation voltage		
• with degree of pollution 3 Rated value	V	300
• Rated value	V	300
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	V	4 000
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

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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		

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• PROFIBUS DP protocol		No
• PROFINET IO protocol		Yes
• PROFIsafe protocol		Yes
• LLDP		Yes
• Address Resolution Protocol (ARP)		Yes
• SNMP		Yes
• HTTPS		Yes
• OPC UA Server		Yes
• NTP		Yes
• Media Redundancy Protocol (MRP)		Yes
Product function		
• web server		Yes
• shared device		Yes
• at the Ethernet interface Autonegotiation		Yes
• at the Ethernet interface Autosensing		Yes
• MRRT redundancy procedure		Yes
• is supported PROFINET system redundancy		Yes
• supports PROFIenergy measured values		Yes
• supports PROFIenergy shutdown		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	mm	111
Width	mm	45
Depth	mm	124

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		1x (0.5 ... 4.0 mm²), 2x (0.5 ... 2.5 mm²)
• finely stranded with core end processing		1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
• for AWG conductors		
— solid		1x (20 ... 12), 2x (20 ... 14)
— stranded		1x (20 ... 14), 2x (20 ... 16)
Tightening torque		
• with screw-type terminals	N·m	0.8 ... 1.2

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Tightening torque [lbf·in]		
• with screw-type terminals	lbf·in	7 ... 10.3
Ambient conditions:		
Installation altitude at height above sea level maximum	m	4 000
Ambient temperature		
• during operation	°C	-25 ... +60
• during storage	°C	-40 ... +80
• during transport	°C	-40 ... +80
• at installation altitude ≤ 3000m during operation maximum	°C	50
• at installation altitude ≤ 4000 m during operation maximum	°C	40
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	V	24
— minimum	V	24
Control circuit/ Control:		
Type of voltage of the control supply voltage		DC
Control supply voltage for DC		
• Rated value	V	24 ... 24
Control supply voltage 1		
• for DC Rated value	V	24
Response value of thermoresistor	Ω	3 400 ... 3 800
Supply voltage:		
Type of voltage of the supply voltage		DC
Certificates/ approvals:		

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

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

other	
Profibus	PROFISafe-Certification

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

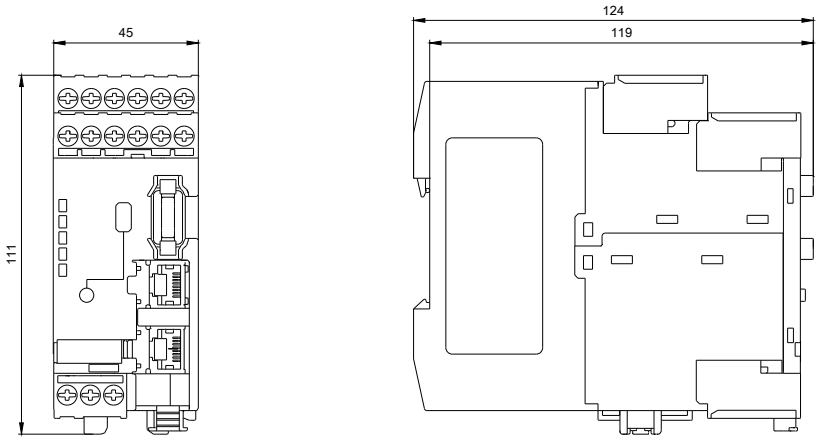
Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

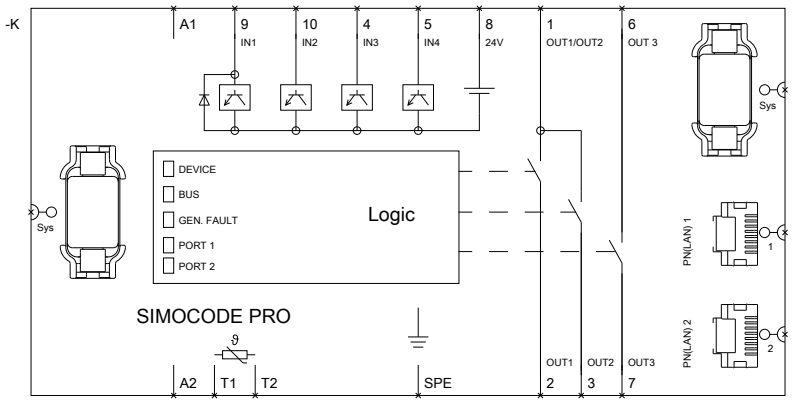
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
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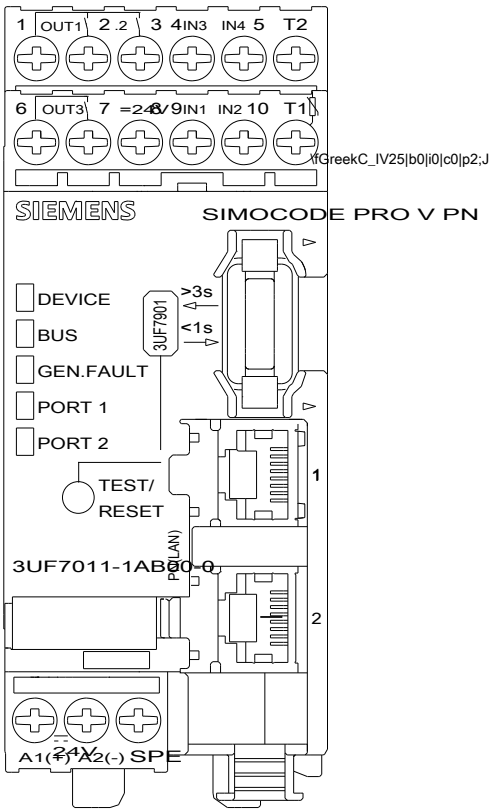
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
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