SIEMENS

Data sheet 3UF7000-1AB00-0

BASIC UNIT 1 SIMOCODE PRO C; PROFIBUS DP-INTERFACE 12 MBIT/S, RS485; 4I/3O FREELY PARAMETERIZABLE; US: DC 24V; THERMISTOR MOTOR PROTECTION; OUTPUTS MONOSTABLE

product brand name		SIRIUS
Product designation		SIMOCODE pro C Motor Management System
Design of the product		basic unit 1

General technical data:		
Active power loss total typical	W	5
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

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		No
• 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:		
Product function Bus communication		Yes
Protocol is supported		

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

Installation/ mounting/ dimensions:		
mounting position		any
Mounting type		screw and snap-on mounting
Height	mm	111
Width	mm	45
Depth	mm	95

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

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, up to installation altitude of 2000 m
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:		

General Product Approval				EMC	For use in hazardous locations
CCC	CSA		UL	C-TICK	ATEX

For use in hazardous locations	Test Certificates			Shipping Approval	
Explosion Protection Certificate	Special Test Certificate	Type Test Certificates/Test Report	Declaration of the Compliance with the order	ABS	DNV

Shipping Approval	other				
GL	Confirmation	Declaration of Conformity	PROFISafe-Certification	Profibus	PROFINET-Certification

Further information

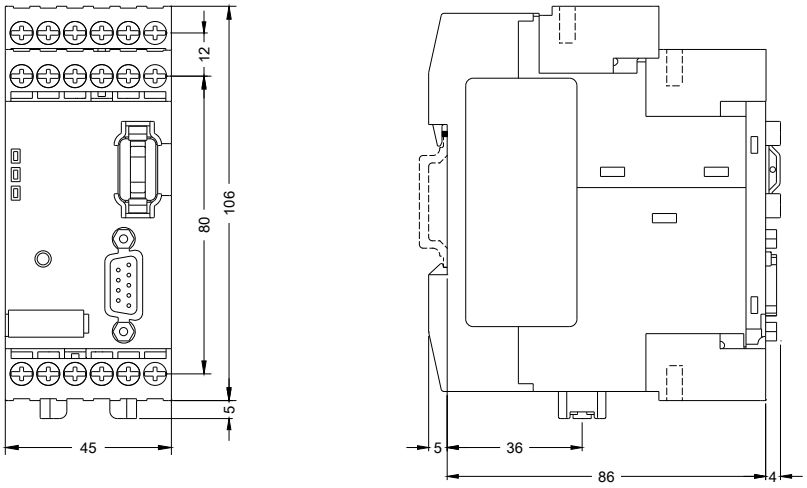
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

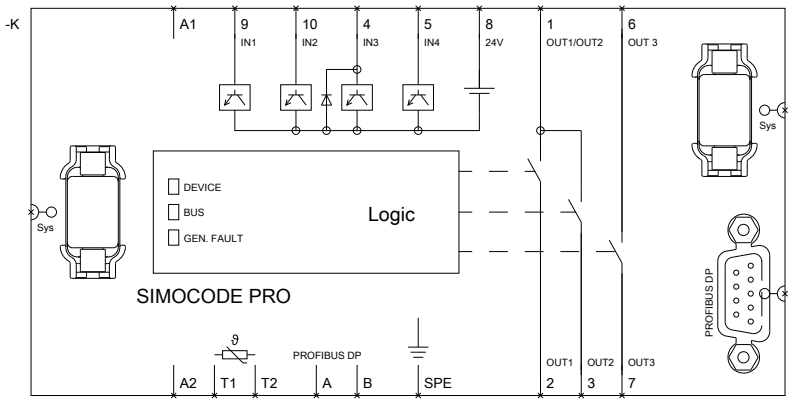
Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF70001AB000

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3UF70001AB000/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF70001AB000&lang=en





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