SIEMENS

Show actual product details

Data sheet 6AG1010-1AU00-4AA0

SIPLUS SIMOCODE PRO V BASIC UNIT 2 -25 ... +60 DEGREES C WITH CONFORMAL COATING BASED ON 3UF7010-1AU00-0 . PROFIBUS DP INTERFACE 12 MBIT/S RS485; 4I/3O FREELY PARAMETERIZABLE; US: AC/DC 110-240V; INPUT F.THERMISTOR MOTOR PROTECTION; RELAY OUTPUTS MONOSTABLE; EXPANDABLE BY EXPANSION MODULES

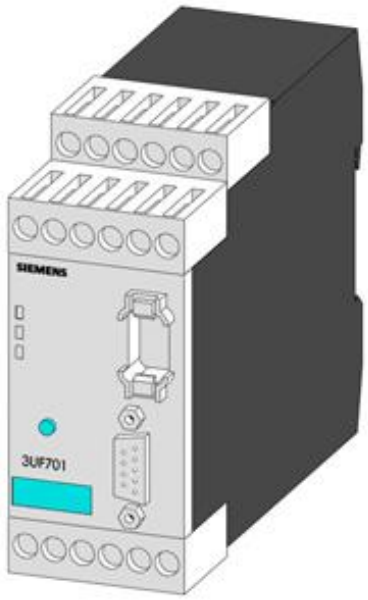


Figure similar

Product designation	SIPLUS SIMOCODE pro V motor management system
Design of the product	basic unit 2

General technical data:

Product function	
• data acquisition function	Yes
• Diagnostics function	Yes
• Password protection	Yes
• Test function	Yes
• maintenance function	Yes
Product component	
• 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	Yes
• failsafe digital I/O module	Yes
• Ground fault monitoring module	Yes
• decoupling module	Yes
• digital I/O module	Yes
• Control unit with display	Yes
• Control unit	Yes
• analog I/O module	Yes
Power loss [W] total typical	7 W
Insulation voltage	
• rated value	300 V
• with degree of pollution 3 rated value	300 V
Surge voltage resistance rated value	4 000 V
Protection class IP	IP20
Shock resistance	
• acc. to IEC 60068-2-27	15g / 11 ms
Vibration resistance	1-6 Hz / 15 mm; 6-500 Hz / 2 g
Switching behavior	monostable
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
Mechanical service life (switching cycles)	
• typical	10 000 000
Electrical endurance (switching cycles)	
• typical	100 000
Equipment marking	
• acc. to DIN EN 61346-2	F
• acc. to DIN EN 81346-2	F
Continuous current of the NO contacts of the relay outputs	
• at 50 °C	6 A
• at 60 °C	5 A
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)
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV
• due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV
• 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
Conducted HF-interference emissions acc. to CISPR11	corresponds to degree of severity A
Field-bound HF-interference emission acc. to CISPR11	corresponds to degree of severity A

Inputs/ Outputs:	
Product function	
• Parameterizable inputs	Yes
• Parameterizable outputs	Yes
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
Input voltage at digital input at DC rated value	24 V
Number of outputs	3
Number of outputs as contact-affected switching element	3
Number of semiconductor outputs	0
Wire length for digital signals maximum	300 m
Wire length for thermistor connection	
• with conductor cross-section = 0.5 mm² maximum	50 m
• with conductor cross-section = 1.5 mm² maximum	150 m
• with conductor cross-section = 2.5 mm² maximum	250 m

Interfaces:	
Number of interfaces	
• acc. to PROFIBUS	1

Protective and monitoring functions:	
Product function	
• Phase unbalance	Yes

• blocking current evaluation	Yes
• power factor monitoring	Yes
• Ground fault detection	Yes
• Phase failure detection	Yes
• phase sequence recognition	Yes
• voltage detection	Yes
• Monitoring of number of start operations	Yes
• Overvoltage detection	Yes
• Overcurrent detection 1 phase	Yes
• undervoltage detection	Yes
• undercurrent detection 1 phase	Yes
• active power measurement	Yes
• active power monitoring	Yes

Motor protection functions:	
Product function	
• Current detection	Yes
• Overload protection	Yes
• Evaluation of thermistor motor protection	Yes
Response value of thermoresistor	3 800 ... 3 400 Ω
Release value of thermoresistor	1 500 ... 1 650 Ω
Explosion device group and category acc. to ATEX product directive 94/9/EC	Ex II (2) GD / Ex I (M2)

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	Yes

• PROFINET IO protocol	No
• PROFIsafe protocol	Yes
• 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	111 mm
Width	45 mm
Depth	124 mm

Connections/ Terminals:	
Product function	
• removable terminal for auxiliary and control circuit	Yes
Type of electrical connection	
• for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-sections	
• 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)
• at AWG conductors solid	1x (20 ... 12), 2x (20 ... 14)
• at AWG conductors 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:	
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
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:	
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	
• at AC	
— at 50 Hz rated value	110 ... 240 V
— at 60 Hz rated value	110 ... 240 V

Control circuit/ Control:	
Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	
• at 50 Hz rated value	110 ... 240 V
• at 60 Hz rated value	110 ... 240 V
Control supply voltage 1	
• at DC rated value	240 V
Control supply voltage frequency 1 rated value	50 Hz
Control supply voltage frequency 2 rated value	60 Hz

Supply voltage:	
Type of voltage of the supply voltage	AC/DC

Certificates/approvals

General Product Approval	EMC	Declaration of Conformity
EAC	sonstig	sonstig
		CE EG-Konf.

Further information

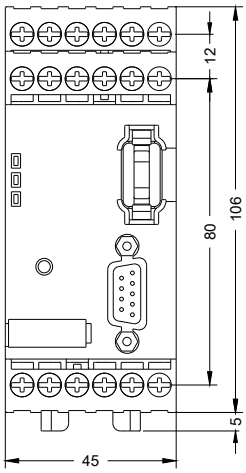
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

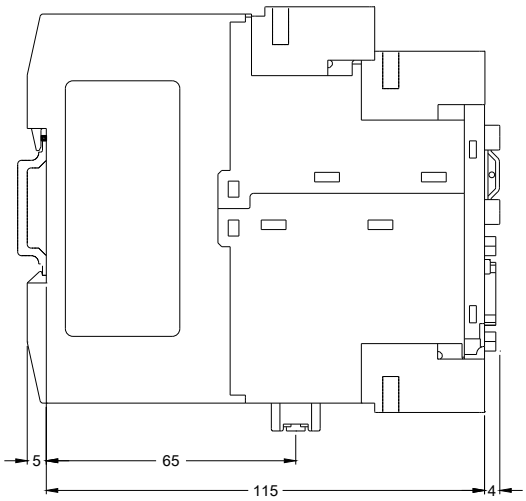
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=6AG1010-1AU00-4AA0

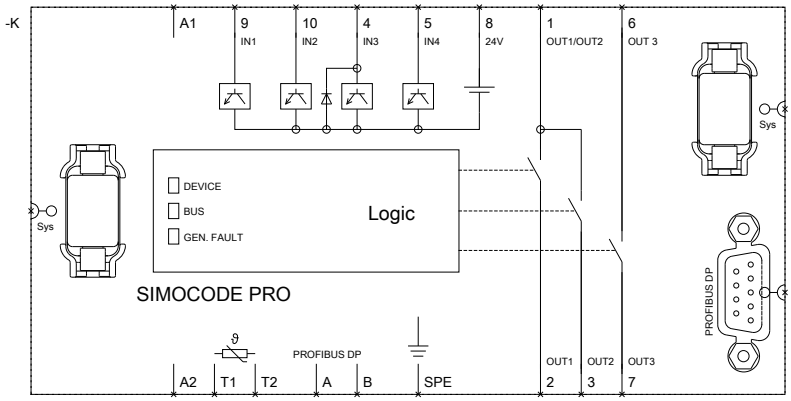
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=6AG1010-1AU00-4AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/6AG1010-1AU00-4AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=6AG1010-1AU00-4AA0&lang=en







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