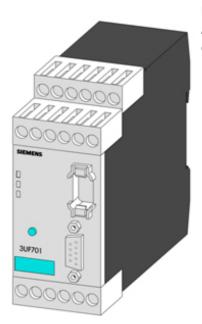
## Data sheet



SIPLUS SIMOCODE pro V Basic unit 2 -25...+60°C with conformal coating based on 3UF7010-1AU00-0 . E- type with "Safety ""12 Mbit/s, RS485;""" "4I/3O freely parameterizable;" "US: 110-240V AC/DC; input for" "thermistor connection;" "monostable relay outputs;" expandable by extension modules

Product brand name	SIPLUS
Product designation	Motor management system
Design of the product	basic unit 2
Product type designation	SIMOCODE pro V

eneral technical data  Product function	
Bus communication	Yes
data acquisition function	Yes
Diagnostics function	Yes
Password protection	Yes
Test function	Yes
maintenance function	Yes
Product component	
<ul> <li>input for thermistor connection</li> </ul>	Yes
Digital input	Yes
• input for analog temperature sensors	No
• input for ground fault detection	No
Relay output	Yes

Product extension	
<ul> <li>Temperature monitoring module</li> </ul>	Yes
<ul> <li>Current measuring module</li> </ul>	Yes
<ul> <li>Current/voltage measuring module</li> </ul>	Yes
• failsafe digital I/O module	Yes
<ul> <li>Ground fault monitoring module</li> </ul>	Yes
Control unit with display	Yes
Control unit	Yes
• analog I/O module	Yes
Insulation voltage	
<ul> <li>with degree of pollution 3 rated value</li> </ul>	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 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
● at 125 V	0.25 A
Mechanical service life (switching cycles)	
• typical	10 000 000
Electrical endurance (switching cycles)	
• typical	100 000
Buffering time in the event of power failure	0.2 s
Reference code 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
Type of input characteristic	Type 1 in accordance with EN 61131-2
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	

<ul><li>due to burst acc. to IEC 61000-4-4</li></ul>	2 kV (power ports) / 1 kV (signal ports)
<ul> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> </ul>	2 kV
<ul> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	1 kV
<ul> <li>due to high-frequency radiation acc. to IEC 61000-4-6</li> </ul>	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	
<ul> <li>Parameterizable inputs</li> </ul>	Yes
<ul> <li>Parameterizable outputs</li> </ul>	Yes
Number of inputs	4
<ul> <li>for thermistor connection</li> </ul>	1
Number of digital inputs	
<ul> <li>with a common reference potential</li> </ul>	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 semiconductor outputs	0
Number of outputs as contact-affected switching element	3
Switching behavior	monostable
Wire length for digital signals maximum	300 m
Wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> </ul>	50 m
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	150 m
• with conductor cross-section = 2.5 mm² maximum	250 m

Protective and monitoring functions	
Product function	
Phase unbalance	Yes
<ul> <li>blocking current evaluation</li> </ul>	Yes
<ul> <li>power factor monitoring</li> </ul>	Yes
Ground fault detection	Yes

Release value of thermoresistor	1 500 1 650 Ω
Response value of thermoresistor	3 400 3 800 Ω
<ul> <li>Evaluation of thermistor motor protection</li> </ul>	Yes
Overload protection	Yes
Current detection	Yes
Product function	
<ul> <li>active power monitoring</li> </ul>	Yes
<ul> <li>undercurrent detection 1 phase</li> </ul>	Yes
<ul> <li>undervoltage detection</li> </ul>	Yes
<ul> <li>Overcurrent detection 1 phase</li> </ul>	Yes
Overvoltage detection	Yes
<ul> <li>Monitoring of number of start operations</li> </ul>	Yes
<ul> <li>voltage detection</li> </ul>	Yes
<ul> <li>phase sequence recognition</li> </ul>	Yes
Phase failure detection	Yes

Motor control functions	
Product function	
<ul> <li>parameterizable overload relay</li> </ul>	Yes
circuit breaker control	Yes
• direct start	Yes
• reverse starting	Yes
• star-delta circuit	Yes
<ul> <li>star-delta reversing circuit</li> </ul>	Yes
Dahlander circuit	Yes
Dahlander reversing circuit	Yes
<ul> <li>pole-changing switch circuit</li> </ul>	Yes
<ul> <li>pole-changing switch reversing circuit</li> </ul>	Yes
Slide control	Yes
• valve control	Yes

ommunication/ Protocol	
Protocol is supported PROFIBUS DP protocol	Yes
<ul> <li>Protocol is supported PROFINET IO protocol</li> </ul>	No
<ul> <li>Protocol is supported PROFIsafe protocol</li> </ul>	Yes
<ul> <li>Protocol is supported Modbus RTU</li> </ul>	No
<ul> <li>Protocol is supported EtherNet/IP</li> </ul>	No
<ul> <li>Protocol is supported OPC UA Server</li> </ul>	No
<ul> <li>Protocol is supported LLDP</li> </ul>	No
<ul> <li>Protocol is supported Address Resolution</li> <li>Protocol (ARP)</li> </ul>	No
<ul> <li>Protocol is supported SNMP</li> </ul>	No
<ul> <li>Protocol is supported HTTPS</li> </ul>	No

No
No
No
1
No
12 Mbit/s
Yes
Yes
Yes
Yes
9-pin SUB-D socket (12 Mbit) / screw terminal (1.5 Mbit)
any
screw and snap-on mounting
111 mm
45 mm
124 mm
Yes
screw-type terminals
1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)

Tightening torque	
<ul><li>with screw-type terminals</li></ul>	0.8 1.2 N·m
Tightening torque [lbf-in]	
<ul> <li>with screw-type terminals</li> </ul>	7 10.3 lbf·in
Type of connectable conductor cross-sections for	2x 0.34 mm², AWG 22
PROFIBUS wire	
Ambient conditions	
Installation altitude at height above sea level	
• 1 maximum	2 000 m
• 2 maximum	3 000 m
• 3 maximum	4 000 m; No protective separation at 40 °C
Ambient temperature	
during operation	-25 +60 °C
Relative humidity	
with condensation maximum	100 %; RH incl. condensation/frost (no commissioning in bedewed state)
Ambient condition relating to ambient temperature - air pressure - installation altitude	-25 +60°C at 1080 hPa 795 hPa (-1000 m +2000 m) // -25 +50°C at 795 hPa 658 hPa (+2000 m +3500 m) // -25 +40°C at 658 hPa 540 hPa (+3500 m +5000 m)
Resistance to mechanically active substances conformity acc. to EN 60721-3-3	Yes; Compliant with EN 60721-3-3, Class 3S4 incl. sand, dust; the supplied plug covers must remain in place on the unused interfaces during operation.
Resistance to chemically active substances conformity acc. to EN 60721-3-3	Yes; Compliant with EN 60721-3-3, Class 3B2 mold and fungal spores (except fauna); the supplied plug covers must remain in place on the unused interfaces during operation.
Resistance to biologically active substances conformity acc. to EN 60721-3-3	Yes; Compliant with EN 60721-3-3, Class 3C4 incl. salt spray in accordance with EN 60068-2-52 (severity 3); the supplied plug covers must remain in place on the unused interfaces during operation.
Resistance to salt-laden atmosphere conformity acc. to EN 60068-2-52	Yes; Severity 3
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
Main circuit	
Operating voltage	
• at AC	
— at 50 Hz rated value	110 240 V

— at 60 Hz rated value	110 240 V
• at DC	
— rated value	110 240 V

Control circuit/ Control	
Product function soft starter control	Yes
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 frequency	
● 1 rated value	50 Hz
• 2 rated value	60 Hz
Control supply voltage at DC	
• rated value	110 240 V
Control supply voltage 1	
<ul> <li>at DC rated value</li> </ul>	240 V
Operating range factor control supply voltage rated value at DC	
● initial value	0.85
Full-scale value	1.1
Operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.85
• Full-scale value	1.1
Operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.85
• Full-scale value	1.1

**EMC** 

Miscellaneous

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

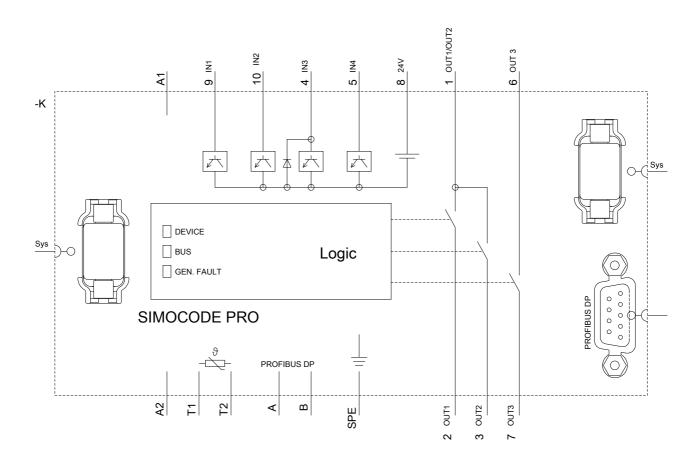
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=6AG1010-1AU00-4AA0

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, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=6AG1010-1AU00-4AA0&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=6AG1010-1AU00-4AA0&lang=en</a>

Test report No. A0258, protective separation

https://support.industry.siemens.com/cs/ww/en/view/109748152



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