



Figure similar

SIPLUS SIMOCODE pro V basic unit 2 based on 3UF7010-1AU00-0 with conformal coating, -25...+60 °C, PROFIBUS DP interface 12 Mbps, RS-485; 4 I/3 O freely parameterizable US: 110-240 V AC/DC; input for thermistor connection; monostable relay outputs; expandable by expansion modules

product brand name	SIPLUS
product designation	Motor management system
design of the product	basic unit 2
product type designation	SIMOCODE pro V
General 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	
• input for thermistor connection	Yes
• 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
• fail-safe digital I/O module	Yes
• ground-fault monitoring module	Yes
• control unit with display	Yes
• control unit	Yes
• analog I/O module	Yes
insulation voltage with degree of pollution 3 at AC rated value	300 V
surge voltage resistance rated value	4 000 V
protection class IP	IP20
shock resistance	
• according 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	
<ul style="list-style-type: none"> • at 24 V • at 60 V • at 125 V 	2 A 0.55 A 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 according to IEC 81346-2	F
continuous current of the NO contacts of the relay outputs	
<ul style="list-style-type: none"> • at 50 °C • at 60 °C 	6 A 5 A
type of input characteristic	Type 1 in accordance with EN 61131-2
Substance Prohibittance (Date)	05/01/2012
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3
conducted interference	
<ul style="list-style-type: none"> • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 	2 kV (power ports) / 1 kV (signal ports) 2 kV 1 kV 10 V
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
conducted HF interference emissions according to CISPR11	corresponds to degree of severity A
field-bound HF interference emission according to CISPR11	corresponds to degree of severity A
Inputs/ Outputs	
product function	
<ul style="list-style-type: none"> • parameterizable inputs • parameterizable outputs 	Yes Yes
number of inputs	4
<ul style="list-style-type: none"> • 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 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 style="list-style-type: none"> • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum 	50 m 150 m 250 m
Protective and monitoring functions	
product function	
<ul style="list-style-type: none"> • asymmetry detection • blocking current evaluation • power factor monitoring • ground fault detection • phase failure detection • phase sequence recognition • voltage detection • monitoring of number of start operations • overvoltage detection 	Yes Yes Yes Yes Yes Yes Yes Yes

<ul style="list-style-type: none"> • overcurrent detection 1 phase • undervoltage detection • undercurrent detection 1 phase • active power monitoring 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
product function	
<ul style="list-style-type: none"> • current detection • overload protection • evaluation of thermistor motor protection 	<p>Yes</p> <p>Yes</p> <p>Yes</p>
response value of thermoresistor	3 400 ... 3 800 Ω
release value of thermoresistor	1 500 ... 1 650 Ω
Motor control functions	
product function	
<ul style="list-style-type: none"> • parameterizable overload relay • circuit breaker control • direct start • reverse starting • star-delta circuit • star-delta reversing circuit • Dahlander circuit • Dahlander reversing circuit • pole-changing switch circuit • pole-changing switch reversing circuit • slide control • valve control 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
Communication/ Protocol	
<ul style="list-style-type: none"> • protocol is supported PROFIBUS DP protocol • protocol is supported PROFINET IO protocol • protocol is supported PROFI-safe protocol • protocol is supported Modbus RTU • protocol is supported EtherNet/IP • protocol is supported OPC UA Server • protocol is supported LLDP • protocol is supported Address Resolution Protocol (ARP) • protocol is supported SNMP • protocol is supported HTTPS • protocol is supported NTP • protocol is supported Media Redundancy Protocol (MRP) • product function is supported Device Level Ring (DLR) 	<p>Yes</p> <p>No</p> <p>Yes</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
number of interfaces	
<ul style="list-style-type: none"> • according to PROFIBUS 	1
product function	
<ul style="list-style-type: none"> • web server • shared device • at the Ethernet interface Autocrossover • at the Ethernet interface Autonegotiation • at the Ethernet interface Autosensing • is supported PROFINET system redundancy • supports PROFIenergy measured values • supports PROFIenergy shutdown 	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
transfer rate maximum	12 Mbit/s
identification & maintenance function	
<ul style="list-style-type: none"> • I&M0 - device-specific information • I&M1 – higher level designation/location designation • I&M2 - installation date • I&M3 - comment 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
type of electrical connection of the communication interface	9-pin SUB-D socket (12 Mbit) / screw terminal (1.5 Mbit)

Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting
height	111 mm
width	45 mm
depth	124 mm
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • solid 	1x (0.5 ... 4.0 mm ²), 2x (0.5 ... 2.5 mm ²)
<ul style="list-style-type: none"> • finely stranded with core end processing 	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²)
<ul style="list-style-type: none"> • at AWG cables solid 	1x (20 ... 12), 2x (20 ... 14)
<ul style="list-style-type: none"> • at AWG cables 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
type of connectable conductor cross-sections for PROFIBUS wire	2x 0.34 mm ² , AWG 22
Ambient conditions	
installation altitude at height above sea level	
<ul style="list-style-type: none"> • 1 maximum 	2 000 m
<ul style="list-style-type: none"> • 2 maximum 	3 000 m
<ul style="list-style-type: none"> • 3 maximum 	4 000 m; max. +40 °C (no protective separation)
ambient temperature	
<ul style="list-style-type: none"> • during operation 	-25 ... +60 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +80 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +80 °C
relative humidity	
<ul style="list-style-type: none"> • 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 according to EN 60721-3-3	Yes; The supplied plug covers must remain in place over the unused interfaces during operation!
resistance to chemically active substances conformity according 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 according 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 according 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	
touch protection against electrical shock	finger-safe
Main circuit	
operating voltage	
<ul style="list-style-type: none"> • at AC 	
<ul style="list-style-type: none"> — at 50 Hz rated value 	110 ... 240 V
<ul style="list-style-type: none"> — at 60 Hz rated value 	110 ... 240 V
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • at 50 Hz rated value 	110 ... 240 V
<ul style="list-style-type: none"> • at 60 Hz rated value 	110 ... 240 V
control supply voltage frequency	

<ul style="list-style-type: none"> • 1 rated value 	50 Hz
<ul style="list-style-type: none"> • 2 rated value 	60 Hz
control supply voltage at DC	
<ul style="list-style-type: none"> • rated value 	110 ... 240 V
control supply voltage 1 at DC rated value	240 V
operating range factor control supply voltage rated value at DC	
<ul style="list-style-type: none"> • initial value 	0.85
<ul style="list-style-type: none"> • full-scale value 	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
<ul style="list-style-type: none"> • initial value 	0.85
<ul style="list-style-type: none"> • full-scale value 	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
<ul style="list-style-type: none"> • initial value 	0.85
<ul style="list-style-type: none"> • full-scale value 	1.1

Certificates/ approvals

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=6AG1010-1AU00-4AA0>

Cax online generator

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

Test report No. A0258, protective separation

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

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