



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

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| 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 |

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| 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 |

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| <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 | |
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| 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 | |

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| <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?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

Test report No. A0258, protective separation

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

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