SIEMENS

product brand name

Data sheet 3UF7011-1AU00-1

SIRIUS



Basic unit SIMOCODE pro V PN GP Ethernet/PROFINET IO, PN system redundancy, OPC UA server, Web server, transmission rate 100 Mbps, 2 x bus connection via RJ45, 4 I/3 Q freely parameterizable, Us: 110...240 V AC/DC, input for thermistor connection Monostable relay outputs, expandable by 1 extension module(DM, TM, EM)

| product brand name | SIRIUS |
|---|--------------------------------|
| product designation | Motor management system |
| design of the product | basic unit 3 |
| product type designation | SIMOCODE pro V PN GP |
| 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 | No |
| fail-safe digital I/O module | No |
| ground-fault monitoring module | Yes |
| control unit with display | No |
| control unit | Yes |
| analog I/O module | No |
| apparent power consumption | 8.3 V·A |
| consumed active power | 4.8 W |
| 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 | |
| • 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 | 0.02 s |
| reference code acc. to IEC 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 |
| | |
| Substance Prohibitance (Date) certificate of suitability | 31.08.2018 00:00:00 |
| • | DVC OC ATEV FOOA |
| according to ATEX directive 2014/34/EU | BVS 06 ATEX F001 |
| explosion device group and category according to ATEX directive 2014/34/EU | II (2) G, II (2) D, I (M2) |
| Electromagnetic compatibility | |
| EMC emitted interference acc. to IEC 60947-1 | class A |
| EMC 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-based interference 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 |
| | and the desired of the desired of the second |
| conducted HF interference emissions acc. to CISPR11 | corresponds to degree of severity A |
| conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 | corresponds to degree of severity A corresponds to degree of severity A |
| field-bound HF interference emission acc. to CISPR11 | |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs | |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function | corresponds to degree of severity A |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function • parameterizable inputs | Corresponds to degree of severity A Yes |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function | Yes Yes |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function | Yes Yes 4 |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function • parameterizable inputs • parameterizable outputs number of inputs • for thermistor connection | Yes Yes 4 1 |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function | Yes Yes 4 1 |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function • parameterizable inputs • parameterizable outputs number of inputs • for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 | Yes Yes 4 1 4 Yes |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function | Yes Yes 4 1 4 Yes 24 V |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function | Yes Yes 4 1 4 Yes 24 V |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function • parameterizable inputs • parameterizable outputs number of inputs • for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of semiconductor outputs | Yes Yes 4 1 4 Yes 24 V 3 |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function parameterizable inputs parameterizable outputs number of inputs for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of semiconductor outputs number of outputs as contact-affected switching element | Yes Yes 4 1 4 Yes 24 V |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function | Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function | Yes Yes 4 1 4 Yes 24 V 3 0 3 |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function | Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function parameterizable inputs parameterizable outputs number of inputs for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of semiconductor outputs number of outputs as contact-affected switching element switching behavior type of relay outputs wire length for digital signals maximum wire length for thermistor connection | Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function | Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function parameterizable inputs parameterizable outputs number of inputs for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of semiconductor outputs number of outputs as contact-affected switching element switching behavior type of relay outputs wire length for digital signals maximum wire length for thermistor connection | Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function | Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function | Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function parameterizable inputs parameterizable outputs number of inputs for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of semiconductor outputs number of outputs as contact-affected switching element switching behavior type of relay outputs wire length for digital signals maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum | Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function parameterizable inputs parameterizable outputs number of inputs for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of semiconductor outputs number of outputs as contact-affected switching element switching behavior type of relay outputs wire length for digital signals maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum | Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function parameterizable inputs product function parameterizable outputs for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of semiconductor outputs number of outputs as contact-affected switching element switching behavior type of relay outputs wire length for digital signals maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum protective and monitoring functions product function asymmetry detection | Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function parameterizable inputs parameterizable outputs number of inputs for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of semiconductor outputs number of outputs as contact-affected switching element switching behavior type of relay outputs wire length for digital signals maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum protective and monitoring functions product function asymmetry detection blocking current evaluation | Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function parameterizable inputs parameterizable outputs number of inputs for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of outputs number of outputs as contact-affected switching element switching behavior type of relay outputs wire length for digital signals maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum protective and monitoring functions product function asymmetry detection blocking current evaluation power factor monitoring | Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function parameterizable inputs parameterizable outputs number of inputs for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of semiconductor outputs number of outputs as contact-affected switching element switching behavior type of relay outputs wire length for digital signals maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum swith conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum protective and monitoring functions product function asymmetry detection blocking current evaluation power factor monitoring ground fault detection | Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m Yes Yes Yes No Yes |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function parameterizable inputs parameterizable outputs number of inputs for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of outputs number of outputs as contact-affected switching element switching behavior type of relay outputs wire length for digital signals maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum protective and monitoring functions product function asymmetry detection blocking current evaluation power factor monitoring | Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m |

| voltage detection | No |
|---|--|
| monitoring of number of start operations | Yes |
| overvoltage detection | No |
| overcurrent detection 1 phase | Yes |
| undervoltage detection | No |
| undercurrent detection 1 phase | Yes |
| active power monitoring | No |
| product function | |
| • | Yes |
| current detection | |
| overload protection | Yes |
| evaluation of thermistor motor protection | Yes |
| total cold resistance number of sensors in series maximum | 1.5 kΩ |
| | 3 400 3 800 Ω |
| response value of thermoresistor | |
| of the short-circuit control | 9 Ω |
| release value of thermoresistor | 1 500 1 650 Ω |
| 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 | No |
| Dahlander circuit | No |
| Dahlander reversing circuit | No |
| pole-changing switch circuit | No |
| | No |
| pole-changing switch reversing circuit | |
| • slide control | No |
| valve control | No |
| Communication/ Protocol | |
| | |
| protocol is supported PROFIBUS DP protocol | No |
| | No Yes |
| protocol is supported PROFIBUS DP protocol | |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol | Yes |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe protocol protocol is supported Modbus RTU | Yes No |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe protocol protocol is supported Modbus RTU protocol is supported EtherNet/IP | Yes No No |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe protocol protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server | Yes No No No |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe 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 | Yes No No No Yes |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe 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) | Yes No No No Yes Yes Yes Yes |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe 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 | Yes No No No Yes Yes Yes Yes |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe 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 | Yes No No No Yes Yes Yes Yes Yes |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFIsafe 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 | Yes No No No Yes Yes Yes Yes Yes Yes Yes |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISafe 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) | Yes No No No Yes Yes Yes Yes Yes Yes Yes Yes Yes |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISafe 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 Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) | Yes No No No Yes Yes Yes Yes Yes Yes |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISafe 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) number of interfaces | Yes No No No Yes Yes Yes Yes Yes Yes Yes Yes Yes No |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISafe 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) number of interfaces acc. to PROFINET | Yes No No No No Yes Yes Yes Yes Yes Yes Yes Yes You Yes Yes Yes Yes |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISafe 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) number of interfaces acc. to PROFINET acc. to PROFIBUS | Yes No No No No Yes Yes Yes Yes Yes Yes Yes You Yes You Yes You Yes Yes You Ye |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISafe 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) number of interfaces acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP | Yes No No No No Yes Yes Yes Yes Yes Yes Yes Yes You Yes Yes Yes Yes |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISafe 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) number of interfaces acc. to PROFINET acc. to PROFIBUS | Yes No No No Yes Yes Yes Yes Yes Yes Yes Yos No |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISafe 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) number of interfaces acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP | Yes No No No No Yes Yes Yes Yes Yes Yes Yes You Yes You Yes You Yes Yes You Ye |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISafe 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) number of interfaces acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP product function | Yes No No No No Yes Yes Yes Yes Yes Yes Yes You O O |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISafe 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) number of interfaces acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP product function web server | Yes No No No Yes Yes Yes Yes Yes Yes Yes Yes O O O Yes |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISafe 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) number of interfaces acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP product function web server shared device | Yes No No No No Yes Yes Yes Yes Yes Yes Yes You Yes Yes No |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISafe 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 Media Redundancy Protocol (MRP) protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation | Yes No No No No Yes Yes Yes Yes Yes Yes Yes Yes Yes No 2 0 0 0 Yes No Yes |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISATE 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 Media Redundancy Protocol (MRP) protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication | Yes No No No No Yes Yes Yes Yes Yes Yes Yes Yes No 2 0 0 7 Yes No Yes Yes Yes Yes |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISATE protocol protocol is supported PROFISATE 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) number of interfaces acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication (MRPD) | Yes No No No No Yes Yes Yes Yes Yes Yes Yes Yes No 2 0 0 0 Yes No Yes Yes Yes Yes Yes Yes Yes |
| protocol is supported PROFIBUS DP protocol protocol is supported PROFINET IO protocol protocol is supported PROFISATE 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 Media Redundancy Protocol (MRP) protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing Media Redundancy Protocol for Planned Duplication | Yes No No No No Yes Yes Yes Yes Yes Yes Yes Yes No 2 0 0 Yes No Yes Yes Yes Yes Yes |

| supports PROFlenergy shutdown | Yes |
|--|--|
| transfer rate maximum | 100 Mbit/s |
| PROFINET conformity class | B |
| identification & maintenance function | ş |
| I&M0 - device-specific information | Yes |
| 1&M1 – higher level designation/location designation | Yes |
| I&M2 - installation date | Yes |
| • I&M3 - comment | Yes |
| type of electrical connection of the communication | 2x RJ45 |
| interface | 2.41.040 |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | screw and snap-on mounting |
| height | 111 mm |
| width | 45 mm |
| depth | 124 mm |
| required spacing | |
| • top | 40 mm |
| bottom | 40 mm |
| • left | 0 mm |
| • right | 0 mm |
| Connections/ Terminals | |
| product component removable terminal for auxiliary and control circuit | Yes |
| 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 cables solid | 1x (20 12), 2x (20 14) |
| at AWG cables stranded | 1x (20 14), 2x (20 14) |
| 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 | 7 10.5 lb1 iii |
| installation altitude at height above sea level | |
| • 1 maximum | 2 000 m |
| • 2 maximum | 3 000 m; max. +50 °C (no protective separation) |
| • 3 maximum | 4 000 m; max. +40 °C (no protective separation) |
| ambient temperature | 4 000 III, Illax. 140 O (Illo protective separation) |
| during operation | -25 +60 °C |
| during operation during storage | -40 +80 °C |
| | -40 +80 °C |
| during transport environmental category | |
| during operation acc. to IEC 60721 | 3K6 (no formation of ice, no condensation, relative humidity 10 95%), |
| <u>.</u> | 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 |
| • during storage acc. to IEC 60721 | 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 |
| during transport acc. to IEC 60721 | 2K2, 2C1, 2S1, 2M2 |
| relative humidity | , -,, |
| during operation | 5 95 % |
| 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 |
| Galvanic isolation | |
| (electrically) protective separation acc. to IEC 60947-1 | All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information) |
| 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 |
| relative symmetrical tolerance of the control supply voltage frequency | 5 % |
| control supply voltage at DC | |
| rated value | 110 240 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 |
| Cartificates/ approvals | |

Certificates/ approvals

General Product Approval

EMC

For use in hazardous locations













For use in hazardous locations

Declaration of Conformity

Test Certificates







IECEx



<u>}</u>

E Konf.

Type Test Certificates/Test Report Special Test Certificate

Test Certificates

Marine / Shipping

other

Special Test Certificate









Confirmation

other



PROFINET-Certification

Profibus

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=3UF7011-1AU00-1

Cax online generator

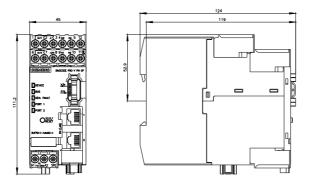
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7011-1AU00-1

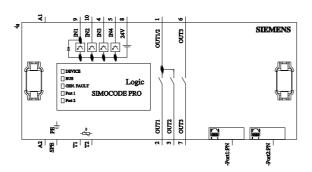
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UF7011-1AU00-1

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7011-1AU00-1&lang=en

Test report No. A0258, protective separation

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





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