SIEMENS

## Data sheet 3UF7013-1AB00-0

Basic unit SIMOCODE pro V EIP, EtherNet/IP, medium redundancy DLR, Web server, transmission rate 100 Mbps, 2 x bus connection via RJ45, 4I/3O freely parameterizable, Us: 24 V DC, input for thermistor connection Monostable relay outputs, expandable by extension modules

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| **product brand name** | SIRIUS |
| **product designation** | Motor management system |
| **design of the product** | basic unit 3 |
| **product type designation** | SIMOCODE pro V EIP |
| **General technical data** | |
| **product function** | |
| ● current measurement | No |
| ● voltage measurement | No |
| ● active power measurement | Yes |
| ● energy measurement | No |
| ● frequency measurement | No |
| ● 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 |
| ● decoupling module | Yes |
| ● control unit with display | Yes |
| ● control unit | Yes |
| ● analog I/O module | Yes |
| **consumed active power** | 3.9 W |
| insulation voltage with degree of pollution 3 at AC rated value | 300 V |
| **surge voltage resistance rated value** | 4 000 V |
| **shock resistance** | |
| ● **according to IEC 60068-2-27** | 15g / 11 ms |
| ● **vibration resistance** | 1-6 Hz / 15 mm; 6-500 Hz / 2 g |

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| **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 (operating cycles) typical** | 10 000 000 |
| electrical endurance (operating cycles) typical | 100 000 |
| **buffering time in the event of power failure** | 0.02 s |
| **reference code according 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)** | 03/01/2017 |
| **SVHC substance name** | Lead - 7439-92-1<br>Lead monoxide (lead oxide) - 1317-36-8 |
| **Weight** | 0.339 kg |
| **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** | |
| ● due to burst according to IEC 61000-4-4 | 2 kV (power ports) / 1 kV (signal ports) |
| ● due to conductor-earth surge according to IEC 61000-4-5 | 2 kV |
| ● due to conductor-conductor surge according to IEC 61000-4-5 | 1 kV |
| ● due to high-frequency radiation according to IEC 61000-4-6 | 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** | |
| ● 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 semiconductor outputs** | 0 |
| **number of outputs as contact-affected switching element** | 3 |
| **switching behavior** | monostable |
| **type of relay outputs** | Monostable |
| **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 |
| **Protective and monitoring functions** | |
| **product function** | |
| ● asymmetry detection | Yes |
| ● blocking current evaluation | Yes |
| ● power factor monitoring | Yes |

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| ● ground fault detection | Yes |
| ● ground-fault monitoring | No |
| ● 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 monitoring | Yes |
| **product function** | |
| ● current detection | Yes |
| ● overload protection | Yes |
| ● evaluation of thermistor motor protection | Yes |
| **total cold resistance number of sensors in series maximum** | 1.5 kΩ |
| **response value of thermoresistor** | 3 400 ... 3 800 Ω |
| ● 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 | 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** | |
| **protocol is supported** | |
| ● PROFIBUS DP protocol | No |
| ● PROFINET IO protocol | No |
| ● PROFIsafe protocol | No |
| ● Modbus RTU | No |
| ● EtherNet/IP | Yes |
| ● OPC UA Server | No |
| ● LLDP | Yes |
| ● Address Resolution Protocol (ARP) | Yes |
| ● SNMP | Yes |
| ● HTTPS | No |
| ● NTP | Yes |
| ● Media Redundancy Protocol (MRP) | No |
| **number of interfaces** | |
| ● according to PROFINET | 0 |
| ● according to PROFIBUS | 0 |
| ● according to Ethernet/IP | 2 |
| **product function** | |
| ● web server | Yes |
| ● shared device | No |
| ● at the Ethernet interface Autocrossover | Yes |
| ● at the Ethernet interface Autonegotiation | Yes |
| ● at the Ethernet interface Autosensing | Yes |
| ● is supported Device Level Ring (DLR) | Yes |
| ● is supported PROFINET system redundancy (S2) | No |
| ● supports PROFIenergy measured values | No |
| ● supports PROFIenergy shutdown | No |