SIEMENS

Data sheet

3UF7012-1AU00-0



Basic unit SIMOCODE pro V MR, MODBUS RTU interface 57.6 Kbps, RS 485, 4I/30 freely parameterizable, Us: 110...240 V AC/DC, input for thermistor connection Monostable relay outputs, expandable by extension modules

| product brand name | SIRIUS | | | |
|---|--------------------------------|--|--|--|
| product designation | Motor management system | | | |
| design of the product | basic unit 2 | | | |
| product type designation | SIMOCODE pro V MR | | | |
| 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 | | | |
| apparent power consumption | 8.3 V·A | | | |
| consumed active power | 3.6 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 | | | |

| (000) (| | | | | |
|--|---|--|--|--|--|
| • 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 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) | 01.05.2012 00:00:00 | | | | |
| certificate of suitability | | | | | |
| 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 burst acc. to he of 000-4-4 due to conductor-earth surge acc. to IEC 61000-4-5 | 2 kV | | | | |
| due to conductor-conductor surge acc. to IEC 01000-4-5 | 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 | | | | |
| | | | | | |
| 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 • parameterizable outputs | corresponds to degree of severity A Yes | | | | |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function • parameterizable inputs • parameterizable outputs number of inputs | corresponds to degree of severity A Yes Yes | | | | |
| field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function • parameterizable inputs • parameterizable outputs number of inputs • for thermistor connection | Corresponds to degree of severity A 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 | Corresponds to degree of severity A Yes Yes 4 1 4 | | | | |
| 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 | corresponds to degree of severity A Yes Yes 4 1 4 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 | Corresponds to degree of severity A 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 | Corresponds to degree of severity A 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 | Corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0 | | | | |
| 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 | Corresponds to degree of severity A 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 | Corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0 | | | | |
| 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 | corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0 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 switching behavior | corresponds to degree of severity A 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 outputs number of semiconductor outputs number of outputs as contact-affected switching element switching behavior type of relay outputs | corresponds to degree of severity A 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 | corresponds to degree of severity A 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 | corresponds to degree of severity A 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 • with conductor cross-section = 0.5 mm ² maximum | corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 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 with conductor cross-section = 0.5 mm ² maximum • with conductor cross-section = 2.5 mm ² maximum | corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 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 mm ² maximum • with conductor cross-section = 2.5 mm ² maximum Protective and monitoring functions | corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 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 • with conductor cross-section = 0.5 mm ² maximum • with conductor cross-section = 2.5 mm ² maximum • with conductor cross-section = 2.5 mm ² maximum Protective and monitoring functions product function | corresponds to degree of severity A 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 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 mm ² maximum • with conductor cross-section = 2.5 mm ² maximum • asymmetry detection | corresponds to degree of severity A 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 mm ² maximum • with conductor cross-section = 2.5 mm ² maximum With conductor cross-section = 2.5 mm ² maximum • with conductor cross-section = 2.5 mm ² maximum | corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0 0 3 monostable Monostable 300 m 50 m 150 m 250 m Yes 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 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 mm ² maximum • with conductor cross-section = 1.5 mm ² maximum • with conductor cross-section = 2.5 mm ² maximum | corresponds to degree of severity A 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 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 mm ² maximum • with conductor cross-section = 1.5 mm ² maximum • with conductor cross-section = 2.5 mm ² maximum • power factor monitoring • ground fault detection | corresponds to degree of severity A 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 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 mm ² maximum • with conductor cross-section = 1.5 mm ² maximum • with conductor cross-section = 2.5 mm ² maximum | corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m | | | | |

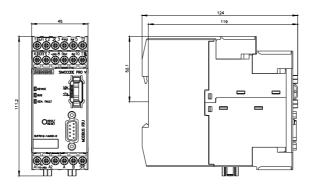
| | | No. |
|---|---|---------------|
| vervortage detection vervortage detec | voltage detection | Yes |
| • overcurrent datection 1 phase vis vis | | |
| undervoluge detectors undervoluge detectors active power monitoring ves active power monitoring ves versional or themistor motor protection ves versional or themistor motor protection ves total cold resistance number of sensors in series attantime of the short-ciocal control of control function of control function of control for short of control of control of control for short of control oble-changing switch circuit oble-changing switch circuit oble-changing switch circuit oble-changing switch circuit op control for supported PROFIBUS DP protocol notico on to supported PROFIBUS DP protocol protocol is supported PROFIBUS PROFIBUS PROFIBUS PROFIBUS PROFIBUS PROFIBUS PROFIBUS protocol is supported PROFIBUS PROFIBUS PROFIBU | - | |
| • undercurrent detection 1 phase Yes • active power monitoring Yes • overlad protection Yes • overlad relation 1 themoresistor 3 400 3 800 Ω • of the short-ficial control 9 Ω • overlad relation Yes • orient brancesistor 1 500 1 500 Ω • direct stat Yes • direct stat Yes • direct stat Yes • direct stat Yes • bahander reversing circuit Yes • pole-changing switch reversing circuit Yes • p | • | Yes |
| • active power monitoring Yes product function Yes • available protection Yes • available of thermistor motor protection Yes total cold resistance number of sensors in series 1.5 kD maximum 3 400 3 800 Ω • of the short-circuit control 9 0 • release value of thermoresistor 1500 1 650 Ω Mater centrol functions Yes • insult breaker control Yes • oble-changing switch circuit Yes • oble-changing switch circuit Yes • oble-changing switch circuit Yes • protocol is supported PROFINET to protocol | undervoltage detection | Yes |
| product function Yes • overlad protection 9.0 • overlad protection 9.0 • overlad protection 9.0 • overlad protection 1.55.0 • overlad protection 9.0 • overlad protection Yes • overlad protection Yes • overlad protection Yes • overlad proversign protection Yes • overlad protection Yes • overlad protection Yes • overlad protection Yes • overlad protectinate reversing cincuit Yes< | undercurrent detection 1 phase | Yes |
| • current detection Yes • orderbad protection Yes • evaluation of thermistor motor protection Yes total cold resistance number of sensors in series 1.5 kD response value of thermoresistor 3 400 3 800 D • of the short-could control 9 D refuesse value of thermoresistor 1500 1 850 Ω Motor control function 9 D • fordit thermistrable overhaad relay Yes • idraid theread control Yes • idraid there idraid Yes • idraid there idraid Yes • atra-deta crouid Yes • bahlander reversing circuit Yes • protocol is supported PROFIBUS DP protocol Yes • valve control Yes • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFIBUS DP protocol No • protocol is supported Abdress Resolution Protocol | active power monitoring | Yes |
| • everlag protection Yes • evaluation of thermistor of sonors in sories 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 Product functions 9 Ω • or dire short-circuit control 9 Ω • or dire short-circuit control 9 Ω • or arameterizable overload relay Yes • circuit bracker control Yes • direct start Yes • able control Yes • pole-changing witch circuit Yes • able control Yes • able control Yes • able control Yes • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFIBUS DP No | product function | |
| • evaluation of thermistor motor protection Yes total cold resistance number of sensors in series 1.5 kΩ response value of thermoresistor 3 400 3 800 Ω • of the short-circuit control 9 Ω release value of thermoresistor 1550 1550 Ω product functions Yes • parameterizable overload relay Yes • in the short-circuit control Yes • indire control functions Yes • indire control Yes • star-delia circuit Yes • pole-changing witch reversing circuit Yes • protecol is supported PROFIBUS DP protocol No • protocol is supported PROFIBUS DP protocol No • proto | current detection | Yes |
| India cold resistance number of sensors in series maximum 1.5 kΩ response value of thermoresistor 9 dQ • of the short-circuit control 9 D release value of thermoresistor 1500 1850 D Product functions yes • circuit breaker control Yes • circuit breaker control Yes • direct stat Yes • star-delta reversing circuit Yes • balander reversing circuit Yes • oble-changing switch circuit Yes • pole-changing switch circuit Yes • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFIBUS DP No • | overload protection | Yes |
| maximum stopper generation e of the short-circuit control 9 Ω release value of thermoresistor 1 500 1 650 Ω Motor control functions 9 Ω product function 9 Ω • parameterzable overload relay Yes • circuit breaker control Yes • direct stat Yes • darblander reversing circuit Yes • pole-changing switch reversing circuit Yes • pole-changing switch reversing circuit Yes • protocol is supported PROFINET to protocol No • protocol is supported PROFINET to protocol No • protocol is supported PROFINET to protocol No • protocol is supported Addres Resolution Protocol No • protocol is supported Addres Resolution Protocol No < | evaluation of thermistor motor protection | Yes |
| response value of thermoresistor 3 400 3 600 Ω • of the shot-circuit control 9 Ω release value of thermoresistor 1 500 1 650 Ω Motor control functions • parameterizable overload relay Yes • circuit breaker control Yes • direct start Yes • reverse starting Yes • star-delta crout Yes • star-delta crout Yes • bale ander reversing circuit Yes • Dahlander reversing circuit Yes • pole-changing switch circuit Yes • pole-changing switch reversing circuit Yes • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFIBUS DP protocol No • protocol is supported Notbus RTU Yes • protocol is supported Norbester Prevent No • protocol is supported NMP No <td< td=""><td></td><td>1.5 kΩ</td></td<> | | 1.5 kΩ |
| • of the short-circuit control 9 0 release value of thermoresistor 1500 1650 D Motor control functions • • parameterizable overload relay Yes • direct start Yes • adm-delia circuit Yes • Dahlander circuit Yes • Dahlander reversing circuit Yes • pole -changing switch reversing circuit Yes • pole -changing switch reversing circuit Yes • salve control Yes • salve control Yes • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFIBUS OP No • protocol is supported PROFIBUS OP No • protocol is supported PROFIBUS OP No • protocol is supported Nortex orter No • protocol is supported PROFIBUS OP No • protocol is supported NTP No < | | |
| release value of thermoresistor 1 500 1 650 Ω Motor control functions parameterizable overload relay parameterizable overload relay circuit breaker control direct start reverse starting star-delta crouti parameterizable overload relay direct start reverse starting star-delta crouti Star-delta reversing circuit Yes abhander circuit Dabinander reversing circuit Yes abhander reversing circuit Yes able-changing switch reversing circuit Yes able control Yes oble-changing switch reversing circuit Yes able control Yes optic-col is supported PROFIBUS DP protocol No protocol is supported PROFIBUS DP protocol protocol is supported PROFIBUS DP protocol protocol is supported PROFIBUS Protocol No protocol is supported PROFIBUS Protocol No protocol is supported PROFIBUS Protocol No protocol is supported PROFIBUS Protocol No protocol is supported PROFIBUS protocol is supported PROFIBUS aco: to PROFIBUS | • | |
| Motor control functions Constraint product function Yes • circuit breaker control Yes • direct stat Yes • direct stat Yes • star-delta circuit Yes • star-delta circuit Yes • star-delta circuit Yes • Dahlander circuit Yes • Dahlander reversing circuit Yes • Dale-changing switch reversing circuit Yes • pole-changing switch reversing circuit Yes • pole-changing switch reversing circuit Yes • subject-changing switch reversing circuit Yes • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFINET IO protocol No • protocol is supported PROFINET IO protocol No • protocol is supported PROFINET NO No • protocol is supported DROVENS Protocol No • protocol is supported Address Resolution Protocol No • protocol is supported PROFINET NO No • protocol is supported NPM No <td></td> <td></td> | | |
| product function • parameterizable overload relay Yes • circuit breaker control Yes • direct start Yes • reverse starting Yes • star-delta circuit Yes • Dahlander circuit Yes • Dahlander circuit Yes • Dahlander circuit Yes • Dahlander circuit Yes • pole-changing switch circuit Yes • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFIBUS No No • protocol is supported DPC UA Server No • protocol is supported Nodius RTU Yes • protocol is supported NNP No • | | 1 500 1 650 Ω |
| parameterizable overload relay icircuit breaker control Yes icircuit breaker control Yes icircuit breaker control Yes idrect start Yes istar-detta circuit Yes istar-detta circuit Yes bahlander circuit Yes Dahlander circuit Yes Dahlander reversing circuit Yes Dahlander reversing circuit Yes Dahlander reversing circuit Yes Dahlander reversing circuit Yes pole-changing switch reversing circuit Yes valve control volve control Ves volve control volve con | Motor control functions | |
| ercuit breaker control Ves edirect start Ves ercevers starting Ves star-delta circuit Dahlander circuit Dahlander circuit Dahlander circuit Dahlander circuit Dahlander circuit pole-changing switch reversing circuit valve control subde control valve control protocol is supported PROFIBUS DP protocol protocol is supported PROFIBUS Protocol protocol is supported PROFIBUS Protocol protocol is supported Address Resolution Protocol (ARP) protocol is supported NWP No | product function | |
| direct start reverse starting reverse starting | parameterizable overload relay | Yes |
| reverse starting Yes star-delta circuit Yes star-delta reversing circuit Yes Dahlander circuit Yes Dahlander reversing circuit Yes Dahlander reversing circuit Yes pole-changing switch reversing circuit Yes slide control Yes solde control Yes communication/ Protocol Yes rotocol is supported PROFIBUS DP protocol No protocol is supported DPC VIA Server No protocol is supported DPC VIA Server No protocol is supported Address Resolution Protocol No protocol is supported Address Resolution Protocol No protocol is supported Address Resolution Protocol No protocol is supported SIMP No protocol is supported Address Resolution Protocol No protocol is supported MTPS No protocol is supported MTP No protocol is supported MEdia Redundancy Protocol No (MRP) protocol is supported MEDI No protocol is supported ND protocol is supported ND protocol is supported ND protocol is supported MEDI NO protocol is supported ND protocol is suppor | circuit breaker control | Yes |
| • star-delta circuit Yes • star-delta reversing circuit Yes • Dahlander circuit Yes • Dahlander reversing circuit Yes • pole-changing switch circuit Yes • protocol supported PROFIBUS DP protocol No • protocol is supported Modus RTU Yes • protocol is supported LLP No • protocol is supported AttrPS No • protocol is supported AttrPS No • protocol is supported MrDP No • pro | direct start | Yes |
| star-delta reversing circuit Yes Dahlander circuit Yes Dahlander reversing circuit Yes pole-changing switch circuit Yes pole-changing switch reversing circuit Yes viale control Yes viale control Yes valve cont Yes valve control Yes valve control Yes valve contrev | reverse starting | Yes |
| Dahlander circuit Yes Dahlander reversing circuit Yes pole-changing switch circuit Yes valve control Protocol is supported PROFIBUS DP protocol valve control protocol is supported PROFIBUS DP protocol protocol is supported PROFIBET IO protocol protocol is supported PROFIBET IO protocol protocol is supported PROFIBUS DP protocol protocol is supported PROFIBET IO protocol protocol is supported Chadress Resolution protocol is supported LtDP No protocol is supported LtDP No protocol is supported SNMP No protocol is supported SNMP No protocol is supported Media Redundancy Protocol (ARP) protocol is supported Media Redundancy Protocol (MRP) protocol is supported Device Level Ring (DLR) protocol is supported Device Level Ring (DLR) protocol is supported Device Level Ring (DLR) protocol is upported Device Level Ring (DLR) protocol is thermet/IP 0 accc: to PROFINET 0 accc to PROFINET 0 acccroing to Modbus RTU 1 product function web server No at the Ethernet interface Autorcosover No at the Ethernet interface Autorcosover No at the Ethernet interface Autorcosover No supported PROFINET System redundancy No supports PROFINET System redundancy No | • star-delta circuit | Yes |
| Dahlander reversing circuit Yes pole-changing switch circuit Yes pole-changing switch reversing circuit Yes valve control Yes valve control Yes Yes Communication/ Protocol protocol is supported PROFIBUS DP protocol protocol is supported PROFIBUR TIU res protocol is supported PROFIBUR TIU res protocol is supported EtherNet/IP No protocol is supported CHERNET No protocol is supported Address Resolution Protocol No protocol is supported Address Resolution Protocol (ARP) protocol is supported Address Resolution Protocol (MRP) protocol is supported Media Redundancy Protocol (MRP) protocol is supported Device Level Ring (DLR) routed function is supported Device Level Ring (DLR) routed function acc. to PROFIBUS 0 according to Ethernet/IP 0 according to Ethernet/IP veb server No supported ROF No supported Media Redundancy Protocol web server No state device No at the Ethernet interface Autocrossover No state device No at the Ethernet interface Autocrossover No supported PROFIET NO supported PROFIET NO supported PROFIEU No No Supported PROFIEU No No No Supported PROFIEU No NO | star-delta reversing circuit | Yes |
| pole-changing switch circuit Yes pole-changing switch reversing circuit Yes slide control Yes valve control Yes valve control volue-control volue-control protocol is supported PROFIBUS DP protocol protocol is supported PROFIBUS PROFINET IO protocol protocol is supported PROFISE protocol protocol is supported DROFISE protocol protocol is supported DPC VLA Server No protocol is supported Address Resolution Protocol (ARP) protocol is supported Address Resolution Protocol (MRP) protocol is supported MTPP No protocol is supported MTPP No protocol is supported Media Redundancy Protocol (MRP) protocol is supported Media Redundancy Protocol (MRP) protocol is supported Device Level Ring (DLR) (DLR) is upported Media Redundancy Protocol (MRP) oroduct function is supported Device Level Ring (DLR) is upported Media Redundancy Protocol No is cocroling to Ethernet/IP 0 according to Modus RTU 1 product function web server No shared device No at the Ethernet interface Autocrossover No at the Ethernet interface Autocrossover No supported PROFIENT System redundary No | - | Yes |
| | Dahlander reversing circuit | Yes |
| | - | Yes |
| • silde control Yes • valve control Yes Communication/ Protocol • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFISATE protocol • protocol is supported PROFISATE protocol No • protocol is supported PROFISATE protocol • protocol is supported CB EnterNet/IP No • protocol is supported CDP UA Server • protocol is supported CLDP No • protocol is supported Address Resolution Protocol (ARP) • protocol is supported NMP No • protocol is supported NMP No • protocol is supported NTP • protocol is supported NTP No • protocol is supported NTP • protocol is supported NTP No • protocol is supported NTP • protocol is supported NTP No • protocol is supported NTP • protocol is supported NTP No • protocol is supported NTP • protocol is supported NTP No • protocol is supported NTP • product function is supported NTP No • protocol is supported NTP • product function is supported NON No • protocol is suporte | | Yes |
| • valve control Yes Communication/ Protocol No • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFINET IO protocol No • protocol is supported PROFINET IO protocol No • protocol is supported PROFINET IO protocol No • protocol is supported CHerNet/IP No • protocol is supported CHERNET/IP No • protocol is supported LLDP No • protocol is supported LLDP No • protocol is supported SMMP No • protocol is supported MTPS No • protocol is supported Protocol No • protocol is supported NTP No • protocol is supported NTP No • protocol is supported Device Level Ring (DLR) No • protocol is supported Device Level Ring No (DLR) 0 - • acc. to PROFINET 0 - • according to Ethernet/IP 0 - • according to Ethernet/IP 0 - • according to Ethernet/IP 0 - • accordi | | |
| Communication/ Protocol 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 CLDP protocol is supported DPC UA Server protocol is supported LDP protocol is supported Address Resolution Protocol protocol is supported SNMP protocol is supported NTP protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) protocol is supported Device Level Ring (DLR) protocol function is supported Device Level Ring (DLR) acc. to PROFINET acc. to PROFINET according to Ethernet/IP according to Modbus RTU the Ethernet interface Autocrossover No at the Ethernet interface Autocrossover No at the Ethernet interface Autocrossover No at the Ethernet interface Autocrossover No supported PROFINET system redundancy No | | |
| | | |
| • protocol is supported PROFINET IO protocolNo• protocol is supported PROFIsafe protocolNo• protocol is supported Modus RTUYes• protocol is supported EtherNet/IPNo• protocol is supported CPC UA ServerNo• protocol is supported Address Resolution ProtocolNo• protocol is supported SNMPNo• protocol is supported SNMPNo• protocol is supported TPTPSNo• protocol is supported Media Redundancy ProtocolNo• protocol is supported Device Level Ring (MRP)No• protocol is supported Device Level Ring (DLR)No• acc. to PROFINET0• acc. to PROFINET0• according to Ethernet/IP0• according to Ethernet/IP0• according to Modus RTU1• protocol is supported NTPNo• according to Ethernet/IP0• according to Modus RTU1• according to Modus RTU1• according to Modus RTU1• according to Modus RTU0• according to Modus RTU1• according to Modus RTU1• according to Modus RTU0• according to Modus RTUNo• according to Modus RTUNo• according to Modus RTUNo• at the Ethernet interface AutocrossoverNo• at the Ethernet interface Autocrosso | | |
| | | |
| • protocol is supported Modbus RTUYes• protocol is supported EtherNet/IPNo• protocol is supported CLDPNo• protocol is supported LLDPNo• protocol is supported Address Resolution Protocol (ARP)No• protocol is supported SNMPNo• protocol is supported HTTPSNo• protocol is supported Media Redundancy Protocol (MRP)No• protocol is supported Media Redundancy Protocol (MRP)No• protocol is supported Device Level Ring (DLR)No• protocol is supported NTPO• acc. to PROFINET0• acc. to PROFINET0• according to Ethernet/IPO• according to Modbus RTU1 product function 1• web serverNo• shared deviceNo• at the Ethernet interface AutoressoverNo• at the Ethernet interface AutoressingNo• at the Ethernet interface Autoressing <t< td=""><td></td><td></td></t<> | | |
| • protocol is supported EtherNet/IPNo• protocol is supported OPC UA ServerNo• protocol is supported LDPNo• protocol is supported Address Resolution Protocol (ARP)No• protocol is supported Address Resolution Protocol (ARP)No• protocol is supported NMPNo• protocol is supported NTPNo• protocol is supported Media Redundancy Protocol (MRP)No• protocol is supported Media Redundancy Protocol (MRP)No• protocol is supported Device Level Ring (DLR)No• protocol function is supported Device Level Ring (DLR)No• acc. to PROFINET0• acc. to PROFINET0• according to Ethernet/IP0• according to Modus RTU1• web serverNo• web serverNo• shared deviceNo• at the Ethernet interface AutocrossoverNo• is supported PROFINET system redundancyNo• supports PROFINET system redundancy< | | |
| protocol is supported OPC UA Server protocol is supported LLDP No protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported NTP No protocol is supported Media Redundancy Protocol (MRP) protocol is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET 0 according to Ethernet/IP 0 according to Ethernet/IP veb server web server shared device No shared device at the Ethernet interface Autonegotiation vo at the Ethernet interface Autosensing No supported PROFINET system redundancy No vo | | Yes |
| Protocol is supported LLDP No protocol is supported Address Resolution Protocol (ARP) No protocol is supported SNMP No protocol is supported HTTPS No protocol is supported MTP No protocol is supported Media Redundancy Protocol (MRP) vproduct function is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET 0 acc. to PROFIBUS 0 according to Ethernet/IP 0 according to Ethernet/IP No shared device No shared device No at the Ethernet interface Autorossover at the Ethernet interface Autorossover at the Ethernet interface Autosensing No at the Ethernet interface Autosensing No supports PROFINET system redundancy No supports PROFINET system redundancy No | | No |
| protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP No protocol is supported HTTPS No protocol is supported MTP No protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) romber of interfaces acc. to PROFINET 0 acc. to PROFIBUS 0 according to Ethernet/IP 0 according to Modbus RTU 1 product function web server No shared device No at the Ethernet interface Autocrossover at the Ethernet interface Autocognition supported PROFINET system redundancy No is supported PROFINET system redundancy No | | No |
| (ÅRP)No• protocol is supported SNMPNo• protocol is supported HTTPSNo• protocol is supported NTPNo• protocol is supported Media Redundancy Protocol (MRP)No• product function is supported Device Level Ring (DLR)No• acc. to PROFINET0• acc. to PROFINET0• acc. to PROFIBUS0• according to Ethernet/IP0• according to Modbus RTU1• web serverNo• shared deviceNo• at the Ethernet interface AutocrossoverNo• at the Ethernet interface AutonegotiationNo• at the Ethernet interface AutosensingNo• is supported PROFINET system redundancyNo• supported PROFINET system redundancyNo• supported PROFINET spaceNo• supported there interface AutolesensingNo• supported PROFINET system redundancyNo• supported PROFINET system redundancyNo• supported PROFINET system redundancyNo• supported PROFINET spaceNo• supported PROFINET system redundancyNo• supported PROFINET spaceNo• supported PROFINET space <td> protocol is supported LLDP </td> <td>No</td> | protocol is supported LLDP | No |
| Protocol is supported HTTPS No Protocol is supported NTP No Protocol is supported Media Redundancy Protocol (MRP) Product function is supported Device Level Ring (DLR) No acc. to PROFINET 0 acc. to PROFIBUS 0 according to Ethernet/IP according to Modbus RTU 1 product function web server No shared device No at the Ethernet interface Autorossover No at the Ethernet interface Autonegotiation No supported PROFINET system redundancy No supported PROFINET system redundancy No | | No |
| Protocol is supported HTTPS No Protocol is supported NTP No Protocol is supported Media Redundancy Protocol (MRP) Product function is supported Device Level Ring (DLR) No rumber of interfaces acc. to PROFINET 0 according to Ethernet/IP according to Modbus RTU 1 product function web server No shared device No at the Ethernet interface Autorossover No at the Ethernet interface Autonegotiation No supported PROFINET system redundancy No supported PROFINET system redundancy No | | No |
| Protocol is supported NTP No protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET 0 according to Ethernet/IP 0 according to Modbus RTU 1 product function web server No shared device No at the Ethernet interface Autocrossover No is supported PROFINET system redundancy No supports PROFIenergy measured values No | | No |
| Protocol is supported Media Redundancy Protocol (MRP) Product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET 0 acc. to PROFIBUS 0 according to Ethernet/IP 0 according to Modbus RTU 1 product function web server No shared device No at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation No at the Ethernet interface Autosensing No is supported PROFINET system redundancy No supports PROFIenergy measured values No | | |
| • product function is supported Device Level Ring (DLR)Nonumber of interfaces• acc. to PROFINET0• acc. to PROFIBUS0• according to Ethernet/IP0• according to Modbus RTU1product function1• web serverNo• shared deviceNo• at the Ethernet interface AutocrossoverNo• is supported PROFINET system redundancyNo• supports PROFIenergy measured valuesNo | protocol is supported Media Redundancy Protocol | |
| number of interfaces• acc. to PROFINET0• acc. to PROFIBUS0• according to Ethernet/IP0• according to Modbus RTU1product function1• web serverNo• shared deviceNo• at the Ethernet interface AutocrossoverNo• at the Ethernet interface AutosensingNo• at the Ethernet interface AutosensingNo• at the Ethernet interface AutosensingNo• is supported PROFINET system redundancyNo• supports PROFlenergy measured valuesNo | product function is supported Device Level Ring | No |
| acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP according to Modbus RTU according to Modbus RTU product function web server shared device at the Ethernet interface Autocrossover At the Ethernet interface Autonegotiation No at the Ethernet interface Autosensing No supported PROFINET system redundancy supports PROFIenergy measured values No | | |
| • acc. to PROFIBUS0• according to Ethernet/IP0• according to Modbus RTU1• product function• web serverNo• shared deviceNo• at the Ethernet interface AutocrossoverNo• at the Ethernet interface AutonegotiationNo• at the Ethernet interface AutosensingNo• is supported PROFINET system redundancyNo• supports PROFlenergy measured valuesNo | | 0 |
| • according to Ethernet/IP0• according to Modbus RTU1product function• web serverNo• shared deviceNo• at the Ethernet interface AutocrossoverNo• at the Ethernet interface AutonegotiationNo• at the Ethernet interface AutosensingNo• is supported PROFINET system redundancyNo• supports PROFlenergy measured valuesNo | | |
| • according to Modbus RTU1product functionNo• web serverNo• shared deviceNo• at the Ethernet interface AutocrossoverNo• at the Ethernet interface AutocrossoverNo• at the Ethernet interface AutocrossoverNo• at the Ethernet interface AutosensingNo• is supported PROFINET system redundancyNo• supports PROFlenergy measured valuesNo | | |
| product functionNo• web serverNo• shared deviceNo• at the Ethernet interface AutocrossoverNo• at the Ethernet interface AutonegotiationNo• at the Ethernet interface AutosensingNo• at the Ethernet interface AutosensingNo• is supported PROFINET system redundancyNo• supports PROFlenergy measured valuesNo | - | |
| • web serverNo• shared deviceNo• at the Ethernet interface AutocrossoverNo• at the Ethernet interface AutonegotiationNo• at the Ethernet interface AutosensingNo• is supported PROFINET system redundancyNo• supports PROFlenergy measured valuesNo | - | |
| shared device shared device at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation at the Ethernet interface Autosensing is supported PROFINET system redundancy supports PROFlenergy measured values No | - | Ne |
| at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation at the Ethernet interface Autosensing is supported PROFINET system redundancy supports PROFIenergy measured values No | | |
| • at the Ethernet interface AutonegotiationNo• at the Ethernet interface AutosensingNo• is supported PROFINET system redundancyNo• supports PROFlenergy measured valuesNo | | |
| • at the Ethernet interface AutosensingNo• is supported PROFINET system redundancyNo• supports PROFIenergy measured valuesNo | | |
| is supported PROFINET system redundancy No supports PROFIenergy measured values No | - | |
| supports PROFlenergy measured values No | - | No |
| | | No |
| supports PROFlenergy shutdown No | supports PROFlenergy measured values | No |
| | supports PROFlenergy shutdown | No |

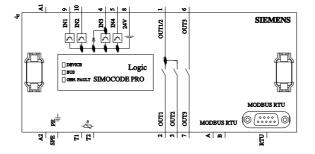
| | - | | | | |
|--|--|--|--|--|--|
| transfer rate maximum | 0.057 Mbit/s | | | | |
| identification & maintenance function | | | | | |
| I&M0 - device-specific information | Yes | | | | |
| I&M1 – higher level designation/location designation | Yes | | | | |
| I&M2 - installation date | Yes | | | | |
| I&M3 - comment | Yes | | | | |
| type of electrical connection of the communication interface | 9-pin D-sub socket (57.6 Kbit) / screw terminal (57.6 Kbit) | | | | |
| 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 mm ²), 2x (0.5 1.5 mm ²) | | | | |
| at AWG cables solid | 1x (20 12), 2x (20 14) | | | | |
| 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 mm², AWG 22 | | | | |
| | | | | | |
| | | | | | |
| Ambient conditions | | | | | |
| Ambient conditions installation altitude at height above sea level | 2 000 m | | | | |
| Ambient conditions | 2 000 m 3 000 m: max. +50 °C (no protective separation) | | | | |
| Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum | 3 000 m; max. +50 °C (no protective separation) | | | | |
| Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum | | | | | |
| Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature | 3 000 m; max. +50 °C (no protective separation) | | | | |
| Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) | | | | |
| Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C | | | | |
| Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C | | | | |
| Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C | | | | |
| Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), | | | | |
| Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature during operation during storage during transport environmental category during operation acc. to IEC 60721 | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), | | | | |
| Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature during operation during storage during transport environmental category during operation acc. to IEC 60721 during storage acc. to IEC 60721 | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 | | | | |
| Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature during operation during storage during transport environmental category oduring storage acc. to IEC 60721 oduring transport acc. to IEC 60721 | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 | | | | |
| Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 relative humidity | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 | | | | |
| Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % | | | | |
| Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during operation • during transport acc. to IEC 60721 | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % | | | | |
| Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature during operation during storage during transport environmental category oduring storage acc. to IEC 60721 eduring transport acc. to IEC 60721 eduring transport acc. to IEC 60721 oduring operation contact rating of auxiliary contacts according to UL Short-circuit protection | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300 Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature | | | | |
| Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during operation • during operation • during transport acc. to IEC 60721 • during operation • during transport acc. to IEC 60721 • during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300 Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature | | | | |
| Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Safety related data | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300 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) | | | | |
| Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Safety related data touch protection against electrical shock Galvanic isolation (electrically) protective separation acc. to IEC 60947-1 | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300 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) | | | | |
| Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Safety related data touch protection against electrical shock Galvanic isolation | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300 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) finger-safe All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, | | | | |
| Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Safety related data touch protection against electrical shock Galvanic isolation (electrically) protective separation acc. to IEC 60947-1 | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300 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) finger-safe All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, | | | | |
| Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature 0 during operation 0 during storage 0 during transport environmental category 0 during operation acc. to IEC 60721 0 during storage acc. to IEC 60721 0 during transport acc. to IEC 60721 0 during operation 0 during operation 0 during operation 0 during operation acc. to IEC 60721 • during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Safety related data touch protection against electrical shock Galvanic isolation (electrically) protective separation acc. to IEC 60947-1 | 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300 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) finger-safe 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 supply volta | - | | | | | | |
|---|-----------------------------|---------------------------|------------------------|------------------------------|---|---|--|
| • at 50 Hz rated value | | | 110 240 V 110 240 V | | | | |
| at 60 Hz rated v control supply volta | | | 110 | . 240 V | | | |
| • 1 rated value | genequency | | 50 Hz | | | | |
| • 2 rated value | | | 60 Hz | | | | |
| relative symmetrical voltage frequency | tolerance of the contro | ol supply | 5 % | | | | |
| control supply volta • rated value | ge at DC | | 110 | . 240 V | | | |
| | tor control supply volta | ge rated | | 110 240 V | | | |
| initial value | | | 0.85 | 0.85 | | | |
| full-scale value | | | 1.1 | 1.1 | | | |
| value at AC at 50 Hz | or control supply volta | ge rated | 0.05 | | | | |
| initial value full-scale value | | | 0.85 1.1 | | | | |
| | or control supply volta | ge rated | | | | | |
| initial value | | | 0.85 | | | | |
| • full-scale value | | | 1.1 | | | | |
| Certificates/ approval | S | | | | | | |
| General Product Ap | proval | | | | EMC | For use in hazard- ous locations | |
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| IECE× | IECEx | (Ex ATEX | | CE EG-Konf. | <u>Special Test Certific-</u> <u>ate</u> | Type Test Certific- ates/Test Report | |
| Test Certificates | Marine / Shipping | | | | | other | |
| Special Test Certific- ate | ABS | Lloyds Register uis | | RMRS RMRS | DNV-GL | <u>Confirmation</u> | |
| other | | | | | | | |
| 0000 | PROFINET-Certific- ation | | | | | | |
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| Further information | | | | | | | |
| https://www.siemens. Industry Mall (Online | | | | | | | |
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http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7012-1AU00-0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UF7012-1AU00-0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7012-1AU00-0&lang=en Test report No. A0258, protective separation

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





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