## SIEMENS

## Data sheet

## 6ES7212-1HF50-0XB0

|   | SIMATIC S7-1200 G2: failsafe compact CPU 1212FC DC/DC/RLY; power supply:<br>DC 20.4-28.8 V DC; onboard I/O: 8x DI 24 V DC; 6 DO relay 2 A; memory:<br>program 200 KB data: 500 KB, retentivity: 20 KB |
|---|---|
| General information   |   |
| Product type designation  | CPU 1212FC DC/DC/Relay  |
| Firmware version  | V1.0  |
| Product function  |   |
| ● I&M data  | Yes; I&M0 to I&M3   |
| • SysLog  | Yes   |
| Engineering with  |   |
| Programming package   | STEP 7 V20 or higher  |
| Supply voltage  |   |
| Rated value (DC)  |   |
| • 24 V DC   | Yes   |
| permissible range, lower limit (DC)   | 20.4 V  |
| permissible range, upper limit (DC)   | 28.8 V  |
| Reverse polarity protection   | Yes   |
| Input current   |   |
| Current consumption (rated value)   | 185 mA; CPU only  |
| Current consumption, max.   | 765 mA; CPU with all expansion modules  |
| Inrush current, max.  | 12 A; at 28.8 V DC  |
| <sup>2</sup> t  | 0.5 A <sup>2</sup> ·s   |
| Output current  |   |
| for backplane bus (5 V DC), max.  | 1 000 mA; Max. 5 V DC for SM and CM   |
| Encoder supply  |   |
| 24 V encoder supply   |   |
| • 24 V  | Yes; L+ minus 4 V DC min.   |
| Short-circuit protection  | Yes   |
| Output current, max.  | 300 mA  |
| Power loss  |   |
| Power loss, typ.  | 3 W   |
| Memory  | 5 W   |
|   |   |
| Work memory   | 700 kbyte   |
| • integrated  |   |
| <ul> <li>integrated (for program)</li> <li>integrated (for data)</li> </ul> | 200 kbyte   |
| integrated (for data)     Load memory                                       | 500 kbyte   |
| integrated  | 8 Mbyte   |
| -   |   |
| Plug-in (SIMATIC Memory Card), max.   | 32 Gbyte; with SIMATIC memory card  |
| Backup  | Vec   |
| • present   | Yes   |
| maintenance-free  | Yes   |
| without battery   | Yes   |
| CPU processing times  |   |
| for bit operations, typ.  | 37 ns; / instruction  |
| for word operations, typ.   | 30 ns; / instruction  |
| for floating point arithmetic, typ.   | 74 ns; / instruction  |
| CPU-blocks  |   |
| Number of elements (total)  | 4 000; Blocks (OB, FB, FC, DB) and UDTs   |
| OB  |   |
| Number of free cycle OBs  | 100   |
| Number of time alarm OBs  | 20  |
| <ul> <li>Number of delay alarm OBs</li> </ul>                               | 20  |

| <ul> <li>Number of cyclic interrupt OBs</li> </ul>                  | 20; with minimum OB 3x cycle of 1 ms  |
|---|---|
| <ul> <li>Number of process alarm OBs</li> </ul>                     | 50  |
| <ul> <li>Number of DPV1 alarm OBs</li> </ul>                        | 3   |
| <ul> <li>Number of isochronous mode OBs</li> </ul>                  | 1   |
| Number of startup OBs   | 100   |
| <ul> <li>Number of asynchronous error OBs</li> </ul>                | 4   |
| <ul> <li>Number of synchronous error OBs</li> </ul>                 | 2   |
| Number of diagnostic alarm OBs                                      | 1   |
| Data areas and their retentivity                                    |   |
| Retentive data area (incl. timers, counters, flags), max.           | 20 kbyte  |
| Flag  |   |
| • Size, max.  | 8 kbyte; Size of bit memory address area  |
| Local data  |   |
| per priority class, max.  | 64 kbyte; max. 16 KB per block  |
| Address area  |   |
|   |   |
| Process image   |   |
| Inputs, adjustable  | 1 kbyte   |
| Outputs, adjustable   | 1 kbyte   |
| Hardware configuration  |   |
| Number of modules per system, max.                                  | 6   |
| Time of day   |   |
| Clock   |   |
| <ul> <li>Hardware clock (real-time)</li> </ul>                      | Yes   |
| Backup time   | 480 h; Typical  |
| <ul> <li>Deviation per day, max.</li> </ul>                         | 2 s; at 25 °C   |
| Digital inputs  |   |
| Number of digital inputs  | 8; Integrated   |
| of which inputs usable for technological functions                  | 8; HSC (High Speed Counting)  |
| Source/sink input   | Yes   |
| Number of simultaneously controllable inputs                        | 100   |
| all mounting positions  |   |
| — up to 40 °C, max.   | 8   |
| Input voltage   | 0   |
|   | 24.17   |
| Rated value (DC)  | 24 V  |
| • for signal "0"  | 5 V DC or 0.5 mA  |
| • for signal "1"  | 15 V DC at 2.5 mA   |
| Input delay (for rated value of input voltage)                      |   |
| for standard inputs   |   |
| — parameterizable   | 0.1/0.2/0.4/0.8/1.6/3.2/6.4/10.0/12.8/20.0 µs; 0.05/0.1/0.2/0.4/  |
| at "0" to "4" min   | 0.8 / 1.6 / 3.2 / 6.4 / 10.0 / 12.8 / 20.0 ms   |
| — at "0" to "1", min.   | 0.1 μs  |
| — at "0" to "1", max.   | 20 ms   |
| for interrupt inputs  | Ver   |
| — parameterizable   | Yes   |
| for technological functions   |   |
| — parameterizable   | single phase: 6 HSCs @ 100 kHz & 2 standard @ 30 kHz, quadrature phase: 6 HSCs @ 80 kHz & 2 standard @ 20 kHz |
| Cable length  |   |
|   | 500 m; 50 m for toobhological functions   |
| shielded, max.  | 500 m; 50 m for technological functions   |
| • unshielded, max.  | 300 m; for technological functions: No  |
| Digital outputs   |   |
| Number of digital outputs   | 6; Relays   |
| Switching capacity of the outputs                                   |   |
| <ul> <li>with resistive load, max.</li> </ul>                       | 2 A   |
| <ul> <li>on lamp load, max.</li> </ul>                              | 30 W with DC, 200 W with AC   |
| Output delay with resistive load                                    |   |
| • "0" to "1", max.  | 10 ms; max.   |
| • "1" to "0", max.  | 10 ms; max.   |
| Switching frequency   |   |
| <ul> <li>of the pulse outputs, with resistive load, max.</li> </ul> | Not recommended   |
| Relay outputs   |   |
|   |   |

| <ul> <li>Number of relay outputs</li> </ul>  | 6  |
|--|--|
| <ul> <li>Number of operating cycles, max.</li> </ul>   | o<br>mechanically 10 million, at rated load voltage 100 000  |
| Cable length   | meenameany to minion, at rated load voltage 100 000  |
| • shielded, max.   | 500 m  |
| • unshielded, max.   | 150 m  |
| Analog inputs  | 100 111  |
| Number of analog inputs  | 0  |
| Analog outputs   | 0  |
| Number of analog outputs   | 0  |
| Encoder  | 0  |
| Connectable encoders   |  |
| 2-wire sensor  | Yes  |
| 1. Interface   |  |
| Interface type   | PROFINET   |
| Isolated   | Yes  |
| automatic detection of transmission rate   | Yes  |
| Autonegotiation  | Yes  |
| Autocrossing   | Yes  |
| Interface types  |  |
| • RJ 45 (Ethernet)   | Yes  |
| Number of ports  | 2  |
| integrated switch  | Yes  |
| Protocols  |  |
| IP protocol  | Yes; IPv4  |
| PROFINET IO Controller   | Yes  |
| PROFINET IO Device   | Yes  |
| <ul> <li>SIMATIC communication</li> </ul>  | Yes  |
| Open IE communication  | Yes; Optionally also encrypted   |
| Web server   | Yes  |
| Media redundancy   | Yes  |
| PROFINET IO Controller   |  |
|  |  |
| Transmission rate, max.  | 100 Mbit/s   |
|  | 100 Mbit/s   |
| Transmission rate, max.  | 100 Mbit/s<br>Yes; encryption with TLS V1.3 pre-selected   |
| Transmission rate, max. Services   |  |
| Transmission rate, max. Services     — PG/OP communication   | Yes; encryption with TLS V1.3 pre-selected   |
| Transmission rate, max.     Services     — PG/OP communication     — Isochronous mode  | Yes; encryption with TLS V1.3 pre-selected<br>Yes  |
| Transmission rate, max. Services     — PG/OP communication     — Isochronous mode     — IRT  | Yes; encryption with TLS V1.3 pre-selected<br>Yes<br>Yes   |
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| Transmission rate, max. Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Prioritized startup  | Yes; encryption with TLS V1.3 pre-selected<br>Yes<br>Yes<br>Yes; per user program<br>Yes   |
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| <ul> <li>Transmission rate, max.</li> <li>Services         <ul> <li>PG/OP communication</li> <li>Isochronous mode</li> <li>IRT</li> <li>PROFlenergy</li> <li>Prioritized startup</li> <li>Number of IO devices with prioritized startup, max.</li> <li>Number of connectable IO Devices, max.</li> <li>Of which IO devices with IRT, max.</li> <li>Number of connectable IO Devices for RT, max.</li> <li>of which II devices with IRT, max.</li> <li>Number of connectable IO Devices for RT, max.</li> <li>of which in line, max.</li> <li>Activation/deactivation of IO Devices</li> <li>Number of IO Devices that can be simultaneously activated/deactivated, max.</li> <li>Updating time</li> </ul> </li> <li>Update time for IRT         <ul> <li>for send cycle of 1 ms</li> <li>for send cycle of 4 ms</li> <li>Update time for RT</li> <li>for send cycle of 1 ms</li> <li>for send cycle of 1 ms</li> <li>for send cycle of 1 ms</li> <li>for send cycle of 2 ms</li> <li>for send cycle of 2 ms</li> <li>for send cycle of 1 ms</li> <li>for send cycle of 2 ms</li> <li>for send cycle of 1 ms</li> <li>for send cycle of 2 ms</li> </ul> </li> </ul> | Yes; encryption with TLS V1.3 pre-selected<br>Yes<br>Yes; per user program<br>Yes<br>16<br>31<br>31<br>31<br>31<br>31<br>31<br>32<br>8<br>The minimum value of the update time also depends on the communication<br>component set for PROFINET IO, on the number of IO devices and the quantity<br>of configured user data.                    |
| <ul> <li>Transmission rate, max.</li> <li>Services         <ul> <li>PG/OP communication</li> <li>Isochronous mode</li> <li>IRT</li> <li>PROFlenergy</li> <li>Prioritized startup</li> <li>Number of IO devices with prioritized startup, max.</li> <li>Number of connectable IO Devices, max.</li> <li>Of which IO devices with IRT, max.</li> <li>Number of connectable IO Devices for RT, max.</li> <li>of which in line, max.</li> <li>Activation/deactivation of IO Devices</li> <li>Number of IO Devices that can be simultaneously activated/deactivated, max.</li> <li>Update time for IRT</li> <li>for send cycle of 1 ms</li> <li>for send cycle of 2 ms</li> <li>for send cycle of 1 ms</li> <li>for send cycle of 1 ms</li> <li>for send cycle of 1 ms</li> <li>for send cycle of 2 ms</li> <li>for send cycle of 1 ms</li> <li>for send cycle of 2 ms</li> <li>for send cycle of 2 ms</li> <li>for send cycle of 2 ms</li> <li>for send cycle of 4 ms</li> </ul> </li> </ul>   | Yes; encryption with TLS V1.3 pre-selected<br>Yes<br>Yes; per user program<br>Yes<br>16<br>31<br>31<br>31<br>31<br>31<br>31<br>32<br>8<br>The minimum value of the update time also depends on the communication<br>component set for PROFINET IO, on the number of IO devices and the quantity<br>of configured user data.                    |
| <ul> <li>Transmission rate, max.</li> <li>Services         <ul> <li>PG/OP communication</li> <li>Isochronous mode</li> <li>IRT</li> <li>PROFlenergy</li> <li>Prioritized startup</li> <li>Number of IO devices with prioritized startup, max.</li> <li>Number of connectable IO Devices, max.</li> <li>Of which IO devices with IRT, max.</li> <li>Number of connectable IO Devices for RT, max.</li> <li>of which in line, max.</li> <li>Activation/deactivation of IO Devices</li> <li>Number of IO Devices that can be simultaneously activated/deactivated, max.</li> <li>Update time for IRT</li> <li>for send cycle of 1 ms</li> <li>for send cycle of 2 ms</li> <li>for send cycle of 1 ms</li> <li>for send cycle of 1 ms</li> <li>for send cycle of 2 ms</li> <li>for send cycle of 2 ms</li> <li>for send cycle of 4 ms</li> </ul> </li> <li>Update time for RT         <ul> <li>for send cycle of 2 ms</li> <li>for send cycle of 4 ms</li> </ul> </li> <li>Update time for RT</li> <li>for send cycle of 4 ms</li> <li>PROFINET IO Device</li> </ul>   | Yes; encryption with TLS V1.3 pre-selected<br>Yes<br>Yes; per user program<br>Yes<br>16<br>31<br>31<br>31<br>31<br>31<br>31<br>32<br>8<br>The minimum value of the update time also depends on the communication<br>component set for PROFINET IO, on the number of IO devices and the quantity<br>of configured user data.                    |
| <ul> <li>Transmission rate, max.</li> <li>Services         <ul> <li>PG/OP communication</li> <li>Isochronous mode</li> <li>IRT</li> <li>PROFlenergy</li> <li>Prioritized startup</li> <li>Number of IO devices with prioritized startup, max.</li> <li>Number of connectable IO Devices, max.</li> <li>Of which IO devices with IRT, max.</li> <li>Number of connectable IO Devices for RT, max.</li> <li>Of which In line, max.</li> <li>Activation/deactivation of IO Devices</li> <li>Number of IO Devices that can be simultaneously activated/deactivated, max.</li> <li>Update time for IRT</li> <li>for send cycle of 1 ms</li> <li>for send cycle of 2 ms</li> <li>for send cycle of 1 ms</li> <li>for send cycle of 1 ms</li> <li>for send cycle of 2 ms</li> <li>for send cycle of 2 ms</li> <li>for send cycle of 4 ms</li> </ul> </li> <li>PROFINET IO Device</li> <li>Services</li> </ul>   | Yes; encryption with TLS V1.3 pre-selected<br>Yes<br>Yes; per user program<br>Yes<br>16<br>31<br>31<br>31<br>31<br>32<br>31<br>32<br>33<br>31<br>Yes<br>8<br>The minimum value of the update time also depends on the communication<br>component set for PROFINET IO, on the number of IO devices and the quantity<br>of configured user data. |

| — IRT   | Yes   |
|---|---|
| — PROFlenergy   | Yes; per user program   |
| — Shared device   | Yes   |
| — Number of IO Controllers with shared device, max.                 | 2   |
| Protocols   | L   |
| Supports protocol for PROFINET IO                                   | Yes   |
| PROFIsafe   | Yes   |
| PROFIBUS  | No  |
| OPC UA  | No  |
| AS-Interface  | No  |
| Protocols (Ethernet)  |   |
| • TCP/IP  | Yes   |
| • DHCP  | Yes   |
| • SNMP  | Yes   |
| • DCP   | Yes   |
| • LLDP  | Yes   |
| Number of connections   |   |
| <ul> <li>Number of connections, max.</li> </ul>                     | 128; via integrated interfaces of the CPU and connected CPs / CMs   |
| <ul> <li>Number of connections reserved for ES/HMI/web</li> </ul>   | 10  |
| <ul> <li>Number of connections via integrated interfaces</li> </ul> | 88  |
| Redundancy mode   |   |
| Media redundancy  |   |
| — MRP   | Yes; as MRP redundancy manager and/or MRP client  |
| — MRPD  | Yes   |
| SIMATIC communication   |   |
| S7 routing  | No  |
| <ul> <li>S7 communication, as server</li> </ul>                     | Yes   |
| S7 communication, as client   | Yes   |
| Open IE communication   |   |
| • TCP/IP  | Yes   |
| — Data length, max.   | 8 kbyte   |
| — several passive connections per port, supported                   | Yes   |
| ISO-on-TCP (RFC1006)  | Yes   |
| — Data length, max.   | 8 kbyte   |
| • UDP   | Yes   |
| — Data length, max.   | 2 kbyte; 1 472 bytes for UDP broadcast  |
|   | Yes   |
| • DNS   | Yes   |
| SNMP     DCP  | Yes   |
| • LLDP  | Yes   |
| ELDF     Encryption   | Yes; Optional   |
| • Encryption<br>Web server  |   |
| supported   | Yes   |
| HTTPS   | Yes   |
| • web API   | Yes   |
| - Number of sessions, max.  | 30  |
| User-defined websites   | Yes   |
| Further protocols   |   |
| MODBUS  | Yes   |
| communication functions / header                                    |   |
| S7 communication  |   |
| supported   | Yes   |
| • as server   | Yes   |
| • as client   | Yes   |
| <ul> <li>User data per job, max.</li> </ul>                         | See online help (S7 communication, user data size)  |
| Number of connections   |   |
| overall   | PG Connections: 4 reserved; HMI Connections: 4 reserved / 82 max; S7  |
|   | Connections: 78 max; Open User Connections: 78 max; Web Connections: 2 reserved / 80 max; Total Connections: 10 reserved / 88 max |
| S7 message functions  |   |
| or message functions  |   |

| Number of login stations for message functions, max.   | 32   |
|--|--|
| Program alarms   | Yes  |
| Number of configurable program messages, max.  | 5 000  |
| Number of loadable program messages in RUN, max.   | 2 500  |
| Test commissioning functions   |  |
| Status/control   |  |
| Status/control variable  | Yes  |
| Variables  | Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters   |
| Forcing  |  |
| Forcing  | Yes  |
| Diagnostic buffer  |  |
| • present  | Yes  |
| Traces   |  |
| Number of configurable Traces  | 4  |
| Memory size per trace, max.  | 512 kbyte  |
| Interrupts/diagnostics/status information  |  |
| Diagnostics indication LED   |  |
| RUN/STOP LED   | Yes  |
| • ERROR LED  | Yes  |
| MAINT LED  | Yes  |
| Supported technology objects   |  |
| Motion Control   | Yes  |
| <ul> <li>Number of available Motion Control resources for<br/>technology objects</li> </ul>  | 800  |
| <ul> <li>Number of available Extended Motion Control resources<br/>for technology objects</li> </ul>   | 40   |
| Integrated Functions   |  |
| Counter  | Yes  |
| Number of counters   | 8  |
| <ul> <li>Counting frequency, max.</li> </ul>   | 100 kHz; Ia.0 to Ia.5: 100 kHz (80 kHz in quadrature mode), Ia.6 to Ia.7: 30 kHz (20 kHz in quadrature mode) |
| Frequency measurement  | Yes  |
| PID controller   | Yes  |
| Number of pulse outputs  | 8; individually assigned to CPU and Signal Board   |
| Limit frequency (pulse)  | 100 kHz  |
| Potential separation   |  |
| Potential separation digital inputs  |  |
| <ul> <li>Potential separation digital inputs</li> </ul>  | Yes; field side to logic: 707 V DC (type test)   |
| between the channels   | No   |
| Number of potential groups   | 1  |
| Potential separation digital outputs   |  |
| Potential separation digital outputs   | Relays   |
| between the channels   | No   |
| Number of potential groups   | 1  |
| EMC  |  |
| Interference immunity against discharge of static electricity  |  |
| Interference immunity against discharge of static<br>electricity acc. to IEC 61000-4-2   | Yes  |
| — Test voltage at air discharge  | 8 kV   |
| — Test voltage at contact discharge  | 6 kV   |
| Interference immunity to cable-borne interference  |  |
| Interference immunity on supply lines acc. to IEC 61000-<br>4-4  | Yes  |
| <ul> <li>Interference immunity on signal cables acc. to IEC 61000-<br/>4-4</li> </ul>  | Yes  |
| Interference immunity against voltage surge  |  |
|  | Yes  |
| <ul> <li>Interference immunity on supply lines acc. to IEC 61000-<br/>4-5</li> </ul>   |  |
|  | ed by high-frequency fields  |
| 4-5  | ed by high-frequency fields<br>Yes   |
| <ul> <li>4-5</li> <li>Interference immunity against conducted variable disturbance inducted</li> <li>Interference immunity against high-frequency radiation</li> </ul> |  |

## • Limit class B, for use in residential areas

Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN  $55011\,$ 

| Degree and class of protection  |   |
|---|---|
|   | IP20  |
| IP degree of protection   |   |
| Standards, approvals, certificates  | Vac   |
|   | Yes   |
| UL approval   | Yes   |
| cULus   | Yes   |
| FM approval   | No  |
| RCM (formerly C-TICK)   | Yes   |
| KC approval   | Yes   |
| Marine approval   | No  |
| Highest safety class achievable in safety mode  |   |
| <ul> <li>Performance level according to ISO 13849-1</li> </ul>                                  | PLe   |
| SIL acc. to IEC 61508   | SIL 3   |
| Probability of failure (for service life of 20 years and repair time                            | of 100 hours)   |
| <ul> <li>Low demand mode: PFDavg in accordance with<br/>SIL3</li> </ul>                         | < 2.00E-05  |
| <ul> <li>— High demand/continuous mode: PFH in accordance<br/>with SIL3</li> </ul>              | < 1.00E-09 up to an operational altitude of 3 000 m or < 2.00E-09 at an operating altitude greater than 3 000 m up to 5 000 m |
| product functions / security / header   |   |
| signed firmware update  | Yes   |
| Secure Boot   | Yes   |
| safely removing data  | No  |
| Ambient conditions  |   |
| Free fall   |   |
| <ul> <li>Fall height, max.</li> </ul>   | 0.3 m; five times, in product package   |
| Ambient temperature during operation  |   |
| • min.  | -20 °C; No condensation   |
| • max.  | 40 °C; 40 °C horizontal or 30 °C vertical at max. voltages and max. specifications  |
| <ul> <li>horizontal installation, min.</li> </ul>   | -20 °C; No condensation   |
| <ul> <li>horizontal installation, max.</li> </ul>   | 60 °C; at rated voltages, 50 % of max. specification and alternate IO active  |
| vertical installation, min.   | -20 °C; No condensation   |
| • vertical installation, max.   | 50 °C; at rated voltages, 50 % of max. specification and alternate IO active  |
| Ambient temperature during storage/transportation   |   |
| • min.  | -40 °C  |
| • max.  | 70 °C   |
| Air pressure acc. to IEC 60068-2-13   |   |
| • Operation, min.   | 540 hPa   |
| • Operation, max.   | 1 140 hPa   |
| Storage/transport, min.   | 540 hPa   |
| Storage/transport, min.     Storage/transport, max.   | 1 140 hPa   |
| Altitude during operation relating to sea level   |   |
| Installation altitude, min.   | -1 000 m  |
| Installation altitude, max.   | 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual  |
|   |   |
| Relative humidity   | 95 %; no condensation   |
| Operation, max.   |   |
| Vibrations <ul> <li>Vibration resistance during operation acc. to IEC 60068-<br/>2-6</li> </ul> | 3.5 mm from 5 - 8.4 Hz, 1g from 8.4 - 150 Hz  |
| <ul> <li>Operation, tested according to IEC 60068-2-6</li> </ul>                                | Yes   |
| Shock testing   |   |
| tested according to IEC 60068-2-27  | Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms                                     |
| Pollutant concentrations  |   |
| SO2 at RH < 60% without condensation  | S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free  |
| configuration / header  | 002 0.0 ppm, 120 0. 1 ppm, NT - 00 /0 condensation-nee  |
|   |   |
| configuration / programming / header  |   |
| Programming language  | Very incl. feilerfe   |
| — LAD   | Yes; incl. failsafe   |
| — FBD   | Yes; incl. failsafe   |

| - SCL   | Yes              |
|---|------------------|
| Know-how protection   |                  |
| <ul> <li>User program protection/password protection</li> </ul>     | Yes              |
| Access protection   |                  |
| <ul> <li>protection of confidential configuration data</li> </ul>   | Yes              |
| <ul> <li>Protection level: Write protection</li> </ul>              | Yes              |
| <ul> <li>Protection level: Read/write protection</li> </ul>         | Yes              |
| <ul> <li>Protection level: Write protection for Failsafe</li> </ul> | Yes              |
| <ul> <li>Protection level: Complete protection</li> </ul>           | Yes              |
| <ul> <li>User administration</li> </ul>                             | Yes; device-wide |
| Number of users   | 100              |
| <ul> <li>Number of groups</li> </ul>                                | 100              |
| Number of roles   | 50               |
| programming / cycle time monitoring / header                        |                  |
| adjustable  | Yes              |
| Dimensions  |                  |
| Width   | 70 mm            |
| Height  | 125 mm           |
| Depth   | 100 mm           |
| Weights   |                  |
| Weight, approx.   | 333 g            |
|   |                  |

last modified:

1/22/2025 🖸