

SIMATIC S7-300 CPU315F-2 PN/DP, CENTRAL PROCESSING UNIT WITH 512 KBYTE WORKING MEMORY, 1. INTERFACE MPI/DP 12MBIT/S, 2. INTERFACE ETHERNET PROFINET, WITH 2 PORT SWITCH, MICRO MEMORY CARD NECESSARY



Figure similar

| General information   |  |
|---|--|
| Hardware product version                                    | 01   |
| Firmware version  | V3.2   |
| Engineering with  |  |
| • Programming package                                       | STEP 7 V5.5 or higher, Distributed Safety V5.4 SP4 |
| 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   |
| external protection for power supply lines (recommendation) | 2 A min.   |
| Mains buffering   |  |
| • Mains/voltage failure stored energy time                  | 5 ms   |
| • Repeat rate, min.   | 1 s  |
| Input current   |  |
| Current consumption (rated value)                           | 750 mA   |

|  |                     |
|--|---------------------|
| Current consumption (in no-load operation), typ. | 150 mA              |
| Inrush current, typ.                             | 4 A                 |
| $I^2t$   | 1 A <sup>2</sup> ·s |

## Power loss

|                  |        |
|------------------|--------|
| Power loss, typ. | 4.65 W |
|------------------|--------|

## Memory

|   |   |
|---|---|
| Work memory   |   |
| • integrated  | 512 kbyte                                 |
| • expandable  | No  |
| • Size of retentive memory for retentive data blocks    | 128 kbyte                                 |
| Load memory   |   |
| • Plug-in (MMC)   | Yes                                       |
| • Plug-in (MMC), max.                                   | 8 Mbyte                                   |
| • Data management on MMC (after last programming), min. | 10 y                                      |
| Backup  |   |
| • present   | Yes; Guaranteed by MMC (maintenance-free) |
| • without battery                                       | Yes; Program and data                     |

## CPU processing times

|                                     |         |
|-------------------------------------|---------|
| for bit operations, typ.            | 0.05 µs |
| for word operations, typ.           | 0.09 µs |
| for fixed point arithmetic, typ.    | 0.12 µs |
| for floating point arithmetic, typ. | 0.45 µs |

## CPU-blocks

|                             |   |
|-----------------------------|---|
| Number of blocks (total)    | 1 024; (DBs, FCs, FBs); the maximum number of loadable blocks can be reduced by the MMC used. |
| DB                          |   |
| • Number, max.              | 1 024; Number range: 1 to 16000   |
| • Size, max.                | 64 kbyte  |
| FB                          |   |
| • Number, max.              | 1 024; Number range: 0 to 7999  |
| • Size, max.                | 64 kbyte  |
| FC                          |   |
| • Number, max.              | 1 024; Number range: 0 to 7999  |
| • Size, max.                | 64 kbyte  |
| OB                          |   |
| • Size, max.                | 64 kbyte  |
| • Number of free cycle OBs  | 1; OB 1   |
| • Number of time alarm OBs  | 1; OB 10  |
| • Number of delay alarm OBs | 2; OB 20, 21  |

|  |  |
|--|--|
| • Number of cyclic interrupt OBs       | 4; OB 32, 33, 34, 35                                     |
| • Number of process alarm OBs          | 1; OB 40   |
| • Number of DPV1 alarm OBs             | 3; OB 55, 56, 57   |
| • Number of isochronous mode OBs       | 1; OB 61   |
| • Number of startup OBs                | 1; OB 100  |
| • Number of asynchronous error OBs     | 6; OB 80, 82, 83, 85, 86, 87 (OB83 only for PROFINET IO) |
| • Number of synchronous error OBs      | 2; OB 121, 122   |
| Nesting depth                          |  |
| • per priority class                   | 16   |
| • additional within an error OB        | 4  |
| Counters, timers and their retentivity |  |
| S7 counter                             |  |
| • Number                               | 256  |
| Retentivity                            |  |
| — adjustable                           | Yes  |
| — lower limit                          | 0  |
| — upper limit                          | 255  |
| — preset                               | Z 0 to Z 7   |
| Counting range                         |  |
| — can be set                           | Yes  |
| — lower limit                          | 0  |
| — upper limit                          | 999  |
| IEC counter                            |  |
| • Number                               | Unlimited (limited only by RAM capacity)                 |
| S7 times                               |  |
| • Number                               | 256  |
| Retentivity                            |  |
| — adjustable                           | Yes  |
| — lower limit                          | 0  |
| — upper limit                          | 255  |
| — preset                               | No retentivity   |
| Time range                             |  |
| — lower limit                          | 10 ms  |
| — upper limit                          | 9 990 s  |
| IEC timer                              |  |
| • present                              | Yes  |
| • Type                                 | SFB  |
| • Number                               | Unlimited (limited only by RAM capacity)                 |
| Data areas and their retentivity       |  |
| retentive data area in total           | All, 128 KB max.   |
| Flag                                   |  |

|                                     |   |
|-------------------------------------|---|
| • Number, max.                      | 2 048 byte  |
| • Retentivity available             | Yes; MB 0 to MB 2047  |
| • Retentivity preset                | MB 0 to MB 15   |
| • Number of clock memories          | 8; 1 memory byte  |
| <b>Data blocks</b>                  |   |
| • Number, max.                      | 1 023; Number range: 1 to 16000   |
| • Size, max.                        | 64 kbyte  |
| • Retentivity adjustable            | Yes; via non-retain property on DB  |
| • Retentivity preset                | Yes   |
| <b>Local data</b>                   |   |
| • per priority class, max.          | 32 768 byte; Max. 2048 bytes per block                                    |
| <b>Address area</b>                 |   |
| <b>I/O address area</b>             |   |
| • Inputs                            | 2 048 byte  |
| • Outputs                           | 2 048 byte  |
| <b>of which distributed</b>         |   |
| — Inputs                            | 2 048 byte  |
| — Outputs                           | 2 048 byte  |
| <b>Process image</b>                |   |
| • Inputs                            | 2 048 byte  |
| • Outputs                           | 2 048 byte  |
| • Inputs, adjustable                | 2 048 byte  |
| • Outputs, adjustable               | 2 048 byte  |
| • Inputs, default                   | 128 byte  |
| • Outputs, default                  | 128 byte  |
| <b>Subprocess images</b>            |   |
| • Number of subprocess images, max. | 1; With PROFINET IO, the length of the user data is limited to 1600 bytes |
| <b>Digital channels</b>             |   |
| • Inputs                            | 16 384  |
| — of which central                  | 1 024   |
| • Outputs                           | 16 384  |
| — of which central                  | 1 024   |
| <b>Analog channels</b>              |   |
| • Inputs                            | 1 024   |
| — of which central                  | 256   |
| • Outputs                           | 1 024   |
| — of which central                  | 256   |
| <b>Hardware configuration</b>       |   |
| Number of expansion units, max.     | 3   |
| <b>Number of DP masters</b>         |   |

|   |  |
|---|--|
| • integrated  | 1  |
| • via CP  | 4  |
| Number of operable FMs and CPs (recommended)              |  |
| • FM  | 8  |
| • CP, PtP   | 8  |
| • CP, LAN   | 10   |
| Rack  |  |
| • Racks, max.   | 4  |
| • Modules per rack, max.                                  | 8  |
| Time of day   |  |
| Clock   |  |
| • Hardware clock (real-time)                              | Yes  |
| • retentive and synchronizable                            | Yes  |
| • Backup time   | 6 wk; At 40 °C ambient temperature                                       |
| • Deviation per day, max.                                 | 10 s; Typ.: 2 s  |
| • Behavior of the clock following POWER-ON                | Clock continues running after POWER OFF                                  |
| • Behavior of the clock following expiry of backup period | Clock continues to run with the time at which the power failure occurred |
| Operating hours counter                                   |  |
| • Number  | 1  |
| • Number/Number range                                     | 0  |
| • Range of values   | 0 to 2 <sup>31</sup> hours (when using SFC 101)                          |
| • Granularity   | 1 hour   |
| • retentive   | Yes; Must be restarted at each restart                                   |
| Clock synchronization                                     |  |
| • supported   | Yes  |
| • to MPI, master  | Yes  |
| • to MPI, slave   | Yes  |
| • to DP, master   | Yes; With DP slave only slave clock                                      |
| • to DP, slave  | Yes  |
| • in AS, master   | Yes  |
| • in AS, slave  | Yes  |
| • on Ethernet via NTP                                     | Yes; As client   |
| Digital inputs  |  |
| Number of digital inputs                                  | 0  |
| Digital outputs   |  |
| Number of digital outputs                                 | 0  |
| Analog inputs   |  |
| Number of analog inputs                                   | 0  |
| Analog outputs  |  |

|   |   |
|---|---|
| Number of analog outputs                        | 0   |
| <b>Interfaces</b>                               |   |
| Number of industrial Ethernet interfaces        | 1   |
| Number of RS 485 interfaces                     | 1   |
| Number of RS 422 interfaces                     | 0   |
| <b>1. Interface</b>                             |   |
| Interface type                                  | Integrated RS 485 interface   |
| Physics   | RS 485  |
| Isolated  | Yes   |
| Power supply to interface (15 to 30 V DC), max. | 200 mA  |
| <b>Functionality</b>                            |   |
| • MPI   | Yes   |
| • PROFIBUS DP master                            | Yes   |
| • PROFIBUS DP slave                             | Yes   |
| • Point-to-point connection                     | No  |
| <b>MPI</b>                                      |   |
| • Transmission rate, max.                       | 12 Mbit/s   |
| <b>Services</b>                                 |   |
| — PG/OP communication                           | Yes   |
| — Routing                                       | Yes   |
| — Global data communication                     | Yes   |
| — S7 basic communication                        | Yes   |
| — S7 communication                              | Yes   |
| — S7 communication, as client                   | No; but via CP and loadable FB  |
| — S7 communication, as server                   | Yes   |
| <b>DP master</b>                                |   |
| • Transmission rate, max.                       | 12 Mbit/s   |
| • Number of DP slaves, max.                     | 124   |
| <b>Services</b>                                 |   |
| — PG/OP communication                           | Yes   |
| — Routing                                       | Yes   |
| — Global data communication                     | No  |
| — S7 basic communication                        | Yes; I blocks only  |
| — S7 communication                              | Yes   |
| — S7 communication, as client                   | No  |
| — S7 communication, as server                   | Yes   |
| — Equidistance                                  | Yes   |
| — Isochronous mode                              | Yes; OB 61; isochronous mode can only be used alternatively on PROFIBUS DP or PROFINET IO |
| — SYNC/FREEZE                                   | Yes   |
| — Activation/deactivation of DP slaves          | Yes   |

|  |   |
|--|---|
| — Number of DP slaves that can be simultaneously activated/deactivated, max. | 8   |
| — Direct data exchange (slave-to-slave communication)                        | Yes; As subscriber                          |
| — DPV1   | Yes   |
| <b>Address area</b>  |   |
| — Inputs, max.   | 2 kbyte                                     |
| — Outputs, max.  | 2 kbyte                                     |
| <b>User data per DP slave</b>  |   |
| — Inputs, max.   | 244 byte                                    |
| — Outputs, max.  | 244 byte                                    |
| <b>DP slave</b>  |   |
| • Transmission rate, max.  | 12 Mbit/s                                   |
| • automatic baud rate search   | Yes; only with passive interface            |
| • Address area, max.   | 32  |
| • User data per address area, max.   | 32 byte                                     |
| <b>Services</b>  |   |
| — PG/OP communication  | Yes   |
| — Routing  | Yes; Only with active interface             |
| — Global data communication  | No  |
| — S7 basic communication   | No  |
| — S7 communication   | Yes   |
| — S7 communication, as client  | No  |
| — S7 communication, as server  | Yes; Connection configured on one side only |
| — Direct data exchange (slave-to-slave communication)                        | Yes   |
| — DPV1   | No  |
| <b>Transfer memory</b>   |   |
| — Inputs   | 244 byte                                    |
| — Outputs  | 244 byte                                    |

|  |                    |
|--|--------------------|
| <b>2. Interface</b>                        |                    |
| Interface type                             | PROFINET           |
| Physics                                    | Ethernet RJ45      |
| Isolated                                   | Yes                |
| automatic detection of transmission rate   | Yes; 10/100 Mbit/s |
| Autonegotiation                            | Yes                |
| Autocrossing                               | Yes                |
| Change of IP address at runtime, supported | Yes                |
| <b>Interface types</b>                     |                    |
| • Number of ports                          | 2                  |
| • integrated switch                        | Yes                |
| <b>Media redundancy</b>                    |                    |

|   |   |
|---|---|
| • supported   | Yes   |
| • Switchover time on line break, typ.   | 200 ms; PROFINET MRP  |
| • Number of stations in the ring, max.  | 50  |
| <b>Functionality</b>  |   |
| • MPI   | No  |
| • PROFINET IO Controller  | Yes; Also simultaneously with IO-Device functionality                                     |
| • PROFINET IO Device  | Yes; Also simultaneously with IO Controller functionality                                 |
| • PROFINET CBA  | Yes   |
| • PROFIBUS DP master  | No  |
| • PROFIBUS DP slave   | No  |
| • Open IE communication   | Yes; Via TCP/IP, ISO on TCP, and UDP  |
| • Web server  | Yes; only read function   |
| — Number of HTTP clients  | 5   |
| <b>PROFINET IO Controller</b>   |   |
| • Transmission rate, max.   | 100 Mbit/s  |
| <b>Services</b>   |   |
| — PG/OP communication   | Yes   |
| — Routing   | Yes   |
| — S7 communication  | Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32   |
| — Isochronous mode  | Yes; OB 61; isochronous mode can only be used alternatively on PROFIBUS DP or PROFINET IO |
| — Open IE communication   | Yes; Via TCP/IP, ISO on TCP, and UDP  |
| — IRT   | Yes   |
| — Shared device   | Yes   |
| — Prioritized startup   | Yes   |
| — Number of IO devices with prioritized startup, max.                         | 32  |
| — Number of connectable IO Devices, max.                                      | 128   |
| — Of which IO devices with IRT, max.  | 64  |
| — of which in line, max.  | 64  |
| — Number of IO Devices with IRT and the option "high flexibility"             | 128   |
| — of which in line, max.  | 61  |
| — Number of connectable IO Devices for RT, max.                               | 128   |
| — of which in line, max.  | 128   |
| — Activation/deactivation of IO Devices                                       | Yes   |
| — Number of IO Devices that can be simultaneously activated/deactivated, max. | 8   |
| — IO Devices changing during operation (partner ports), supported             | Yes   |
| — Number of IO Devices per tool, max.   | 8   |



|   |   |
|---|---|
| — Device replacement without swap medium            | Yes   |
| — Send cycles                                       | 250 µs, 500 µs, 1 ms; 2 ms, 4 ms (not in the case of IRT with "high flexibility" option)                                      |
| — Updating time                                     | 250 µs to 512 ms (depending on the operating mode, see Manual "S7-300 CPU 31xC and CPU 31x, Technical Data" for more details) |
| <b>Address area</b>                                 |   |
| — Inputs, max.                                      | 2 kbyte   |
| — Outputs, max.                                     | 2 kbyte   |
| — User data consistency, max.                       | 1 024 byte  |
| <b>PROFINET IO Device</b>                           |   |
| <b>Services</b>                                     |   |
| — PG/OP communication                               | Yes   |
| — Routing   | Yes   |
| — S7 communication                                  | Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32                                       |
| — Isochronous mode                                  | No  |
| — Open IE communication                             | Yes; Via TCP/IP, ISO on TCP, and UDP  |
| — IRT   | Yes   |
| — PROFINergy  | Yes; With SFB 73 / 74 prepared for loadable PROFINergy standard FB for I-Device   |
| — Shared device                                     | Yes   |
| — Number of IO Controllers with shared device, max. | 2   |
| <b>Transfer memory</b>                              |   |
| — Inputs, max.                                      | 1 440 byte; Per IO Controller with shared device  |
| — Outputs, max.                                     | 1 440 byte; Per IO Controller with shared device  |
| <b>Submodules</b>                                   |   |
| — Number, max.                                      | 64  |
| — User data per submodule, max.                     | 1 024 byte  |
| <b>PROFINET CBA</b>                                 |   |
| • acyclic transmission                              | Yes   |
| • cyclic transmission                               | Yes   |
| <b>Open IE communication</b>                        |   |
| • Number of connections, max.                       | 8   |
| • Local port numbers used at the system end         | 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535                              |
| • Keep-alive function, supported                    | Yes   |
| <b>Protocols</b>                                    |   |
| <b>Open IE communication</b>                        |   |
| • TCP/IP  |   |
| — Number of connections, max.                       | 8   |

|   |   |
|---|---|
| — Data length for connection type 01H, max.       | 1 460 byte  |
| — Data length for connection type 11H, max.       | 32 768 byte   |
| — several passive connections per port, supported | Yes   |
| • ISO-on-TCP (RFC1006)                            | Yes; via integrated PROFINET interface and loadable FBs |
| — Number of connections, max.                     | 8   |
| — Data length, max.                               | 32 768 byte   |
| • UDP   |   |
| — Number of connections, max.                     | 8   |
| — Data length, max.                               | 1 472 byte  |

#### Isochronous mode

|   |  |
|---|--|
| Isochronous operation (application synchronized up to terminal) | Yes; Via PROFIBUS DP or PROFINET interface |
|---|--|

#### Communication functions

|                     |     |
|---------------------|-----|
| PG/OP communication | Yes |
|---------------------|-----|

|                     |     |
|---------------------|-----|
| Data record routing | Yes |
|---------------------|-----|

#### Global data communication

|   |         |
|---|---------|
| • supported                                     | Yes     |
| • Number of GD loops, max.                      | 8       |
| • Number of GD packets, max.                    | 8       |
| • Number of GD packets, transmitter, max.       | 8       |
| • Number of GD packets, receiver, max.          | 8       |
| • Size of GD packets, max.                      | 22 byte |
| • Size of GD packet (of which consistent), max. | 22 byte |

#### S7 basic communication

|   |  |
|---|--|
| • supported                                     | Yes  |
| • User data per job, max.                       | 76 byte  |
| • User data per job (of which consistent), max. | 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) |

#### S7 communication

|                           |   |
|---------------------------|---|
| • supported               | Yes   |
| • as server               | Yes   |
| • as client               | Yes; via integrated PROFINET interface and loadable FB or via CP and loadable FB                      |
| • User data per job, max. | See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication) |

#### S5 compatible communication

|             |                             |
|-------------|-----------------------------|
| • supported | Yes; via CP and loadable FC |
|-------------|-----------------------------|

#### Open IE communication

|          |   |
|----------|---|
| • TCP/IP | Yes; via integrated PROFINET interface and loadable FBs |
| • UDP    | Yes; via integrated PROFINET interface and loadable FBs |

#### Web server

|  |                         |
|--|-------------------------|
| • supported  | Yes; only read function |
| • Number of HTTP clients   | 5                       |
| • User-defined websites  | Yes                     |
| PROFINET CBA (at set setpoint communication load)                    |                         |
| • Setpoint for the CPU communication load                            | 50 %                    |
| • Number of remote interconnection partners                          | 32                      |
| • Number of functions, master/slave                                  | 30                      |
| • Total of all master/slave connections                              | 1 000                   |
| • Data length of all incoming connections master/slave, max.         | 4 000 byte              |
| • Data length of all outgoing connections master/slave, max.         | 4 000 byte              |
| • Number of device-internal and PROFIBUS interconnections            | 500                     |
| • Data length of device-internal und PROFIBUS interconnections, max. | 4 000 byte              |
| • Data length per connection, max.                                   | 1 400 byte              |
| Remote interconnections with acyclic transmission                    |                         |
| — Sampling frequency: Sampling time, min.                            | 500 ms                  |
| — Number of incoming interconnections                                | 100                     |
| — Number of outgoing interconnections                                | 100                     |
| — Data length of all incoming interconnections, max.                 | 2 000 byte              |
| — Data length of all outgoing interconnections, max.                 | 2 000 byte              |
| — Data length per connection, max.                                   | 1 400 byte              |
| Remote interconnections with cyclic transmission                     |                         |
| — Transmission frequency: Transmission interval, min.                | 10 ms                   |
| — Number of incoming interconnections                                | 200                     |
| — Number of outgoing interconnections                                | 200                     |
| — Data length of all incoming interconnections, max.                 | 2 000 byte              |
| — Data length of all outgoing interconnections, max.                 | 2 000 byte              |
| — Data length per connection, max.                                   | 450 byte                |
| HMI variables via PROFINET (acyclic)                                 |                         |
| — Number of stations that can log on for HMI variables (PN OPC/iMap) | 3; 2x PN OPC/1x iMap    |
| — HMI variable updating  | 500 ms                  |
| — Number of HMI variables  | 200                     |
| — Data length of all HMI variables, max.                             | 2 000 byte              |
| PROFIBUS proxy functionality   |                         |

|  |   |
|--|---|
| — supported  | Yes   |
| — Number of linked PROFIBUS devices                  | 16  |
| — Data length per connection, max.                   | 240 byte; Slave-dependent   |
| <b>Number of connections</b>                         |   |
| • overall  | 16  |
| • usable for PG communication                        | 15  |
| — reserved for PG communication                      | 1   |
| — adjustable for PG communication, min.              | 1   |
| — adjustable for PG communication, max.              | 15  |
| • usable for OP communication                        | 15  |
| — reserved for OP communication                      | 1   |
| — adjustable for OP communication, min.              | 1   |
| — adjustable for OP communication, max.              | 15  |
| • usable for S7 basic communication                  | 14  |
| — reserved for S7 basic communication                | 0   |
| — adjustable for S7 basic communication, min.        | 0   |
| — adjustable for S7 basic communication, max.        | 14  |
| • usable for S7 communication                        | 14  |
| — reserved for S7 communication                      | 0   |
| — adjustable for S7 communication, min.              | 0   |
| — adjustable for S7 communication, max.              | 14  |
| • total number of instances, max.                    | 32  |
| • usable for routing                                 | X1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max. 14; X2 as PROFINET: 24 max. |
| <b>S7 message functions</b>                          |   |
| Number of login stations for message functions, max. | 16; Depending on the configured connections for PG/OP and S7 basic communication                        |
| Process diagnostic messages                          | Yes   |
| simultaneously active Alarm-S blocks, max.           | 300   |
| <b>Test commissioning functions</b>                  |   |
| Status block   | Yes; Up to 2 simultaneously   |
| Single step  | Yes   |
| Number of breakpoints                                | 4   |
| <b>Status/control</b>                                |   |
| • Status/control variable                            | Yes   |
| • Variables  | Inputs, outputs, memory bits, DB, times, counters   |
| • Number of variables, max.                          | 30  |
| — of which status variables, max.                    | 30  |
| — of which control variables, max.                   | 14  |
| <b>Forcing</b>                                       |   |

|   |                            |
|---|----------------------------|
| • Forcing                                     | Yes                        |
| • Forcing, variables                          | Inputs, outputs            |
| • Number of variables, max.                   | 10                         |
| Diagnostic buffer                             |                            |
| • present                                     | Yes                        |
| • Number of entries, max.                     | 500                        |
| — adjustable                                  | No                         |
| — of which powerfail-proof                    | 100                        |
| • Number of entries readable in RUN, max.     | 499                        |
| — can be set                                  | Yes                        |
| — preset                                      | 10                         |
| Service data                                  |                            |
| • can be read out                             | Yes                        |
| Ambient conditions                            |                            |
| Ambient temperature during operation          |                            |
| • min.  | 0 °C                       |
| • max.  | 60 °C                      |
| Configuration                                 |                            |
| Configuration software                        |                            |
| • STEP 7                                      | Yes; V5.5 or higher        |
| Programming                                   |                            |
| • Command set                                 | see instruction list       |
| • Nesting levels                              | 8                          |
| • System functions (SFC)                      | see instruction list       |
| • System function blocks (SFB)                | see instruction list       |
| Programming language                          |                            |
| — LAD   | Yes                        |
| — FBD   | Yes                        |
| — STL   | Yes                        |
| — SCL   | Yes                        |
| — CFC   | Yes                        |
| — GRAPH                                       | Yes                        |
| — HiGraph®                                    | Yes                        |
| Know-how protection                           |                            |
| • User program protection/password protection | Yes                        |
| • Block encryption                            | Yes; With S7 block Privacy |
| Dimensions                                    |                            |
| Width   | 40 mm                      |
| Height  | 125 mm                     |
| Depth   | 130 mm                     |

## Weights

Weight, approx.

340 g

**last modified:**

08/12/2017