



SIMATIC S7-300 CPU 315-2 PN/DP,  
CENTRAL PROCESSING UNIT WITH 256 KBYTE  
WORKING MEMORY,  
1. INTERFACE MPI/DP 12MBIT/S,  
2. INTERFACE ETHERNET PROFINET,  
MICRO MEMORY CARD NECESSARY

### General information

Hardware product version

01

Firmware version

V2.6

### Engineering with

Programming package

STEP 7 V5.4 SP2

### Supply voltage

Rated value (DC)

24 V

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.

### Input current

Current consumption (rated value)

650 mA

Current consumption (in no-load operation), typ.

100 mA

Rated value at 24 V DC

100 mA ; idling

Inrush current, max.

2.5 A ; Typical

Inrush current, typ.

2.5 A

Starting current inrush I<sup>st</sup>

1 A<sup>2</sup>·s

I<sup>st</sup>

1 A<sup>2</sup>·s

|                                                       |                                                                                               |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Power loss</b>                                     |                                                                                               |
| Power loss, typ.                                      | 3.5 W                                                                                         |
| <b>Memory</b>                                         |                                                                                               |
| Type of memory                                        | other                                                                                         |
| <b>Work memory</b>                                    |                                                                                               |
| integrated                                            | 256 kbyte ; For program and data                                                              |
| expandable                                            | No                                                                                            |
| <b>Load memory</b>                                    |                                                                                               |
| Plug-in (MMC)                                         | Yes                                                                                           |
| Plug-in (MMC), max.                                   | 8 Mbyte                                                                                       |
| Data management on MMC (after last programming), min. | 10 a                                                                                          |
| <b>Backup</b>                                         |                                                                                               |
| present                                               | Yes ; Guaranteed by MMC (maintenance-free)                                                    |
| without battery                                       | Yes ; Program and data                                                                        |
| <b>CPU processing times</b>                           |                                                                                               |
| for bit operations, typ.                              | 0.1 $\mu$ s                                                                                   |
| for word operations, typ.                             | 0.2 $\mu$ s                                                                                   |
| for fixed point arithmetic, typ.                      | 2 $\mu$ s                                                                                     |
| for floating point arithmetic, typ.                   | 3 $\mu$ s                                                                                     |
| <b>CPU-blocks</b>                                     |                                                                                               |
| Number of blocks (total)                              | 1024 ; (DBs, FCs, FBs); the maximum number of loadable blocks can be reduced by the MMC used. |
| <b>DB</b>                                             |                                                                                               |
| Number, max.                                          | 1023 ; Number band: 1 to 1023                                                                 |
| Size, max.                                            | 16 kbyte                                                                                      |
| <b>FB</b>                                             |                                                                                               |
| Number, max.                                          | 1024 ; Number range: 0 to 2047                                                                |
| Size, max.                                            | 16 kbyte                                                                                      |
| <b>FC</b>                                             |                                                                                               |
| Number, max.                                          | 1024 ; Number range: 0 to 2047                                                                |
| Size, max.                                            | 16 kbyte                                                                                      |
| <b>OB</b>                                             |                                                                                               |
| Size, max.                                            | 16 kbyte                                                                                      |
| Number of free cycle OBs                              | 1 ; OB 1                                                                                      |
| Number of time alarm OBs                              | 1 ; OB 10                                                                                     |
| Number of delay alarm OBs                             | 1 ; OB 20                                                                                     |
| Number of time interrupt OBs                          | 1 ; OB 35                                                                                     |
| Number of process alarm OBs                           | 1 ; OB 40                                                                                     |
| Number of DPV1 alarm OBs                              | 3 ; OB 55, 56, 57                                                                             |

|                                               |                                          |
|-----------------------------------------------|------------------------------------------|
| <b>Number of isochronous mode OBs</b>         | 1 ; OB 61                                |
| <b>Number of startup OBs</b>                  | 1 ; OB 100                               |
| <b>Number of asynchronous error OBs</b>       | 6 ; OB 80, 82, 83, 85, 86, 87            |
| <b>Number of synchronous error OBs</b>        | 2 ; OB 121, 122                          |
| <b>Nesting depth</b>                          |                                          |
| <b>per priority class</b>                     | 8                                        |
| <b>additional within an error OB</b>          | 4                                        |
| <b>Counters, timers and their retentivity</b> |                                          |
| <b>S7 counter</b>                             |                                          |
| <b>Number</b>                                 | 256                                      |
| <b>Retentivity</b>                            |                                          |
| <b>adjustable</b>                             | Yes                                      |
| <b>lower limit</b>                            | 0                                        |
| <b>upper limit</b>                            | 255                                      |
| <b>preset</b>                                 | 8                                        |
| <b>Counting range</b>                         |                                          |
| <b>adjustable</b>                             | Yes                                      |
| <b>lower limit</b>                            | 0                                        |
| <b>upper limit</b>                            | 999                                      |
| <b>IEC counter</b>                            |                                          |
| <b>present</b>                                | Yes                                      |
| <b>Type</b>                                   | SFB                                      |
| <b>Number</b>                                 | Unlimited (limited only by RAM capacity) |
| <b>S7 times</b>                               |                                          |
| <b>Number</b>                                 | 256                                      |
| <b>Retentivity</b>                            |                                          |
| <b>adjustable</b>                             | Yes                                      |
| <b>lower limit</b>                            | 0                                        |
| <b>upper limit</b>                            | 255                                      |
| <b>preset</b>                                 | No retentivity                           |
| <b>Time range</b>                             |                                          |
| <b>lower limit</b>                            | 10 ms                                    |
| <b>upper limit</b>                            | 9990 s                                   |
| <b>IEC timer</b>                              |                                          |
| <b>present</b>                                | Yes                                      |
| <b>Type</b>                                   | SFB                                      |
| <b>Number</b>                                 | Unlimited (limited only by RAM capacity) |
| <b>Data areas and their retentivity</b>       |                                          |

|                                          |                                     |
|------------------------------------------|-------------------------------------|
| <b>retentive data area, total</b>        | All, 128 KB max.                    |
| <b>Flag</b>                              |                                     |
| <b>Number, max.</b>                      | 2048 byte                           |
| <b>Retentivity available</b>             | Yes ; MB 0 to MB 2047               |
| <b>Retentivity preset</b>                | MB 0 to MB 15                       |
| <b>Number of clock memories</b>          | 8 ; 1 memory byte                   |
| <b>Data blocks</b>                       |                                     |
| <b>Number, max.</b>                      | 1023 ; Number band: 1 to 1023       |
| <b>Size, max.</b>                        | 16 kbyte                            |
| <b>Retentivity adjustable</b>            | Yes ; via non-retain property on DB |
| <b>Retentivity preset</b>                | Yes                                 |
| <b>Local data</b>                        |                                     |
| <b>per priority class, max.</b>          | 1024 byte ; per block max. 510      |
| <b>Address area</b>                      |                                     |
| <b>I/O address area</b>                  |                                     |
| <b>Inputs</b>                            | 2 kbyte                             |
| <b>Outputs</b>                           | 2 kbyte                             |
| <b>of which distributed</b>              |                                     |
| <b>Inputs</b>                            | 2 kbyte                             |
| <b>Outputs</b>                           | 2 kbyte                             |
| <b>Process image</b>                     |                                     |
| <b>Inputs</b>                            | 2048 byte                           |
| <b>Outputs</b>                           | 2048 byte                           |
| <b>Inputs, adjustable</b>                | 2 kbyte                             |
| <b>Outputs, adjustable</b>               | 2 kbyte                             |
| <b>Inputs, default</b>                   | 128 byte                            |
| <b>Outputs, default</b>                  | 128 byte                            |
| <b>Subprocess images</b>                 |                                     |
| <b>Number of subprocess images, max.</b> | 1                                   |
| <b>Digital channels</b>                  |                                     |
| <b>Inputs</b>                            | 16384                               |
| <b>Outputs</b>                           | 16384                               |
| <b>Inputs, of which central</b>          | 1024                                |
| <b>Outputs, of which central</b>         | 1024                                |
| <b>Analog channels</b>                   |                                     |
| <b>Inputs</b>                            | 1024                                |
| <b>Outputs</b>                           | 1024                                |
| <b>Inputs, of which central</b>          | 256                                 |

|                                                     |                                                 |
|-----------------------------------------------------|-------------------------------------------------|
| Outputs, of which central                           | 256                                             |
| <b>Hardware configuration</b>                       |                                                 |
| Expansion devices, max.                             | 3                                               |
| <b>Number of DP masters</b>                         |                                                 |
| integrated                                          | 1                                               |
| via CP                                              | 4                                               |
| <b>Number of operable FMs and CPs (recommended)</b> |                                                 |
| FM                                                  | 8                                               |
| CP, point-to-point                                  | 8                                               |
| CP, LAN                                             | 10                                              |
| <b>Rack</b>                                         |                                                 |
| Racks, max.                                         | 4                                               |
| Modules per rack, max.                              | 8                                               |
| <b>Time of day</b>                                  |                                                 |
| <b>Clock</b>                                        |                                                 |
| Hardware clock (real-time clock)                    | Yes                                             |
| battery-backed and synchronizable                   | Yes                                             |
| Deviation per day, max.                             | 10 s                                            |
| Backup time                                         | 6 wk ; At 40 °C ambient temperature             |
| <b>Operating hours counter</b>                      |                                                 |
| 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         |
| <b>Clock synchronization</b>                        |                                                 |
| 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                                 |
| <b>Digital inputs</b>                               |                                                 |
| integrated channels (DI)                            | 0                                               |
| <b>Digital outputs</b>                              |                                                 |
| integrated channels (DO)                            | 0                                               |

|                                                 |                             |
|-------------------------------------------------|-----------------------------|
| <b>Analog inputs</b>                            |                             |
| integrated channels (AI)                        | 0                           |
| <b>Analog outputs</b>                           |                             |
| integrated channels (AO)                        | 0                           |
| <b>Interfaces</b>                               |                             |
| Number of parallel interfaces                   | 0                           |
| Number of 20 mA interfaces (TTY)                | 0                           |
| Number of RS 232 interfaces                     | 0                           |
| Number of RS 422 interfaces                     | 0                           |
| Number of other 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                         |
| DP master                                       | Yes                         |
| DP slave                                        | Yes                         |
| Point-to-point connection                       | No                          |
| <b>MPI</b>                                      |                             |
| Number of connections                           | 16                          |
| 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                          |
| 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                          |

|                                                            |                                   |
|------------------------------------------------------------|-----------------------------------|
| <b>S7 basic communication</b>                              | Yes ; I blocks only               |
| <b>S7 communication</b>                                    | Yes                               |
| <b>S7 communication, as client</b>                         | No                                |
| <b>S7 communication, as server</b>                         | Yes                               |
| <b>Equidistance mode support</b>                           | Yes                               |
| <b>Isochronous mode</b>                                    | Yes ; OB 61                       |
| <b>SYNC/FREEZE</b>                                         | Yes                               |
| <b>Activation/deactivation of DP slaves</b>                | Yes                               |
| <b>DPV1</b>                                                | Yes                               |
| <b>Address area</b>                                        |                                   |
| <b>Inputs, max.</b>                                        | 2 kbyte                           |
| <b>Outputs, max.</b>                                       | 2 kbyte                           |
| <b>User data per DP slave</b>                              |                                   |
| <b>Inputs, max.</b>                                        | 244 byte                          |
| <b>Outputs, max.</b>                                       | 244 byte                          |
| <b>DP slave</b>                                            |                                   |
| <b>Transmission rate, max.</b>                             | 12 Mbit/s                         |
| <b>automatic baud rate search</b>                          | Yes ; only with passive interface |
| <b>Address area, max.</b>                                  | 32 ; With max. 32 bytes each      |
| <b>Services</b>                                            |                                   |
| <b>PG/OP communication</b>                                 | Yes                               |
| <b>Routing</b>                                             | Yes ; Only with active interface  |
| <b>Global data communication</b>                           | No                                |
| <b>S7 basic communication</b>                              | No                                |
| <b>S7 communication</b>                                    | Yes                               |
| <b>S7 communication, as client</b>                         | No                                |
| <b>S7 communication, as server</b>                         | Yes                               |
| <b>Direct data exchange (slave-to-slave communication)</b> | Yes                               |
| <b>DPV1</b>                                                | No                                |
| <b>Transfer memory</b>                                     |                                   |
| <b>Inputs</b>                                              | 244 byte                          |
| <b>Outputs</b>                                             | 244 byte                          |
| <b>2. Interface</b>                                        |                                   |
| <b>Interface type</b>                                      | PROFINET                          |
| <b>Physics</b>                                             | Ethernet RJ45                     |
| <b>isolated</b>                                            | Yes                               |
| <b>automatic detection of transmission rate</b>            | Yes ; 10/100 Mbit/s               |
| <b>Functionality</b>                                       |                                   |

|                                                      |                                                                                                                                                          |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MPI</b>                                           | No                                                                                                                                                       |
| <b>DP master</b>                                     | No                                                                                                                                                       |
| <b>DP slave</b>                                      | No                                                                                                                                                       |
| <b>PROFINET IO Controller</b>                        | Yes                                                                                                                                                      |
| <b>PROFINET IO Device</b>                            | No                                                                                                                                                       |
| <b>PROFINET CBA</b>                                  | Yes                                                                                                                                                      |
| <b>Open IE communication</b>                         | Yes                                                                                                                                                      |
| <b>Web server</b>                                    | Yes                                                                                                                                                      |
| <b>Point-to-point connection</b>                     | No                                                                                                                                                       |
| <b>PROFINET IO Controller</b>                        |                                                                                                                                                          |
| <b>Transmission rate, max.</b>                       | 100 Mbit/s                                                                                                                                               |
| <b>Number of connectable IO Devices, max.</b>        | 128                                                                                                                                                      |
| <b>Send cycles</b>                                   | 1 ms                                                                                                                                                     |
| <b>Updating time</b>                                 | 1 to 512 ms (minimum value depends on communication share set for PROFINET I/O, on the number of I/O devices, and on the volume of configured user data) |
| <b>Services</b>                                      |                                                                                                                                                          |
| <b>PG/OP communication</b>                           | Yes                                                                                                                                                      |
| <b>Routing</b>                                       | Yes                                                                                                                                                      |
| <b>S7 communication</b>                              | Yes ; With loadable FBs, max. configurable connections: 14, max. number of instances: 32                                                                 |
| <b>Open IE communication</b>                         | Yes ; Via TCP/IP, ISO on TCP, and UDP                                                                                                                    |
| <b>Address area</b>                                  |                                                                                                                                                          |
| <b>Inputs, max.</b>                                  | 2 kbyte                                                                                                                                                  |
| <b>Outputs, max.</b>                                 | 2 kbyte                                                                                                                                                  |
| <b>User data consistency, max.</b>                   | 254 byte                                                                                                                                                 |
| <b>PROFINET CBA</b>                                  |                                                                                                                                                          |
| <b>acyclic transmission</b>                          | Yes                                                                                                                                                      |
| <b>cyclic transmission</b>                           | Yes                                                                                                                                                      |
| <b>Communication functions</b>                       |                                                                                                                                                          |
| <b>PG/OP communication</b>                           | Yes                                                                                                                                                      |
| <b>Global data communication</b>                     |                                                                                                                                                          |
| <b>supported</b>                                     | Yes                                                                                                                                                      |
| <b>Number of GD loops, max.</b>                      | 8                                                                                                                                                        |
| <b>Number of GD packets, max.</b>                    | 8                                                                                                                                                        |
| <b>Number of GD packets, transmitter, max.</b>       | 8                                                                                                                                                        |
| <b>Number of GD packets, receiver, max.</b>          | 8                                                                                                                                                        |
| <b>Size of GD packets, max.</b>                      | 22 byte                                                                                                                                                  |
| <b>Size of GD packet (of which consistent), max.</b> | 22 byte                                                                                                                                                  |
| <b>S7 basic communication</b>                        |                                                                                                                                                          |

|                                                                           |                                                                                                       |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>supported</b>                                                          | Yes                                                                                                   |
| <b>User data per job, max.</b>                                            | 76 byte                                                                                               |
| <b>User data per job (of which consistent), max.</b>                      | 76 byte ; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)                   |
| <b>S7 communication</b>                                                   |                                                                                                       |
| <b>supported</b>                                                          | Yes                                                                                                   |
| <b>as server</b>                                                          | Yes                                                                                                   |
| <b>as client</b>                                                          | Yes ; via integrated PROFINET interface and loadable FB or via CP and loadable FB                     |
| <b>User data per job, max.</b>                                            | See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication) |
| <b>S5 compatible communication</b>                                        |                                                                                                       |
| <b>supported</b>                                                          | Yes ; via CP and loadable FC                                                                          |
| <b>Open IE communication</b>                                              |                                                                                                       |
| <b>TCP/IP</b>                                                             | Yes ; via integrated PROFINET interface and loadable FBs                                              |
| <b>Number of connections, max.</b>                                        | 8                                                                                                     |
| <b>Data length, max.</b>                                                  | 1460 byte ; with connection type 01H; 8192 bytes with connection type 11H                             |
| <b>ISO-on-TCP (RFC1006)</b>                                               | Yes ; via integrated PROFINET interface and loadable FBs                                              |
| <b>Number of connections, max.</b>                                        | 8                                                                                                     |
| <b>Data length, max.</b>                                                  | 8192 byte                                                                                             |
| <b>UDP</b>                                                                | Yes ; via integrated PROFINET interface and loadable FBs                                              |
| <b>Number of connections, max.</b>                                        | 8                                                                                                     |
| <b>Data length, max.</b>                                                  | 1472 byte                                                                                             |
| <b>PROFINET CBA (at set setpoint communication load)</b>                  |                                                                                                       |
| <b>Setpoint for the CPU communication load</b>                            | 50 %                                                                                                  |
| <b>Number of remote interconnection partners</b>                          | 32                                                                                                    |
| <b>Number of functions, master/slave</b>                                  | 30                                                                                                    |
| <b>Total of all master/slave connections</b>                              | 1000                                                                                                  |
| <b>Data length of all incoming connections master/slave, max.</b>         | 4000 byte                                                                                             |
| <b>Data length of all outgoing connections master/slave, max.</b>         | 4000 byte                                                                                             |
| <b>Number of device-internal and PROFIBUS interconnections</b>            | 500                                                                                                   |
| <b>Data length of device-internal und PROFIBUS interconnections, max.</b> | 4000 byte                                                                                             |
| <b>Data length per connection, max.</b>                                   | 1400 byte                                                                                             |
| <b>Remote interconnections with acyclic transmission</b>                  |                                                                                                       |
| <b>Sampling frequency: Sampling time, min.</b>                            | 500 ms                                                                                                |
| <b>Number of incoming interconnections</b>                                | 100                                                                                                   |
| <b>Number of outgoing interconnections</b>                                | 100                                                                                                   |

|                                                                    |                                                                                                         |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Data length of all incoming interconnections, max.                 | 2000 byte                                                                                               |
| Data length of all outgoing interconnections, max.                 | 2000 byte                                                                                               |
| Data length per connection, max.                                   | 1400 byte                                                                                               |
| <b>Remote interconnections with cyclic transmission</b>            |                                                                                                         |
| Transmission frequency: Transmission interval, min.                | 10 ms                                                                                                   |
| Number of incoming interconnections                                | 200                                                                                                     |
| Number of outgoing interconnections                                | 200                                                                                                     |
| Data length of all incoming interconnections, max.                 | 2000 byte                                                                                               |
| Data length of all outgoing interconnections, max.                 | 2000 byte                                                                                               |
| Data length per connection, max.                                   | 450 byte                                                                                                |
| <b>HMI variables via PROFINET (acyclic)</b>                        |                                                                                                         |
| 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.                             | 2000 byte                                                                                               |
| <b>PROFIBUS proxy functionality</b>                                |                                                                                                         |
| 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 ; max.                                                                                               |
| reserved for PG communication                                      | 1                                                                                                       |
| adjustable for PG communication, min.                              | 1                                                                                                       |
| adjustable for PG communication, max.                              | 15 ; 1 to 15                                                                                            |
| usable for OP communication                                        | 15                                                                                                      |
| reserved for OP communication                                      | 1                                                                                                       |
| adjustable for OP communication, min.                              | 1                                                                                                       |
| adjustable for OP communication, max.                              | 15 ; 1 to 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 ; 0 to 14                                                                                            |
| 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.  | 40                                                |
| <b>Test commissioning functions</b>         |                                                   |
| Status block                                | Yes                                               |
| Single step                                 | Yes                                               |
| Number of breakpoints                       | 2                                                 |
| <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                                                |
| <b>Diagnostic buffer</b>                    |                                                   |
| present                                     | Yes                                               |
| Number of entries, max.                     | 500                                               |
| adjustable                                  | No                                                |
| of which powerfail-proof                    | 100                                               |
| <b>Configuration</b>                        |                                                   |
| <b>Configuration software</b>               |                                                   |
| STEP 7                                      | Yes ; V5.4 SP2 or higher                          |
| <b>Programming</b>                          |                                                   |
| Command set                                 | see instruction list                              |
| Nesting levels                              | 8                                                 |
| System functions (SFC)                      | see instruction list                              |
| System function blocks (SFB)                | see instruction list                              |
| <b>Programming language</b>                 |                                                   |
| LAD                                         | Yes                                               |
| FBD                                         | Yes                                               |
| STL                                         | Yes                                               |
| SCL                                         | Yes                                               |
| CFC                                         | Yes                                               |
| GRAPH                                       | Yes                                               |
| HiGraph®                                    | Yes                                               |
| <b>Know-how protection</b>                  |                                                   |
| User program protection/password protection | Yes                                               |

| Dimensions      |             |
|-----------------|-------------|
| Width           | 80 mm       |
| Height          | 125 mm      |
| Depth           | 130 mm      |
| Weights         |             |
| Weight, approx. | 460 g       |
| Status          | Aug 5, 2014 |