

SIMATIC S7-300 CPU315F-2 PN/DP, Central processing unit with 512 KB work memory, 1st interface MPI/DP 12 Mbit/s, 2nd interface Ethernet PROFINET, with 2-port switch, Micro Memory Card required



Figure similar

| General information   |  |
|---|--|
| HW functional status  | 01   |
| Firmware version  | V3.2   |
| Product function  |  |
| • Isochronous mode  | Yes; Via PROFIBUS DP or PROFINET interface         |
| Engineering with  |  |
| • Programming package                                       | STEP 7 V5.5 or higher, Distributed Safety V5.4 SP4 |
| Supply voltage  |  |
| Rated value (DC)  | 24 V   |
| 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

|               |     |
|---------------|-----|
| — adjustable  | Yes |
| — lower limit | 0   |
| — upper limit | 999 |

#### IEC counter

|           |  |
|-----------|--|
| • present | Yes                                      |
| • Type    | SFB                                      |
| • 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.  |
| <b>Flag</b>                         |   |
| • Number, max.                      | 2 048 byte  |
| • Retentivity available             | Yes; MB 0 to MB 2 047   |
| • Retentivity preset                | MB 0 to MB 15   |
| • Number of clock memories          | 8; 1 memory byte  |
| <b>Data blocks</b>                  |   |
| • 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  |
| <b>Number of operable FMs and CPs (recommended)</b>       |  |
| • FM  | 8  |
| • CP, PtP   | 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)                              | 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 |
| <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 h  |
| • 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>                                     |  |
| Number of digital inputs                                  | 0  |
| <b>Digital outputs</b>                                    |  |
| Number of digital outputs                                 | 0  |
| <b>Analog inputs</b>                                      |  |
| Number of analog inputs                                   | 0  |

## Analog outputs

|                          |   |
|--------------------------|---|
| Number of analog outputs | 0 |
|--------------------------|---|

## Interfaces

|  |   |
|--|---|
| Number of industrial Ethernet interfaces | 1 |
| Number of PROFINET interfaces            | 1 |
| Number of RS 485 interfaces              | 1 |
| Number of RS 422 interfaces              | 0 |

## 1. Interface

|   |                             |
|---|-----------------------------|
| Interface type                                  | Integrated RS 485 interface |
| Isolated  | Yes                         |
| Power supply to interface (15 to 30 V DC), max. | 200 mA                      |

### Interface types

|          |     |
|----------|-----|
| • RS 485 | Yes |
|----------|-----|

### Protocols

|                             |     |
|-----------------------------|-----|
| • MPI                       | Yes |
| • PROFIBUS DP master        | Yes |
| • PROFIBUS DP slave         | Yes |
| • Point-to-point connection | No  |

### MPI

|                           |           |
|---------------------------|-----------|
| • Transmission rate, max. | 12 Mbit/s |
|---------------------------|-----------|

### Services

|                               |                                |
|-------------------------------|--------------------------------|
| — 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                            |

### PROFIBUS DP master

|                             |           |
|-----------------------------|-----------|
| • Transmission rate, max.   | 12 Mbit/s |
| • Number of DP slaves, max. | 124       |

### Services

|                               |                    |
|-------------------------------|--------------------|
| — 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>PROFIBUS 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  |

## 2. Interface

|  |                    |
|--|--------------------|
| Interface type                             | PROFINET           |
| Isolated                                   | Yes                |
| automatic detection of transmission rate   | Yes; 10/100 Mbit/s |
| Autonegotiation                            | Yes                |
| Autocrossing                               | Yes                |
| Change of IP address at runtime, supported | Yes                |

### Interface types

|   |   |
|---|---|
| • RJ 45 (Ethernet)  | Yes   |
| • Number of ports   | 2   |
| • integrated switch   | Yes   |
| <b>Protocols</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   |
| • Media redundancy  | Yes   |
| <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 |
| — 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  |
| — 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>Redundancy mode</b>                              |   |
| <b>Media redundancy</b>                             |   |
| — Switchover time on line break, typ.               | 200 ms; PROFINET MRP  |
| — Number of stations in the ring, max.              | 50  |
| <b>Open IE communication</b>                        |   |
| • TCP/IP  | Yes; via integrated PROFINET interface and loadable FBs   |

|  |   |
|--|---|
| — 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  | Yes; via integrated PROFINET interface and loadable FBs   |
| — Number of connections, max.                            | 8   |
| — Data length, max.                                      | 1 472 byte  |
| <b>Web server</b>  |   |
| • supported  | Yes; only read function   |
| • User-defined websites                                  | Yes   |
| • Number of HTTP clients                                 | 5   |
| <b>Communication functions</b>                           |   |
| PG/OP communication                                      | Yes   |
| Data record routing                                      | Yes   |
| <b>Global data communication</b>                         |   |
| • 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   |
| <b>S7 basic communication</b>                            |   |
| • 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)                    |
| <b>S7 communication</b>                                  |   |
| • 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) |
| <b>S5 compatible communication</b>                       |   |
| • supported  | Yes; via CP and loadable FC   |
| <b>PROFINET CBA (at set setpoint communication load)</b> |   |
| • 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                |
| <b>Remote interconnections with acyclic transmission</b>             |                           |
| — Sampling interval, 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                |
| <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.                 | 2 000 byte                |
| — Data length of all outgoing interconnections, max.                 | 2 000 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.                             | 2 000 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  |
| — 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. |

### S7 message functions

|  |  |
|--|--|
| 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  |

### Test commissioning functions

|                                    |   |
|------------------------------------|---|
| 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  |
| <b>Diagnostic buffer</b>           |   |
| • present                          | Yes   |

|   |     |
|---|-----|
| • Number of entries, max.                 | 500 |
| — adjustable                              | No  |
| — of which powerfail-proof                | 100 |
| • Number of entries readable in RUN, max. | 499 |
| — adjustable                              | Yes |
| — preset                                  | 10  |

|                     |     |
|---------------------|-----|
| <b>Service data</b> |     |
| • can be read out   | Yes |

### Ambient conditions

|   |       |
|---|-------|
| <b>Ambient temperature during operation</b> |       |
| • min.                                      | 0 °C  |
| • max.                                      | 60 °C |

### Configuration

|                               |                     |
|-------------------------------|---------------------|
| <b>Configuration software</b> |                     |
| • STEP 7                      | Yes; V5.5 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                        |
| • Block encryption                            | Yes; With S7 block Privacy |

### Dimensions

|        |        |
|--------|--------|
| Width  | 40 mm  |
| Height | 125 mm |
| Depth  | 130 mm |

### Weights

|                 |       |
|-----------------|-------|
| Weight, approx. | 340 g |
|-----------------|-------|

**last modified:** 12/10/2020