



Figure similar

\*\*\*spare part\*\*\* SIPLUS S7-300 CPU 317F-2DP based on 6ES7317-6FF04-0AB0 with conformal coating, -25...+60 °C, central processing unit with 1.5 MB work memory, 1st interface MPI/DP 12 Mbps, 2nd interface DP master/ device, Micro Memory Card required can be used with software package S7 Distributed Safety V5.2 SP1 or higher

| General information                                         |                                                                                               |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Product type designation                                    | CPU 317F-2 DP                                                                                 |
| based on                                                    | <a href="#">6ES7317-6FF04-0AB0</a>                                                            |
| Engineering with                                            |                                                                                               |
| • Programming package                                       | STEP 7 V5.5 + SP1 or higher or STEP 7 V5.2 + SP1 or higher with HSP 202 + Distributed Safety  |
| Supply voltage                                              |                                                                                               |
| Rated value (DC)                                            | 24 V                                                                                          |
| permissible range, lower limit (DC)                         | 19.2 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)                           | 870 mA                                                                                        |
| Current consumption (in no-load operation), typ.            | 120 mA                                                                                        |
| Inrush current, typ.                                        | 4 A                                                                                           |
| I <sup>2</sup> t                                            | 1 A <sup>2</sup> s                                                                            |
| Power loss                                                  |                                                                                               |
| Power loss, typ.                                            | 4.5 W                                                                                         |
| Storage                                                     |                                                                                               |
| Work memory                                                 |                                                                                               |
| • integrated                                                | 1 536 kbyte                                                                                   |
| • expandable                                                | No                                                                                            |
| Load memory                                                 |                                                                                               |
| • Plug-in (MMC)                                             | Yes                                                                                           |
| • Plug-in (MMC), max.                                       | 8 Mbyte                                                                                       |
| • Data management on MMC (after last programming), min.     | 10 a                                                                                          |
| Backup                                                      |                                                                                               |
| • present                                                   | Yes; Guaranteed by MMC (maintenance-free)                                                     |
| • without battery                                           | Yes; Program and data                                                                         |
| CPU processing times                                        |                                                                                               |
| for bit operations, typ.                                    | 0.025 µs                                                                                      |
| for word operations, typ.                                   | 0.03 µs                                                                                       |
| for fixed point arithmetic, typ.                            | 0.04 µs                                                                                       |
| for floating point arithmetic, typ.                         | 0.16 µs                                                                                       |
| CPU-blocks                                                  |                                                                                               |
| Number of blocks (total)                                    | 2 048; (DBs, FCs, FBs); the maximum number of loadable blocks can be reduced by the MMC used. |
| DB                                                          |                                                                                               |

|                                                           |                                          |
|-----------------------------------------------------------|------------------------------------------|
| • Number, max.                                            | 2 048; Number range: 1 to 16000          |
| • Size, max.                                              | 64 kbyte                                 |
| FB                                                        |                                          |
| • Number, max.                                            | 2 048; Number range: 0 to 7999           |
| • Size, max.                                              | 64 kbyte                                 |
| FC                                                        |                                          |
| • Number, max.                                            | 2 048; Number range: 0 to 7999           |
| • Size, max.                                              | 64 kbyte                                 |
| OB                                                        |                                          |
| • Number, max.                                            | see instruction list                     |
| • 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                        | 5; OB 80, 82, 85, 86, 87                 |
| • 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                                                  | 512                                      |
| Retentivity                                               |                                          |
| — can be set                                              | Yes                                      |
| — preset                                                  | Z 0 to Z 7                               |
| Counting range                                            |                                          |
| — lower limit                                             | 0                                        |
| — upper limit                                             | 999                                      |
| IEC counter                                               |                                          |
| • present                                                 | Yes                                      |
| • Type                                                    | SFB                                      |
| • Number                                                  | Unlimited (limited only by RAM capacity) |
| S7 timer                                                  |                                          |
| • Number                                                  | 512                                      |
| Retentivity                                               |                                          |
| — adjustable                                              | Yes                                      |
| — 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 (incl. timers, counters, flags), max. | 256 kbyte                                |
| Flag                                                      |                                          |
| • Size, max.                                              | 4 096 byte                               |
| • Retentivity available                                   | Yes; From MB 0 to MB 4 095               |
| • Retentivity preset                                      | MB 0 to MB 15                            |
| • Number of clock memories                                | 8; 1 memory byte                         |
| Data blocks                                               |                                          |
| • Retentivity adjustable                                  | Yes; via non-retain property on DB       |
| • Retentivity preset                                      | Yes                                      |

|                                                           |                                                                           |
|-----------------------------------------------------------|---------------------------------------------------------------------------|
| Local data                                                |                                                                           |
| • per priority class, max.                                | 32 768 byte; Max. 2048 bytes per block                                    |
| Address area                                              |                                                                           |
| I/O address area                                          |                                                                           |
| • Inputs                                                  | 8 192 byte                                                                |
| • Outputs                                                 | 8 192 byte                                                                |
| of which distributed                                      |                                                                           |
| — Inputs                                                  | 8 192 byte                                                                |
| — Outputs                                                 | 8 192 byte                                                                |
| Process image                                             |                                                                           |
| • Inputs                                                  | 8 192 byte                                                                |
| • Outputs                                                 | 8 192 byte                                                                |
| • Inputs, adjustable                                      | 8 192 byte                                                                |
| • Outputs, adjustable                                     | 8 192 byte                                                                |
| • Inputs, default                                         | 1 024 byte                                                                |
| • Outputs, default                                        | 1 024 byte                                                                |
| Subprocess images                                         |                                                                           |
| • Number of subprocess images, max.                       | 1                                                                         |
| Digital channels                                          |                                                                           |
| • Inputs                                                  | 65 536                                                                    |
| — of which central                                        | 1 024                                                                     |
| • Outputs                                                 | 65 536                                                                    |
| — of which central                                        | 1 024                                                                     |
| Analog channels                                           |                                                                           |
| • Inputs                                                  | 4 096                                                                     |
| — of which central                                        | 256                                                                       |
| • Outputs                                                 | 4 096                                                                     |
| — of which central                                        | 256                                                                       |
| Hardware configuration                                    |                                                                           |
| Number of expansion units, max.                           | 3                                                                         |
| Number of DP masters                                      |                                                                           |
| • integrated                                              | 2                                                                         |
| • 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 | the clock continues at the time of day it had when power was switched off |
| Operating hours counter                                   |                                                                           |
| • Number                                                  | 4                                                                         |
| • Number/Number range                                     | 0 to 3                                                                    |
| • 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                                    |
| Clock synchronization                                     |                                                                           |
| • supported                                               | Yes                                                                       |
| • to MPI, master                                          | Yes                                                                       |
| • on MPI, device                                          | Yes                                                                       |
| • to DP, master                                           | Yes; With DP slave only slave clock                                       |

|                                                                                |                                          |
|--------------------------------------------------------------------------------|------------------------------------------|
| • on DP, device                                                                | Yes                                      |
| • in AS, master                                                                | Yes                                      |
| • in AS, device                                                                | Yes                                      |
| • on Ethernet via NTP                                                          | No                                       |
| <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                                        |
| <b>Interfaces</b>                                                              |                                          |
| Number of PROFINET interfaces                                                  | 0                                        |
| Number of RS 485 interfaces                                                    | 2                                        |
| Number of RS 422 interfaces                                                    | 0                                        |
| <b>1. Interface</b>                                                            |                                          |
| Interface type                                                                 | Integrated RS 485 interface              |
| Isolated                                                                       | Yes                                      |
| <b>Interface types</b>                                                         |                                          |
| • RS 485                                                                       | Yes                                      |
| • Output current of the interface, max.                                        | 200 mA                                   |
| <b>Protocols</b>                                                               |                                          |
| • MPI                                                                          | Yes                                      |
| • PROFIBUS DP master                                                           | Yes                                      |
| • PROFIBUS DP device                                                           | 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; Only server, configured on one side |
| — S7 communication, as client                                                  | No; but via CP and loadable FB           |
| — S7 communication, as server                                                  | Yes                                      |
| <b>PROFIBUS DP master</b>                                                      |                                          |
| • Transmission rate, max.                                                      | 12 Mbit/s                                |
| • max. number of DP devices                                                    | 124                                      |
| <b>Services</b>                                                                |                                          |
| — PG/OP communication                                                          | Yes                                      |
| — Routing                                                                      | Yes                                      |
| — Global data communication                                                    | No                                       |
| — S7 basic communication                                                       | Yes; I blocks only                       |
| — S7 communication                                                             | Yes; Only server, configured on one side |
| — S7 communication, as client                                                  | No                                       |
| — S7 communication, as server                                                  | Yes                                      |
| — Equidistance                                                                 | Yes                                      |
| — Isochronous mode                                                             | No                                       |
| — SYNC/FREEZE                                                                  | Yes                                      |
| — activation/deactivation of DP devices                                        | Yes                                      |
| — max. number of DP devices that can be activated/deactivated at the same time | 8                                        |
| — Direct data exchange (slave-to-slave communication)                          | Yes; as subscriber                       |
| — DPV1                                                                         | Yes                                      |
| <b>Address area</b>                                                            |                                          |
| — Inputs, max.                                                                 | 8 kbyte                                  |
| — Outputs, max.                                                                | 8 kbyte                                  |
| <b>User data per DP device</b>                                                 |                                          |

|                                                                                |                                                  |
|--------------------------------------------------------------------------------|--------------------------------------------------|
| — Inputs, max.                                                                 | 244 byte                                         |
| — Outputs, max.                                                                | 244 byte                                         |
| <b>PROFIBUS DP device</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; Only server, configured on one side         |
| — 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                                                                 | Integrated RS 485 interface                      |
| Isolated                                                                       | Yes                                              |
| <b>Interface types</b>                                                         |                                                  |
| • RS 485                                                                       | Yes                                              |
| • Output current of the interface, max.                                        | 200 mA                                           |
| <b>Protocols</b>                                                               |                                                  |
| • MPI                                                                          | No                                               |
| • PROFIBUS DP master                                                           | Yes                                              |
| • PROFIBUS DP device                                                           | Yes                                              |
| • Point-to-point connection                                                    | No                                               |
| <b>PROFIBUS DP master</b>                                                      |                                                  |
| • Transmission rate, max.                                                      | 12 Mbit/s                                        |
| • max. number of DP devices                                                    | 124                                              |
| <b>Services</b>                                                                |                                                  |
| — PG/OP communication                                                          | Yes                                              |
| — Routing                                                                      | Yes                                              |
| — Global data communication                                                    | No                                               |
| — S7 basic communication                                                       | Yes; I blocks only                               |
| — S7 communication                                                             | Yes; Only server, configured on one side         |
| — S7 communication, as client                                                  | No; but via CP and loadable FB                   |
| — S7 communication, as server                                                  | Yes                                              |
| — Equidistance                                                                 | Yes                                              |
| — Isochronous mode                                                             | Yes; OB 61                                       |
| — SYNC/FREEZE                                                                  | Yes                                              |
| — activation/deactivation of DP devices                                        | Yes                                              |
| — max. number of DP devices that can be activated/deactivated at the same time | 8                                                |
| — Direct data exchange (slave-to-slave communication)                          | Yes; as subscriber                               |
| — DPV1                                                                         | Yes                                              |
| <b>Address area</b>                                                            |                                                  |
| — Inputs, max.                                                                 | 8 192 byte                                       |
| — Outputs, max.                                                                | 8 192 byte                                       |
| <b>User data per DP device</b>                                                 |                                                  |
| — Inputs, max.                                                                 | 244 byte                                         |
| — Outputs, max.                                                                | 244 byte                                         |
| <b>PROFIBUS DP device</b>                                                      |                                                  |
| • GSD file                                                                     | The latest GSD file is available on the Internet |

- Transmission rate, max.
- automatic baud rate search
- Address area, max.
- User data per address area, max.

12 Mbit/s  
Yes; only with passive interface  
32  
32 byte

#### Services

- PG/OP communication
- Routing
- Global data communication
- S7 basic communication
- S7 communication
- S7 communication, as client
- S7 communication, as server
- Direct data exchange (slave-to-slave communication)
- DPV1

Yes  
Yes; Only with active interface  
No  
No  
Yes; Only server, configured on one side  
No; but via CP and loadable FB  
Yes  
Yes  
No

#### Transfer memory

- Inputs
- Outputs

244 byte  
244 byte

#### Protocols

PROFIsafe

No

#### Communication functions

PG/OP communication

Yes

Data record routing

Yes

#### Global data communication

- supported
- Number of GD loops, max.
- Number of GD packets, max.
- Number of GD packets, transmitter, max.
- Number of GD packets, receiver, max.
- Size of GD packets, max.
- Size of GD packet (of which consistent), max.

Yes  
8  
8  
8  
8  
22 byte  
22 byte

#### S7 basic communication

- supported
- User data per job, max.
- User data per job (of which consistent), max.

Yes  
76 byte  
76 byte; 76 bytes (with X\_SEND or X\_RCV); 64 bytes (with X\_PUT or X\_GET as server)

#### S7 communication

- supported
- as server
- as client
- User data per job, max.

Yes  
Yes  
Yes; Via CP and loadable FB  
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

#### Number of connections

- overall
- usable for PG communication
  - reserved for PG communication
  - adjustable for PG communication, min.
  - adjustable for PG communication, max.
- usable for OP communication
  - reserved for OP communication
  - adjustable for OP communication, min.
  - adjustable for OP communication, max.
- usable for S7 basic communication
  - reserved for S7 basic communication
  - adjustable for S7 basic communication, min.
  - adjustable for S7 basic communication, max.
- usable for routing

32  
31  
1  
1  
31  
31  
1  
1  
31  
30  
0  
0  
30  
X1 as a MPI, max. 10; X1 as DP Master max. 24; X1 as DP Slave (active) max.

**S7 message functions**

|                                                      |                                                                                  |
|------------------------------------------------------|----------------------------------------------------------------------------------|
| Number of login stations for message functions, max. | 32; 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                           |

**Status/control**

|                                    |                                                   |
|------------------------------------|---------------------------------------------------|
| • 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                                                |

**Forcing**

|                             |                 |
|-----------------------------|-----------------|
| • Forcing                   | Yes             |
| • Forcing, variables        | Inputs, outputs |
| • Number of variables, max. | 10              |

**Diagnostic buffer**

|                                           |                                             |
|-------------------------------------------|---------------------------------------------|
| • present                                 | Yes                                         |
| • Number of entries, max.                 | 500                                         |
| — can be set                              | No                                          |
| — of which powerfail-proof                | 100; Only the last 100 entries are retained |
| • Number of entries readable in RUN, max. | 499                                         |
| — can be set                              | Yes; From 10 to 499                         |
| — preset                                  | 10                                          |

**Service data**

|                   |     |
|-------------------|-----|
| • Can be read out | Yes |
|-------------------|-----|

**Standards, approvals, certificates**

|                       |     |
|-----------------------|-----|
| CE mark               | Yes |
| UL approval           | Yes |
| KC approval           | Yes |
| EAC (formerly Gost-R) | Yes |

**Use in hazardous areas**

|        |     |
|--------|-----|
| • ATEX | Yes |
|--------|-----|

**Ambient conditions**

|                                      |                |
|--------------------------------------|----------------|
| Ambient temperature during operation |                |
| • min.                               | -25 °C; = Tmin |
| • max.                               | 60 °C; = Tmax  |

**Ambient temperature during storage/transportation**

|        |        |
|--------|--------|
| • min. | -40 °C |
| • max. | 70 °C  |

**Altitude during operation relating to sea level**

|                                                        |                                                                |
|--------------------------------------------------------|----------------------------------------------------------------|
| • Installation altitude above sea level, max.          | 2 000 m                                                        |
| • Ambient air temperature-barometric pressure-altitude | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) |

**Relative humidity**

|                                                                     |                                                                                     |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| • With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation/frost (no commissioning under condensation conditions) |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------|

**Resistance**

|                                                               |                                                                                                    |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Use in stationary industrial systems                          |                                                                                                    |
| — to biologically active substances according to EN 60721-3-3 | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request |
| — to chemically active substances according to EN 60721-3-3   | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *           |
| — to mechanically active substances according to EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust, *                                                                 |
| Use on ships/at sea                                           |                                                                                                    |
| — to biologically active substances according to EN           | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on                              |

|                                                                                                             |                                                                                                                                                                                     |         |                |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------|
| 60721-3-6                                                                                                   | request                                                                                                                                                                             |         |                |
| — to chemically active substances according to EN 60721-3-6                                                 | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *                                                                                            |         |                |
| — to mechanically active substances according to EN 60721-3-6                                               | Yes; Class 6S3 incl. sand, dust; *                                                                                                                                                  |         |                |
| Usage in industrial process technology                                                                      |                                                                                                                                                                                     |         |                |
| — Against chemically active substances acc. to EN 60654-4                                                   | Yes; Class 3 (excluding trichlorethylene)                                                                                                                                           |         |                |
| — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04                | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) |         |                |
| Remark                                                                                                      |                                                                                                                                                                                     |         |                |
| — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 | * The supplied plug covers must remain in place over the unused interfaces during operation!                                                                                        |         |                |
| Configuration                                                                                               |                                                                                                                                                                                     |         |                |
| Configuration software                                                                                      |                                                                                                                                                                                     |         |                |
| • STEP 7                                                                                                    | Yes; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203                                                                                                        |         |                |
| • STEP 7 Lite                                                                                               | No                                                                                                                                                                                  |         |                |
| 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.                                                                                             | 360 g                                                                                                                                                                               |         |                |
| Classifications                                                                                             |                                                                                                                                                                                     |         |                |
|                                                                                                             |                                                                                                                                                                                     | Version | Classification |
|                                                                                                             | eClass                                                                                                                                                                              | 16      | 27-24-22-07    |
|                                                                                                             | eClass                                                                                                                                                                              | 14      | 27-24-22-07    |
|                                                                                                             | eClass                                                                                                                                                                              | 12      | 27-24-22-07    |
|                                                                                                             | eClass                                                                                                                                                                              | 9.1     | 27-24-22-07    |
|                                                                                                             | eClass                                                                                                                                                                              | 9       | 27-24-22-07    |
|                                                                                                             | eClass                                                                                                                                                                              | 8       | 27-24-22-07    |
|                                                                                                             | eClass                                                                                                                                                                              | 7.1     | 27-24-22-07    |
|                                                                                                             | eClass                                                                                                                                                                              | 6       | 27-24-22-07    |
|                                                                                                             | ETIM                                                                                                                                                                                | 10      | EC000236       |
|                                                                                                             | ETIM                                                                                                                                                                                | 9       | EC000236       |
|                                                                                                             | ETIM                                                                                                                                                                                | 8       | EC000236       |
|                                                                                                             | ETIM                                                                                                                                                                                | 7       | EC000236       |
|                                                                                                             | IDEA                                                                                                                                                                                | 4       | 3565           |
|                                                                                                             | UNSPSC                                                                                                                                                                              | 15      | 32-15-17-05    |

Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)

[China RoHS](#)



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|                          |     |                                |  |                   |  |
|--------------------------|-----|--------------------------------|--|-------------------|--|
| General Product Approval | EMV | For use in hazardous locations |  | Functional Safety |  |
|--------------------------|-----|--------------------------------|--|-------------------|--|



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Test Certificates

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12/8/2024