6AG1315-2EH14-7AB0

Data sheet



SIPLUS S7-300 CPU 315-2PN/DP based on 6ES7315-2EH14-0AB0 with conformal coating, -25...+70 °C, central processing unit with 384 KB work memory, 1st interface MPI/DP 12 Mbps, 2nd interface Ethernet PROFINET, with 2-port switch, Micro Memory Card required

| General information | |
|---|--|
| Product type designation | CPU 315-2 PN/DP |
| based on | 6ES7315-2EH14-0AB0 |
| Product function | |
| Isochronous mode | Yes; Via PROFIBUS DP or PROFINET interface |
| Engineering with | |
| Programming package | STEP 7 V5.5 or higher |
| 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 |
| I²t | 1 A ² ·s |
| Power loss | |
| Power loss, typ. | 4.65 W |
| Memory | |
| Work memory | |
| • integrated | 384 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. | 0.05 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 |
| — 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 |
| — preset | No retentivity |
| Time range | |
| — lower limit | 10 ms |
| | 9 990 s |
| — upper limit IEC timer | 0 000 0 |
| | Vac |
| • present | Yes |
| • Type | SFB Unlimited (limited only by DAM conseity) |
| Number Potential of the impotential to the im | Unlimited (limited only by RAM capacity) |
| Data areas and their retentivity | 40011.4 |
| Retentive data area (incl. timers, counters, flags), max. | 128 kbyte |
| Flag | |
| • Size, 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 |
| Data blocks | |
| Retentivity adjustable | Yes; via non-retain property on DB |

| Retentivity preset | Yes |
|--|--|
| Local data | 100 |
| • per priority class, max. | 32 768 byte; Max. 2048 bytes per block |
| Address area | 12 . 12 aylo,a 20 . 0 ayloo por blook |
| I/O address area | |
| • Inputs | 2 048 byte |
| • Outputs | 2 048 byte |
| of which distributed | 20.03,10 |
| — Inputs | 2 048 byte |
| — Outputs | 2 048 byte |
| Process image | |
| • 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 |
| Subprocess images | |
| Number of subprocess images, max. | 1; With PROFINET IO, the length of the user data is limited to 1600 bytes |
| Digital channels | |
| Inputs | 16 384 |
| — of which central | 1 024 |
| Outputs | 16 384 |
| — of which central | 1 024 |
| Analog channels | |
| • Inputs | 1 024 |
| — of which central | 256 |
| Outputs | 1 024 |
| — of which central | 256 |
| Hardware configuration | |
| Number of expansion units, max. | 3 |
| Number of DP masters | |
| • integrated | 1 |
| • via CP | 4 |
| Number of operable FMs and CPs (recommended) | |
| • FM | 8 |
| • CP, PtP | 8 |
| • CP, LAN | 10 |
| Rack | 4 |
| Racks, max. Modules per rack, max. | 4 |
| Modules per rack, max. | |
| Time of day | 8 |
| Time of day | 0 |
| Clock | |
| Clock • Hardware clock (real-time) | Yes |
| Clock • Hardware clock (real-time) • retentive and synchronizable | Yes Yes |
| Clock • Hardware clock (real-time) • retentive and synchronizable • Backup time | Yes Yes 6 wk; At 40 °C ambient temperature |
| Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. | Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s |
| Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON | Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF |
| Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period | Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s |
| Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter | Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off |
| Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number | Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off |
| Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number/Number range | Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 |
| Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number Range of values | Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101) |
| Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number Range of values Granularity | Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101) 1 h |
| Clock • Hardware clock (real-time) • retentive and synchronizable • Backup time • Deviation per day, max. • Behavior of the clock following POWER-ON • Behavior of the clock following expiry of backup period Operating hours counter • Number • Number/Number range • Range of values • Granularity • retentive | Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101) |
| Clock • Hardware clock (real-time) • retentive and synchronizable • Backup time • Deviation per day, max. • Behavior of the clock following POWER-ON • Behavior of the clock following expiry of backup period Operating hours counter • Number • Number/Number range • Range of values • Granularity • retentive Clock synchronization | Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101) 1 h |
| Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number Range of values Granularity retentive Clock synchronization supported | Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101) 1 h Yes; Must be restarted at each restart |
| Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number Range of values Granularity retentive Clock synchronization supported to MPI, master | Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101) 1 h Yes; Must be restarted at each restart |
| Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number Range of values Granularity retentive Clock synchronization supported | Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101) 1 h Yes; Must be restarted at each restart Yes Yes |

| on DD device | Van |
|--|---|
| • on DP, device | Yes |
| • in AS, master | Yes |
| • in AS, device | Yes |
| on Ethernet via NTP Digital inputs | Yes; As client |
| Number of digital inputs | 0 |
| Digital outputs | |
| Number of digital outputs | 0 |
| Analog inputs | |
| Number of analog inputs | 0 |
| Interfaces | |
| Number of PROFINET interfaces | 1; 2 ports (switch) RJ45 |
| Number of RS 485 interfaces | 1; Combined MPI / PROFIBUS DP |
| Number of RS 422 interfaces | 0 |
| 1. Interface | |
| Interface type | Integrated RS 485 interface |
| Isolated | Yes |
| Interface types | |
| • RS 485 | Yes |
| Output current of the interface, max. | 200 mA |
| Protocols | |
| • MPI | Yes |
| PROFIBUS DP master | Yes |
| PROFIBUS DP device | Yes |
| Point-to-point connection | No |
| MPI | |
| Transmission rate, max. | 12 Mbit/s |
| Services | |
| — PG/OP communication | Yes |
| — Routing | Yes |
| — Global data communication | Yes Yes |
| — S7 basic communication— 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 |
| max. number of DP devices | 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 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 |
| Address area | |
| — Inputs, max. | 2 kbyte |
| — Outputs, max. | 2 kbyte |
| 1st interface / DP master / payload data per DP Device / heade | |
| — Inputs, max. | 244 byte |

| Outpute may | 244 byta |
|---|---|
| — Outputs, max. 1st interface / PROFIBUS DP device / header | 244 byte |
| | 12 Mbit/o |
| 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 |
| Services | W. |
| — 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 |
| Transfer memory | |
| — Inputs | 244 byte |
| — Imputs — Outputs | 244 byte |
| 2. Interface | LTT DYIC |
| | DDOEINET |
| Interface type | PROFINET |
| Isolated | Yes |
| automatic detection of transmission rate | Yes; 10/100 Mbit/s Yes |
| Autonogotiation | Yes |
| Autocrossing | |
| Change of IP address at runtime, supported | Yes |
| Interface types | V |
| • RJ 45 (Ethernet) | Yes |
| Number of ports | 2 |
| integrated switch | Yes |
| Protocols | M- |
| • 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 device | No |
| Open IE communication | Yes; Via TCP/IP, ISO on TCP, and UDP |
| Web server | Yes |
| Media redundancy | Yes |
| PROFINET IO Controller | |
| Transmission rate, max. | 100 Mbit/s |
| Services | |
| — 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 | 165 |
| North and I O devices with a device of the atom and | Yes |
| Number of IO devices with prioritized startup, max. | |
| Number of IO devices with prioritized startup, max. Number of connectable IO Devices, max. | Yes |
| | Yes 32 |
| — Number of connectable IO Devices, max. | Yes 32 128 |
| — Number of connectable IO Devices, max.— Of which IO devices with IRT, max. | Yes 32 128 64 |
| Number of connectable IO Devices, max. Of which IO devices with IRT, max. of which in line, max. Number of IO Devices with IRT and the option "high | Yes 32 128 64 64 |
| Number of connectable IO Devices, max. Of which IO devices with IRT, max. of which in line, max. Number of IO Devices with IRT and the option "high flexibility" | Yes 32 128 64 64 128 |

| 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) |
| Address area | |
| — Inputs, max. | 2 kbyte |
| — Outputs, max. | 2 kbyte |
| User data consistency, max. | 1 024 byte |
| PROFINET IO Device | |
| Services | |
| 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 |
| — PROFlenergy | Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device |
| — Shared device | Yes |
| Number of IO Controllers with shared device, max. | 2 |
| Transfer memory | |
| — Inputs, max. | 1 440 byte; Per IO Controller with shared device |
| — Outputs, max. | 1 440 byte; Per IO Controller with shared device |
| Submodules | |
| — Number, max. | 64 |
| User data per submodule, max. | 1 024 byte |
| PROFINET CBA | |
| acyclic transmission | Yes |
| cyclic transmission | Yes |
| Open IE communication | |
| Number of connections, max. | 8 |
| Local port numbers used at the system end | 0, 20, 21, 25, 80, 102, 135, 161, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535 |
| Keep-alive function, supported | Yes |
| Protocols | |
| PROFIsafe | No |
| Redundancy mode | |
| Media redundancy | |
| Switchover time on line break, typ. | 200 ms; PROFINET MRP |
| Number of stations in the ring, max. | 50 |
| Open IE communication | |
| | |
| · | Yes: via integrated PROFINET interface and loadable ERs |
| • TCP/IP | Yes; via integrated PROFINET interface and loadable FBs |
| TCP/IP — Number of connections, max. | 8 |
| TCP/IP — Number of connections, max. — Data length for connection type 01H, max. | 8 1 460 byte |
| TCP/IP Number of connections, max. Data length for connection type 01H, max. Data length for connection type 11H, max. | 8 1 460 byte 32 768 byte |
| TCP/IP Number of connections, max. Data length for connection type 01H, max. Data length for connection type 11H, max. several passive connections per port, supported | 8 1 460 byte 32 768 byte Yes |
| TCP/IP Number of connections, max. Data length for connection type 01H, max. Data length for connection type 11H, max. several passive connections per port, supported ISO-on-TCP (RFC1006) | 8 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs |
| TCP/IP Number of connections, max. Data length for connection type 01H, max. Data length for connection type 11H, max. several passive connections per port, supported ISO-on-TCP (RFC1006) Number of connections, max. | 8 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs 8 |
| TCP/IP Number of connections, max. Data length for connection type 01H, max. Data length for connection type 11H, max. several passive connections per port, supported ISO-on-TCP (RFC1006) Number of connections, max. Data length, max. | 8 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs 8 32 768 byte |
| TCP/IP Number of connections, max. Data length for connection type 01H, max. Data length for connection type 11H, max. several passive connections per port, supported ISO-on-TCP (RFC1006) Number of connections, max. Data length, max. | 8 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs 8 32 768 byte Yes; via integrated PROFINET interface and loadable FBs |
| TCP/IP Number of connections, max. Data length for connection type 01H, max. Data length for connection type 11H, max. several passive connections per port, supported ISO-on-TCP (RFC1006) Number of connections, max. Data length, max. UDP Number of connections, max. | 8 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs 8 32 768 byte Yes; via integrated PROFINET interface and loadable FBs 8 |
| TCP/IP Number of connections, max. Data length for connection type 01H, max. Data length for connection type 11H, max. several passive connections per port, supported ISO-on-TCP (RFC1006) Number of connections, max. Data length, max. UDP Number of connections, max. Data length, max. | 8 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs 8 32 768 byte Yes; via integrated PROFINET interface and loadable FBs |
| TCP/IP Number of connections, max. Data length for connection type 01H, max. Data length for connection type 11H, max. several passive connections per port, supported ISO-on-TCP (RFC1006) Number of connections, max. Data length, max. UDP Number of connections, max. Data length, max. Data length, max. Web server | 8 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs 8 32 768 byte Yes; via integrated PROFINET interface and loadable FBs 8 1 472 byte |
| TCP/IP Number of connections, max. Data length for connection type 01H, max. Data length for connection type 11H, max. several passive connections per port, supported ISO-on-TCP (RFC1006) Number of connections, max. Data length, max. UDP Number of connections, max. Data length, max. Data length, max. Web server supported | 8 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs 8 32 768 byte Yes; via integrated PROFINET interface and loadable FBs 8 1 472 byte Yes |
| TCP/IP Number of connections, max. Data length for connection type 01H, max. Data length for connection type 11H, max. several passive connections per port, supported ISO-on-TCP (RFC1006) Number of connections, max. Data length, max. UDP Number of connections, max. Data length, max. Data length, max. Web server | 8 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs 8 32 768 byte Yes; via integrated PROFINET interface and loadable FBs 8 1 472 byte |

| communication functions / header | |
|---|---|
| PG/OP communication | Yes |
| Data record routing | Yes |
| Global data communication | |
| • supported | Yes |
| Number of GD loops, max. | 8 |
| Number of GD packets, max. | 8 |
| Number of GD packets, transmitter, max. | 8 |
| Number of GD packets, receiver, max. | 8 |
| Size of GD packets, max. | 22 byte |
| Size of GD packet (of which consistent), max. | 22 byte |
| S7 basic communication | |
| supported | Yes |
| User data per job, max. | 76 byte |
| User data per job (of which consistent), max. | 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET |
| S7 communication | as server) |
| • supported | Yes |
| as server | Yes |
| as server as client | Yes; via integrated PROFINET interface and loadable FB or via CP and |
| - ao onom | loadable FB |
| User data per job, max. | See online help of STEP 7 (shared parameters of the SFBs/FBs and of the |
| CE compatible communication | SFCs/FCs of S7 Communication) |
| S5 compatible communication | Yes; via CP and loadable FC |
| supported communication functions / PROFINET CBA (with set target communication functions) | |
| Setpoint for the CPU communication load | 50 % |
| Number of remote interconnection partners | 32 |
| number of master/device functions | 30 |
| total of all master/device connections | 1 000 |
| data length of all incoming master/device connections, | 4 000 byte |
| max. • data length of all outgoing master/device connections, | 4 000 byte |
| max. • Number of device-internal and PROFIBUS | 500 |
| interconnections | |
| Data length of device-internal und PROFIBUS interconnections, max. | 4 000 byte |
| Data length per connection, max. | 1 400 byte |
| performance data / PROFINET CBA / remote interconnection / | / with acyclic transfer / header |
| — 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 volume / as user data for remote interconnections / in the case of acyclic transmission / with PROFINET CBA / per connection / maximum | 1 400 byte |
| performance data / PROFINET CBA / remote interconnection / | / with cyclic transfer / header |
| — 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 volume / as user data for remote interconnections / with cyclical transfer / with PROFINET CBA / per connection / maximum | 450 byte |
| performance data / PROFINET CBA / HMI variables via PROF | FINET / acyclic / header |
| 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 |
| performance data / PROFINET CBA / PROFIBUS proxy function | onality / header |

| | v |
|--|--|
| — supported | Yes |
| Number of linked PROFIBUS devices | 16 |
| — Data length per connection, max. | 240 byte; Slave-dependent |
| Number of connections • overall | 16 |
| usable for PG communication | 15 |
| reserved for PG communication | 1 |
| | |
| — adjustable for PG communication, min. | 1 |
| adjustable for PG communication, max. usable for OP communication | 15 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. |
| a double for routing | 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 |
| 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 |
| — adjustable | No |
| — of which powerfail-proof | 100; Only the last 100 entries are retained |
| Number of entries readable in RUN, max. | 499 |
| — adjustable | Yes; From 10 to 499 |
| — preset | 10 |
| Service data • can be read out | Vac |
| • can be read out Standards, approvals, certificates | Yes |
| CE mark | Yes |
| UL approval | Yes; File E239877 |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| EAC (formerly Gost-R) | Yes |
| Use in hazardous areas | |
| • ATEX | Yes |
| | |

| Relative humidity With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 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! | Ambient conditions | |
|--|---|---|
| **max.** **Ambient temperature during storage transportation **max.** **Ambient and stitude above sea level.** **initialization attitude above sea level.** **max.** **Ambient and stitude above sea level.** **max.** *max.** **max.** **max.** **max.** **max.** ** | Ambient temperature during operation | |
| Ambient temperature during storage/transportation • min: • min: • max. • Allowed using operation relating to sea level • Installation atthiction atthicti | • min. | -25 °C; = Tmin |
| Minical Company of the Company of | • max. | 70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use |
| **Misture during operation relating to sea level **Installation affitude above sea level, max. **Ambient air temperature-barometric pressure-altitude **Infall | Ambient temperature during storage/transportation | |
| All blade during operation relating to seal level In itsiliation attitude above sea level, max. Ambient air temperature-barometric pressure-altitude In itsiliation attitude above sea level, max. Ambient air temperature-barometric pressure-altitude In itsiliation attitude above sea level, max. Ambient air temperature-barometric pressure-altitude In itsiliation attitude above sea level, max. Relative humidity In itsiliation attitude above sea level, max. Relative humidity In itsiliation attitude above sea level, max. Relative humidity In itsiliation attitude above sea level, max. Relative humidity In itsiliation attitude above sea level, max. Relative humidity In itsiliation attitude above sea level, max. Relative humidity In itsiliation attitude above sea level, max. Relative humidity In itsiliation attitude above sea level, max. Relative humidity In itsiliation attitude above sea level, max. In itsiliation attitude above substances according to EN 60721-3-3. In on echanically active substances according to EN 60721-3-3. In on echanically active substances according to EN 60721-3-3. In on echanically active substances according to EN 60721-3-3. In on echanically active substances according to EN 60721-3-3. In on echanically active substances according to EN 60721-3-3. In on echanically active substances according to EN 60721-3-3. In on echanically active substances according to EN 60721-3-3. In on echanically active substances according to EN 60721-3-3. In on echanically active substances according to EN 60721-3-3. In on echanically active substances according to EN 60721-3-3. In on echanically active substa | • min. | -40 °C |
| Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude Ambient air temperature-barometric pressure-altitude air temperature-baro | • max. | 70 °C |
| Ambient air temperature-barometric pressure-altitude 1-10 kg 3-75 hPa 685 hPa (-1.000 m +2.000 m) Trimin (Timax -20 Kg 14-50 hPa 685 hPa (-1.000 m +2.000 m) Trimin (Timax -20 Kg 16-86 hPa 590 m +5.000 m +5.000 m) Relative humidity With condensation, tested in accordance with EC 60088-2-38, max. Basistance Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 — to mechanically ac | Altitude during operation relating to sea level | |
| - 10 kj at 735 hPa (+2 000 m) + 3 500 m) // Trmin (Tmax +20 kj at 858 hPa (+2 000 m) + 5 000 m) // Trmin (Tmax +20 kj at 858 hPa (+2 000 m) + 5 000 m) // Trmin (Tmax +20 kj at 858 hPa (+2 000 m) + 5 000 m) // Trmin (Tmax +20 kj at 858 max) + 10 km conditions on the conditions of the conditions act to EN 60721-3-6 and the conditions act to EN 60721-3-6 and conditions act to EN 60064-4 and ANS/ISA-71.04 and conditions act to EN 60721-1-8 (conditions act to EN 6004-1-8 (conditions act to EN 600 | Installation altitude above sea level, max. | 5 000 m |
| With condensation, tested in accordance with IEC 80086 2-38, max | Ambient air temperature-barometric pressure-altitude | Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) |
| 2.38, max. conditions) Class identification of the exception of faunal; class identification of the process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721-3-6 Class 38-1 mode, according to EN 600564-4 and ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60564-4 and ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60564-4 and ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60564-4 and ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60564-4 and ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60564-4 and ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60564-4 and ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60564-4 and ANSI/ISA-71.04 Remark — STEP 7 Yes; V5.5 or higher configuration / programming / header • Command set • Seystem function blocks (SFB) — SSE Note in the condition of the vironmental configuration / programming / header • Command set • Seystem function blocks (SFB) — SSCL — GRAPH — HiGraph® Know-how protection • Block encryption immistions With 40 mm Height — Depth 100 mm long districts and dry of spores (with the exception of faunal); Class 3B2 andd, fungus and dry of spores (with the exception of faunal); Class 3B2 andd, funds, * Yes; Class 3C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3).* Yes; Class 6B3 incl. sand, dust, * Yes; Class 6B3 incl. sand, du | Relative humidity | |
| Resistance Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to hemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically a | | |
| Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 Use on shipsirat sea — to biologically active substances according to EN 60721-3-6 — to themically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 ERMANIA — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 ERMANIA — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 — STEP 7 — Yes; Class 382 mold and fungal spores (excluding fauna); Class 683 on request 79%; Class 683 incl. sand, dust; ** Yes; Class 683 in | | conditions) |
| — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances acc. to EN 60721-3-6 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 — Environmental conditions for process, measuring and control systems acc. to EN 60721-3-0 dass 3C4 permissible); level LG3 (satt spray) and level LB3 (oil) Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60684-4 and ANSI/ISA-71.04 configuration - header Configuration - header Configuration - programming / header • Command set see instruction list • System functions (SFC) see instruction list Programming language — LLD — FBD — STL — SCL — CFC — GRAPH — Yes — HiGraph® — Yes Know-how protection • Block encryption intensions Width 40 mm Height — L95 mm L05 gibts | | |
| Class 3B3 on request The chemically active substances according to EN 60721-3-3 The mechanically active substances according to EN 60721-3-3 The mechanically active substances according to EN 60721-3-3 The mechanically active substances according to EN 60721-3-6 The chemically active substances according to EN 60721-3-6 The chemically active substances according to EN 60721-3-6 The mechanically active substances acc. to EN 60654-3-6 The mechanically active substances acc. to EN 60654-3-7.0-4 The | · · · · · · · · · · · · · · · · · · · | Vac: Class 3R2 mold fundus and dry rot enouse (with the exception of fauna): |
| 60721-3-3 | 60721-3-3 | Class 3B3 on request |
| Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances acc. to EN 6068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * Yes; Class 6S2 (Recluding trichlorethy | 60721-3-3 | degree 3); * |
| | | ,000 00 |
| 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN 60664-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/SA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug c | Use on ships/at sea | |
| 60721-3-6 - to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology - Against chemically active substances acc. to EN 60654-4 - Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 - STEP 7 - Configuration / header • Commands et • Nesting levels • System functions (SFC) • System functions (SFC) • System function blocks (SFB) - Programming language - LAD - FBD - STL - SCL - GRAPH - HiGraph® • User program protection/password protection • User program protection/password protection • Selock encryption • User program protection/password protection • Block encryption - Leight Width 40 mm Pleight Depth - On Manager - Leight - Stem - | | |
| G0721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 ANSI/ISA-71.04 *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must remain in place over the unused interfaces during operation! *The supplied plug covers must rema | | |
| Against chemically active substances acc. to EN 60654-4 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 STEP 7 Configuration / header Configuration / programming / header Notesting levels STEP 7 STEP 7 STEP 7 STEP 8 STL SCL GRAPH HiGraph® Know-how protection User program protection/password protection User program protection/password protection User program protection/password protection Step thing to the first product of the protection is the prote | | Yes; Class 6S3 incl. sand, dust; * |
| 60554-4 - Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 - Note regarding classification of environmental conditions up to the limits of EN 60721-3-3 class 3C4 permissible); level EC3 (salt spray) and level LB3 (oil) - Note regarding classification of environmental conditions up to the limits of EN 60721-3-3 class 3C4 permissible); level EC3 (salt spray) and level LB3 (oil) - Note regarding classification of environmental conditions up to the limits of EN 60721-3-3 class 3C4 permissible); level EC3 (salt spray) and level LB3 (oil) - Note regarding classification of environmental conditions up to the limits of EN 60721-3-3 class 3C4 permissible); level EC3 (salt spray) and level LB3 (oil) - The supplied LB3 (oil) - The supplied Plug covers must remain in place over the unused interfaces during operation! - The supplied Plug covers must remain in place over the unused interfaces during operation! - The supplied Plug covers must remain in place over the unused interfaces during operation! - The supplied Plug covers must remain in place over the unused interfaces during operation! - The supplied Plug covers must remain in place over the unused interfaces during operation! - The supplied Plug covers must | Usage in industrial process technology | |
| and control systems acc. to ANSI/ISA-71.04 Remark | | Yes; Class 3 (excluding trichlorethylene) |
| - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04 onfiguration / header Configuration software • STEP 7 Yes; V5.5 or higher configuration / programming / header • Command set • Nesting levels • System function blocks (SFB) Programming language - LAD - FBD - STL - SCL - CFC - GRAPH - HiGraph® Know-how protection • User program protection/password protection • User program protection/password protection • User program protection/password protection • Block encryption - Depth - Height - Depth - Degarding classification of environmental curved with subject over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! | | concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level |
| conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 onfiguration / header Configuration software • STEP 7 Yes; V5.5 or higher configuration / programming / header • 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 - STL Yes - SCL Yes - CFC Yes - GRAPH Yes - HiGraph® Yes Know-how protection • User program protection/password protection • User program protection/password protection • Block encryption Width | Remark | |
| Configuration software Yes; V5.5 or higher configuration / programming / header See instruction list • Command set see instruction list • Nesting levels 8 • System functions (SFC) see instruction list • System function blocks (SFB) see instruction list Programming language Yes — LAD Yes — FBD Yes — STL Yes — SCL Yes — CFC Yes — GRAPH Yes — HiGraph® Yes Know-how protection Yes • Block encryption Yes • Block encryption Yes Width 40 mm Height 125 mm Depth 130 mm /eights | conditions acc. to EN 60721, EN 60654-4 and | |
| ● STEP 7 configuration / programming / header ● Command set ● Nesting levels ● System functions (SFC) ● System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® Know-how protection ● User program protection/password protection ● Block encryption ■ Block encryption Width 40 mm Height Depth Depth Pes see instruction list see instruction list Yes yes Historian list Yes Yes Yes Yes Yes Yes Yes Y | onfiguration / header | |
| configuration / programming / header 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 Yes • Block encryption Yes; With S7 block Privacy imensions Width 40 mm Height 125 mm Depth 130 mm /erights 130 mm | Configuration software | |
| Command set Nesting levels System functions (SFC) System function blocks (SFB) Programming language | • STEP 7 | Yes; V5.5 or higher |
| Nesting levels System functions (SFC) see instruction list System function blocks (SFB) see instruction list Programming language — LAD — Yes — FBD — Yes — STL — Yes — SCL — Yes — CFC — GRAPH — HiGraph® Yes Know-how protection ■ User program protection/password protection ● Block encryption Yes; With S7 block Privacy Imensions Width 40 mm Height Depth 130 mm //e/ights // Instruction list see instruction list | configuration / programming / header | |
| System functions (SFC) System function blocks (SFB) Programming language — LAD — FBD — FBD — Yes — STL — SCL — CFC — GRAPH — HiGraph® Know-how protection • User program protection/password protection • Block encryption Width Height Depth Depth Programming language — LAD — Yes Yes Yes Yes Yes Yes Yes Yes | Command set | see instruction list |
| System function blocks (SFB) Programming language — LAD — FBD — FBD — STL — SCL — SCL — CFC — GRAPH — HiGraph® Know-how protection • User program protection/password protection • Block encryption Width 40 mm Height Depth 130 mm Yes Yes I Ves I Ves I Ves Yes Yes Yes Yes Yes Yes I Ves Yes I Ves Yes I Ves | Nesting levels | 8 |
| Programming language Yes — FBD Yes — STL Yes — SCL Yes — CFC Yes — HiGraph® Yes Know-how protection Yes • User program protection/password protection Yes; With S7 block Privacy imensions Yes; With S7 block Privacy Width 40 mm Height 125 mm Depth 130 mm | System functions (SFC) | see instruction list |
| - LAD - FBD - FBD - STL - STL - SCL - SCL - CFC - GRAPH - HiGraph® - User program protection/password protection - Block encryption - Block encryption - Width - Height - Depth - Depth - 130 mm - Ves - FBD - Yes - SCL - Yes - Yes - Yes - Yes - Yes - With S7 block Privacy - Timensions - Ves - Timensions - Ves - Timensions - Ves - Timensions - | System function blocks (SFB) | see instruction list |
| - FBD Yes - STL Yes - SCL Yes - CFC Yes - GRAPH Yes - HiGraph® Yes Know-how protection • User program protection/password protection Yes; With S7 block Privacy imensions Width 40 mm Height 125 mm Depth 130 mm //eights | Programming language | |
| - STL Yes Yes - CFC Yes - GRAPH Yes - HiGraph® Yes | — LAD | Yes |
| - SCL Yes Yes - CFC Yes - GRAPH Yes Yes - HiGraph® Yes Know-how protection • User program protection/password protection Yes; With S7 block Privacy imensions Width 40 mm Height 125 mm Depth 130 mm | — FBD | Yes |
| - CFC - GRAPH - HiGraph® Yes Know-how protection | — STL | Yes |
| — GRAPH — HiGraph® Yes Know-how protection | — SCL | Yes |
| — HiGraph® Know-how protection | — CFC | Yes |
| Know-how protection • User program protection/password protection • Block encryption Yes; With S7 block Privacy imensions Width 40 mm Height 125 mm Depth 130 mm | — GRAPH | Yes |
| ● User program protection/password protection ▼es; With S7 block Privacy imensions Width 40 mm Height 125 mm Depth 130 mm /eights | — HiGraph® | Yes |
| ● User program protection/password protection ▼es; With S7 block Privacy imensions Width 40 mm Height 125 mm Depth 130 mm /eights | Know-how protection | |
| Block encryption Yes; With S7 block Privacy Width 40 mm Height 125 mm Depth 130 mm Veights | · | Yes |
| Imensions Width 40 mm Height 125 mm Depth 130 mm | | |
| Width 40 mm Height 125 mm Depth 130 mm /eights | | |
| Height 125 mm Depth 130 mm /eights | | 40 mm |
| Depth 130 mm /eights | | |
| /eights | | |
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