Data sheet

6ES7515-2AN03-0AB0





SIMATIC S7-1500, CPU 1515-2 PN, central processing unit with work memory 1 MB for program and 4.5 MB for data, 1st interface: PROFINET IRT with 2-port switch, 2nd interface: PROFINET RT, 6 ns bit performance, SIMATIC Memory Card required - - approvals and certificates according to entry 109817466 at support.industry.siemens.com to be considered! - -



| General information | | |
|--|--|--|
| Product type designation | CPU 1515-2 PN | |
| HW functional status | FS04 | |
| Firmware version | V4.0 | |
| FW update possible | Yes | |
| Product function | | |
| ● I&M data | Yes; I&M0 to I&M3 | |
| • Isochronous mode | Yes; Distributed and central; with minimum OB 6x cycle of 375 μs (distributed) and 1 ms (central) | |
| SysLog | Yes | |
| Engineering with | | |
| STEP 7 TIA Portal configurable/integrated from version | V20 (FW V4.0) / V18 (FW V3.0) or higher; configurable with older TIA Portal versions as 6ES7515-2AM02-0AB0 | |
| Configuration control | | |
| via dataset | Yes | |
| Display | | |
| Screen diagonal [cm] | 6.1 cm | |
| Control elements | | |
| Number of keys | 8 | |
| Mode buttons | 2 | |
| Supply voltage | | |
| Rated value (DC) | 24 V | |
| permissible range, lower limit (DC) | 19.2 V | |
| permissible range, upper limit (DC) | 28.8 V | |
| Reverse polarity protection | Yes | |
| Mains buffering | | |
| Mains/voltage failure stored energy time | 5 ms | |
| Repeat rate, min. | 1/s | |
| Input current | | |
| Current consumption (rated value) | 0.65 A | |
| Current consumption, max. | 1.03 A | |
| Inrush current, max. | 1.15 A; Rated value | |
| l²t | 0.6 A²·s | |
| Power | | |
| Infeed power to the backplane bus | 12 W | |
| Power consumption from the backplane bus (balanced) | 6.2 W | |
| Power loss | | |
| | | |

| Power loss, typ. | 3.6 W |
|--|---|
| Memory | |
| Number of slots for SIMATIC memory card | 1 |
| SIMATIC memory card required | Yes |
| Work memory | 100 |
| integrated (for program) | 1 Mbyte |
| • integrated (for data) | 4.5 Mbyte |
| Load memory | 4.0 Mbyte |
| Plug-in (SIMATIC Memory Card), max. | 32 Gbyte |
| Backup | 02 Obylo |
| maintenance-free | Yes |
| CPU processing times | |
| for bit operations, typ. | 6 ns |
| for word operations, typ. | 7 ns |
| for fixed point arithmetic, typ. | 9 ns |
| for floating point arithmetic, typ. | 37 ns |
| CPU-blocks | or no |
| Number of elements (total) | 8 000; Blocks (OB, FB, FC, DB) and UDTs |
| DB | 0 000, Blocks (OB, 1 B, 1 O, BB) and OB 13 |
| Number range | 1 60 999; subdivided into: number range that can be used by the user: 1 |
| • Hamber range | 59 999, and number range of DBs created via SFC 86: 60 000 60 999 |
| • Size, max. | 4.5 Mbyte; For DBs with absolute addressing, the max. size is 64 KB |
| FB | |
| Number range | 0 65 535 |
| • Size, max. | 1 Mbyte |
| FC | |
| Number range | 0 65 535 |
| • Size, max. | 1 Mbyte |
| OB | |
| • Size, max. | 1 Mbyte |
| Number of free cycle OBs | 100 |
| Number of time alarm OBs | 20 |
| Number of delay alarm OBs | 20 |
| Number of cyclic interrupt OBs | 20; With minimum OB 3x cycle of 250 μs |
| Number of process alarm OBs | 50 |
| Number of DPV1 alarm OBs | 3 |
| Number of isochronous mode OBs | 2 |
| Number of technology synchronous alarm OBs | 2 |
| Number of startup OBs | 100 |
| Number of asynchronous error OBs | 4 |
| Number of synchronous error OBs | 2 |
| Number of diagnostic alarm OBs | 1 |
| Nesting depth | |
| per priority class | 24 |
| Counters, timers and their retentivity | |
| S7 counter | |
| • Number | 2 048 |
| Retentivity | |
| — adjustable | Yes |
| IEC counter | |
| • Number | Any (only limited by the main memory) |
| Retentivity | |
| — adjustable | Yes |
| S7 times | |
| Number | 2 048 |
| Retentivity | |
| — adjustable | Yes |
| IEC timer | |
| • Number | Any (only limited by the main memory) |
| Retentivity | |
| — adjustable | Yes |
| | |

| Data areas and their retentivity | |
|--|---|
| Retentive data area (incl. timers, counters, flags), max. | 512 kbyte; In total; available retentive memory for bit memories, timers, |
| | counters, DBs, and technology data (axes): 472 KB |
| Extended retentive data area (incl. timers, counters, flags), max. | 4.5 Mbyte; When using PS 6 0W 24/48/60 V DC HF |
| Flag | |
| • Size, max. | 16 kbyte |
| Number of clock memories | 8; 8 clock memory bit, grouped into one clock memory byte |
| Data blocks | |
| Retentivity adjustable | Yes |
| Retentivity preset | No |
| Local data | |
| per priority class, max. | 64 kbyte; max. 16 KB per block |
| Address area | |
| Number of IO modules | 8 192; max. number of modules / submodules |
| I/O address area | |
| • Inputs | 32 kbyte; All inputs are in the process image |
| Outputs | 32 kbyte; All outputs are in the process image |
| per integrated IO subsystem | oz nojto, / iii odipato die iii tilo processo iinago |
| — Inputs (volume) | 8 kbyte |
| Outputs (volume) | 8 kbyte |
| | O ROYLE |
| per CM/CP | 0 lybyto |
| — Inputs (volume) | 8 kbyte |
| — Outputs (volume) | 8 kbyte |
| Subprocess images | |
| Number of subprocess images, max. | 32 |
| Hardware configuration | |
| Number of distributed IO systems | 64; A distributed I/O system is characterized not only by the integration of distributed I/O via PROFINET or PROFIBUS communication modules, but also by the connection of I/O via AS-i master modules or links (e.g. IE/PB-Link) |
| Number of DP masters | |
| • Via CM | 8; A maximum of 8 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be |
| · Vid Oili | inserted in total |
| Number of IO Controllers | |
| integrated | 2 |
| • Via CM | 8; A maximum of 8 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be |
| | inserted in total |
| Rack | |
| Modules per rack, max. | 32; CPU + 31 modules |
| Number of lines, max. | 1 |
| PtP CM | |
| Number of PtP CMs | the number of connectable PtP CMs is only limited by the number of available slots |
| Fime of day | |
| Clock | |
| • Type | Hardware clock |
| Backup time | 6 wk; At 40 °C ambient temperature, typically |
| Deviation per day, max. | 10 s; Typ.: 2 s |
| Operating hours counter | |
| • Number | 16 |
| Clock synchronization | |
| • supported | Yes |
| • to DP, master | Yes; via PROFIBUS CM / CP |
| • on DP, device | Yes; via PROFIBUS CM / CP |
| | |
| • in AS, master | Yes |
| • in AS, device | Yes |
| on Ethernet via NTP | Yes |
| nterfaces | |
| Number of PROFINET interfaces | 2 |
| l. Interface | |
| Interface types | |
| RJ 45 (Ethernet) | Yes; X1 |
| | |

| integrated switch | Yes | |
|--|--|--|
| Protocols | | |
| • IP protocol | Yes; IPv4 | |
| PROFINET IO Controller | Yes | |
| PROFINET IO Device | Yes | |
| SIMATIC communication | Yes | |
| Open IE communication | Yes; Optionally also encrypted | |
| Web server | Yes | |
| Media redundancy | Yes | |
| PROFINET IO Controller | | |
| Services | | |
| — Isochronous mode | Yes | |
| — Direct data exchange | Yes; Requirement: IRT and isochronous mode (MRPD optional) | |
| — IRT | Yes | |
| — PROFlenergy | Yes; per user program | |
| — Prioritized startup | Yes; Max. 32 PROFINET devices | |
| Number of connectable IO Devices, max. | 256; in total, up to 1024 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET | |
| — Of which IO devices with IRT, max. | 64 | |
| Number of connectable IO Devices for RT, max. | 256 | |
| — of which in line, max.— Number of IO Devices that can be simultaneously | 256 8; in total across all interfaces | |
| activated/deactivated, max. | | |
| Number of IO Devices per tool, max. | 8 | |
| — Updating times | The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data | |
| — PROFINET Security Class | 1 | |
| Update time for IRT | | |
| — for send cycle of 250 μs | 250 μs to 4 ms; Note: In the case of IRT with isochronous mode, the minimum | |
| | update time of 375 μs of the isochronous OB is decisive | |
| — for send cycle of 500 μs | 500 μs to 8 ms | |
| — for send cycle of 1 ms | 1 ms to 16 ms | |
| — for send cycle of 2 ms | 2 ms to 32 ms | |
| — for send cycle of 4 ms | 4 ms to 64 ms | |
| — With IRT and parameterization of "odd" send cycles | Update time = set "odd" send clock (any multiple of 125 μs: 375 μs, 625 μs 3 875 μs) | |
| Update time for RT | | |
| — for send cycle of 250 μs | 250 μs to 128 ms | |
| — for send cycle of 500 μs | 500 μs to 256 ms | |
| — for send cycle of 1 ms | 1 ms to 512 ms | |
| — for send cycle of 2 ms | 2 ms to 512 ms | |
| — for send cycle of 4 ms | 4 ms to 512 ms | |
| PROFINET IO Device | | |
| Services | N ₂ | |
| — Isochronous mode | No Yes | |
| — IRT | Yes | |
| — PROFlenergy | Yes; per user program | |
| — Shared device | Yes | |
| Number of IO Controllers with shared device, max. | 4 | |
| — activation/deactivation of I-devices | Yes; per user program | |
| Asset management record | Yes; per user program | |
| — PROFINET Security Class | SNMP Configuration and DCP Read Only | |
| 2. Interface | | |
| Interface types | Voc. V2 | |
| RJ 45 (Ethernet) Alumber of parts | Yes; X2 | |
| Number of ports integrated quitab | 1 No | |
| • integrated switch | No | |
| Protocols • IP protocol | Vec. IDv4 | |
| IP protocol PROFINET IO Controller | Yes; IPv4 Yes | |
| PROFINET IO Controller PROFINET IO Device | Yes | |
| - I NOI INET TO DEVICE | 160 | |

| SIMATIC communication | Vec | |
|--|--|--|
| | | |
| Open IE communication Web server Yes; Optionally also encrypted Yes | | |
| | | |
| Media redundancy PROFINET IO Controller | No | |
| | | |
| Services | No | |
| — Isochronous mode | No | |
| — Direct data exchange | No | |
| — IRT | No | |
| — PROFlenergy | Yes; per user program | |
| — Prioritized startup No | | |
| Number of connectable IO Devices, max. | 32; in total, up to 1024 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET | |
| Number of connectable IO Devices for RT, max. | 32 | |
| — of which in line, max. | 32 | |
| Number of IO Devices that can be simultaneously activated/deactivated, max. | 8; in total across all interfaces | |
| Number of IO Devices per tool, max. | 8 | |
| — Updating times | The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data | |
| — PROFINET Security Class | 1 | |
| Update time for RT | | |
| — for send cycle of 1 ms | 1 ms to 512 ms | |
| PROFINET IO Device | | |
| Services | | |
| — Isochronous mode | No | |
| — IRT | No | |
| — PROFlenergy | Yes; per user program | |
| — Prioritized startup No | | |
| — Shared device Yes | | |
| Number of IO Controllers with shared device, max. | 4 | |
| activation/deactivation of I-devices | Yes; per user program | |
| Asset management record | Yes; per user program | |
| — PROFINET Security Class | SNMP Configuration and DCP Read Only | |
| Interface types | | |
| RJ 45 (Ethernet) | | |
| • 100 Mbps | Yes | |
| Autonegotiation | Yes | |
| Autocrossing | Yes | |
| Industrial Ethernet status LED | Yes | |
| Protocols | | |
| PROFIsafe | No | |
| Number of connections | | |
| Number of connections, max. | 256; via integrated interfaces of the CPU and connected CPs / CMs | |
| Number of connections reserved for ES/HMI/web | 10 | |
| Number of connections via integrated interfaces | 128 | |
| Number of S7 routing paths | 16 | |
| Redundancy mode | | |
| H-Sync forwarding | Yes | |
| Media redundancy | | |
| — Media redundancy | only via 1st interface (X1) | |
| — MRP | Yes; MRP Automanager according to IEC 62439-2 Edition 2.0, MRP Manager MRP Client | |
| — MRP interconnection, supported | | |
| — MRPD | | |
| — Switchover time on line break, typ. | | |
| — Switchover time on line break, typ. | Yes; Requirement: IRT | |
| Number of stations in the ring, may | Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD | |
| — Number of stations in the ring, max. | Yes; Requirement: IRT | |
| SIMATIC communication | Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 | |
| SIMATIC communication • PG/OP communication | Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 Yes; encryption with TLS V1.3 pre-selected | |
| SIMATIC communication | Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 | |

| C7 communication as conver | Ven | |
|--|---|--|
| S7 communication, as server | Yes | |
| S7 communication, as client | Yes | |
| User data per job, max. Onen IS communication. | See online help (S7 communication, user data size) | |
| Open IE communication • TCP/IP | Von | |
| | Yes | |
| — Data length, max. | 64 kbyte | |
| — several passive connections per port, supported | Yes | |
| • ISO-on-TCP (RFC1006) | Yes | |
| — Data length, max. | 64 kbyte | |
| • UDP | Yes | |
| — Data length, max. | 2 kbyte; 1 472 bytes for UDP broadcast | |
| — UDP multicast | Yes; max. 118 multicast circuits | |
| • DHCP | Yes | |
| • DNS | Yes | |
| • SNMP | Yes | |
| • DCP | Yes | |
| • LLDP | Yes | |
| • Encryption | Yes; Optional | |
| Web server | Voc. Standard and upor pages | |
| • HTTP | Yes; Standard and user pages | |
| • HTTPS | Yes; Standard and user pages | |
| • web API | 400 | |
| — Number of sessions, max. | 100 | |
| — number of simultaneous HTTP calls, max. | 4 | |
| — HTTP request body, max. | 131 072 byte | |
| OPC UA | Vac IIMadiumii liaanaa vaguiyad | |
| Runtime license required ORC LIA Client | Yes; "Medium" license required | |
| OPC UA Client Application authoritiestics | Yes; Data Access (registered Read/Write), Method Call Yes | |
| Application authentication Society policies | | |
| — Security policies | Available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256 | |
| — User authentication | "anonymous" or by user name & password | |
| Number of connections, max. | 10 | |
| Number of nodes of the client interfaces, recommended max. | 2 000 | |
| Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/OPC_L max. | 300 | |
| — Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. | 20 | |
| Number of elements for one call of OPC_UA_MethodGetHandleList, max. | 100 | |
| Number of simultaneous calls of the client instructions for session management, per connection, max. | 1 | |
| Number of simultaneous calls of the client instructions for data access, per connection, max. | 5 | |
| Number of registerable nodes, max. | 5 000 | |
| Number of registerable method calls of OPC_UA_MethodCall, max. | 100 | |
| Number of inputs/outputs when calling OPC_UA_MethodCall, max. | 20 | |
| OPC UA Server | Yes; data access (read, write, subscribe), method call, alarms & condition (A&C), custom address space, role-based access control | |
| Application authentication | Yes | |
| — Security policies | available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256, Aes128Sha256RsaOaep, Aes256Sha256RsaPss | |
| — User authentication | "anonymous" or by user name & password | |
| GDS support (certificate management) | Yes | |
| — Number of sessions, max. | 48 | |
| Number of accessible variables, max. | 100 000 | |
| Number of registerable nodes, max. | 20 000 | |
| Number of subscriptions per session, max. | 50 | |
| — Sampling interval, min. | 100 ms | |
| Publishing interval, min. | 100 ms | |

| Number of server methods, max. Number of inputs/outputs per server method, max. Number of monitored items, recommended max. Number of server interfaces, max. Number of nodes for user-defined server interfaces, max. Alarms and Conditions So; max. 20 concurrently running jobs each for asynchronous instru OPC_UA_ServerMethodPre and OPC_UA_ServerMethodPost 4 000; for 1 s sampling interval and 1 s send interval 10 of each "Server interfaces" / "Companion specification" type and type "Reference namespace" 30 000 Yes Number of program alarms | |
|---|--------------|
| Number of monitored items, recommended max. Number of server interfaces, max. Number of nodes for user-defined server interfaces, max. Alarms and Conditions 4 000; for 1 s sampling interval and 1 s send interval 10 of each "Server interfaces" / "Companion specification" type and type "Reference namespace" 30 000 Yes | d 20 of the |
| Number of server interfaces, max. Number of nodes for user-defined server interfaces, max. Alarms and Conditions 10 of each "Server interfaces" / "Companion specification" type and type "Reference namespace" 30 000 Yes | d 20 of the |
| Number of nodes for user-defined server interfaces, max. Alarms and Conditions type "Reference namespace" 30 000 Yes | d 20 of the |
| max. ● Alarms and Conditions Yes | |
| | |
| — Number of program alarms 200 | |
| | |
| — Number of alarms for system diagnostics 100 | |
| Further protocols | |
| MODBUS Yes; MODBUS TCP | |
| S7 message functions | |
| Number of login stations for message functions, max. 64 | |
| number of subscriptions, max. 500 | |
| number of tags/attributes for subscriptions, max. 8 000 | |
| Program alarms Yes | |
| Number of configurable program messages, max. 10 000; Program messages are generated by the "Program_Alarm | " block |
| ProDiag or GRAPH | biook, |
| Number of loadable program messages in RUN, max. 10 000 | |
| Number of simultaneously active program alarms | |
| Number of program alarms 1 000 Number of classes for system disposation | |
| Number of alarms for system diagnostics 200 A Number of alarms for motion technology chiects 160 | |
| Number of alarms for motion technology objects 160 | |
| Test commissioning functions | |
| Joint commission (Team Engineering) Yes; Parallel online access possible for up to 8 engineering system | IS |
| Status block Yes; Up to 8 simultaneously (in total across all ES clients) | |
| Single step No | |
| Number of breakpoints 8 | |
| Profiling Yes | |
| Status/control | |
| Status/control variable Yes | |
| Variables Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters | 3 |
| Number of variables, max. | |
| — of which status variables, max. 200; per job | |
| — of which control variables, max. 200; per job | |
| Forcing | |
| • Forcing Yes | |
| • Forcing, variables Peripheral inputs/outputs | |
| • Number of variables, max. 200 | |
| Diagnostic buffer | |
| • present Yes | |
| • Number of entries, max. 3 200 | |
| — of which powerfail-proof 500 | |
| Traces | |
| Number of configurable Traces 4 | |
| Memory size per trace, max. 512 kbyte | |
| Interrupts/diagnostics/status information | |
| Diagnostics indication LED | |
| RUN/STOP LED Yes | |
| • ERROR LED Yes | |
| MAINT LED Yes | |
| | |
| STOP ACTIVE LED Yes | |
| STOP ACTIVE LED Connection display LINK TX/RX Yes | |
| Connection display LINK TX/RX Yes | |
| Connection display LINK TX/RX Yes Supported technology objects | of the PLC |
| Connection display LINK TX/RX Yes | of the PLC |
| Connection display LINK TX/RX Supported technology objects Motion Control Yes; Note: The number of technology objects affects the cycle time program; selection guide via the TIA Selection Tool Number of available Motion Control resources for 2 400 | of the PLC |
| Connection display LINK TX/RX Supported technology objects Motion Control Number of available Motion Control resources for technology objects Ves; Note: The number of technology objects affects the cycle time program; selection guide via the TIA Selection Tool 2 400 | e of the PLC |
| Connection display LINK TX/RX Supported technology objects Motion Control Yes; Note: The number of technology objects affects the cycle time program; selection guide via the TIA Selection Tool Number of available Motion Control resources for 2 400 | of the PLC |

| per positioning axis | 80 | |
|---|--|--|
| per synchronous axis | 160 | |
| — per external encoder | 80 | |
| — per output cam | 20 | |
| — per cam track | 160 | |
| — per probe | 40 | |
| Positioning axis | 40 | |
| • | 44 | |
| Number of positioning axes at motion control cycle of 4 ms (typical value) | 11 | |
| Number of positioning axes at motion control cycle of 8 ms (typical value) | 20 | |
| Controller | | |
| PID_Compact | Yes; Universal PID controller with integrated optimization | |
| PID_3Step | Yes; PID controller with integrated optimization for valves | |
| PID-Temp | Yes; PID controller with integrated optimization for temperature | |
| Counting and measuring | | |
| High-speed counter | Yes | |
| Standards, approvals, certificates | | |
| | Sigmons EgoToph | |
| Siemens Eco Profile (SEP) | Siemens EcoTech | |
| Ecological footprint | | |
| environmental product declaration | Yes | |
| Global warming potential | | |
| — global warming potential, (total) [CO2 eq] | 100 kg | |
| global warming potential, (during production) [CO2 | 25.8 kg | |
| eq] | | |
| — global warming potential, (during operation) [CO2 eq] | 75.2 kg | |
| — global warming potential, (after end of life cycle)[CO2 eq] | -0.83 kg | |
| product functions / security / header | | |
| PROFINET Security Class | 1 | |
| signed firmware update | Yes | |
| Secure Boot | Yes | |
| safely removing data | Yes | |
| Ambient conditions | 1.00 | |
| | | |
| Ambient temperature during operation | 20.00 H | |
| horizontal installation, min. | -30 °C; No condensation | |
| horizontal installation, max. | 60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off | |
| vertical installation, min. | -30 °C; No condensation | |
| vertical installation, max. | 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off | |
| Ambient temperature during storage/transportation | | |
| • min. | -40 °C | |
| • max. | 70 °C | |
| | | |
| Altitude during operation relating to sea level | F 000 m. Postrictions for installation allifuldes > 0.000 m. | |
| Installation altitude above sea level, max. | 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual | |
| configuration / header | | |
| configuration / programming / header | | |
| Programming language | | |
| | | |
| — LAD | Yes | |
| — LAD — FBD | Yes Yes | |
| | | |
| — FBD — STL | Yes Yes | |
| — FBD — STL — SCL | Yes Yes Yes | |
| — FBD — STL — SCL — CFC | Yes Yes Yes Yes | |
| — FBD — STL — SCL — CFC — GRAPH | Yes Yes Yes | |
| — FBD — STL — SCL — CFC — GRAPH Know-how protection | Yes Yes Yes Yes Yes Yes | |
| — FBD — STL — SCL — CFC — GRAPH Know-how protection ■ User program protection/password protection | Yes Yes Yes Yes Yes Yes | |
| — FBD — STL — SCL — CFC — GRAPH Know-how protection | Yes Yes Yes Yes Yes Yes | |
| — FBD — STL — SCL — CFC — GRAPH Know-how protection ◆ User program protection/password protection | Yes Yes Yes Yes Yes Yes | |
| — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection | Yes Yes Yes Yes Yes Yes Yes | |
| — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection | Yes Yes Yes Yes Yes Yes Yes | |
| — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection | Yes Yes Yes Yes Yes Yes Yes Yes Yes | |

Yes • Protection level: Write protection • Protection level: Read/write protection Yes • Protection level: Write protection for Failsafe No • Protection level: Complete protection Yes • User administration Yes; device-wide and centralized • Number of users 100 • Number of groups 100 • Number of roles 50 programming / cycle time monitoring / header • lower limit adjustable minimum cycle time • upper limit adjustable maximum cycle time Width 70 mm 147 mm Height 129 mm Depth

Weights

Weight, approx. 456 g

Classifications

| | Version | Classification |
|--------|---------|----------------|
| 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 | 9 | EC000236 |
| ETIM | 8 | EC000236 |
| ETIM | 7 | EC000236 |
| IDEA | 4 | 3565 |
| UNSPSC | 15 | 32-15-17-05 |

Approvals / Certificates

General Product Approval





Miscellaneous



Miscellaneous



General Product Approval

For use in hazardous locations

<u>KC</u>



<u>FM</u>



<u>FM</u>



For use in hazardous locations

Test Certificates

Marine / Shipping

Type Examination Certificate



Miscellaneous

Type Test Certificates/Test Report





Marine / Shipping





NK / Nippon Kaiji Kyokai



CCS (China Classification Society)



other Environment

PROFINET



last modified: 12/19/2024 🖸