



Figure similar

SIPLUS HMI TP1500 Comfort based on 6AV2124-0QC02-0AX1 with conformal coating, 0...+50 °C, Comfort Panel, touch operation, 15" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, WEC 2013, configurable as of WinCC Comfort V14 SP1 with HSP

| General information                                                   |                                    |
|-----------------------------------------------------------------------|------------------------------------|
| Product type designation                                              | TP1500 Comfort                     |
| based on                                                              | <a href="#">6AV2124-0QC02-0AX1</a> |
| Display                                                               |                                    |
| Design of display                                                     | TFT                                |
| Screen diagonal                                                       | 15.4 in                            |
| Display width                                                         | 331.2 mm                           |
| Display height                                                        | 207 mm                             |
| Number of colors                                                      | 16 777 216                         |
| Resolution (pixels)                                                   |                                    |
| • Horizontal image resolution                                         | 1 280 pixel                        |
| • Vertical image resolution                                           | 800 pixel                          |
| Backlighting                                                          |                                    |
| • MTBF backlighting (at 25 °C)                                        | 80 000 h                           |
| • Backlight dimmable                                                  | Yes; 0-100 %                       |
| Control elements                                                      |                                    |
| Keyboard                                                              |                                    |
| • Function keys                                                       |                                    |
| — Number of function keys                                             | 0                                  |
| — Number of function keys with LEDs                                   | 0                                  |
| • Keys with LED                                                       | No                                 |
| • System keys                                                         | No                                 |
| • Numeric keyboard                                                    | Yes; Onscreen keyboard             |
| • alphanumeric keyboard                                               | Yes; Onscreen keyboard             |
| Touch operation                                                       |                                    |
| • Design as touch screen                                              | Yes; Analog-resistive              |
| Expansions for operator control of the process                        |                                    |
| • Direct keys (touch buttons as S7 input I/O)                         | 40                                 |
| Installation type/mounting                                            |                                    |
| Mounting position                                                     | vertical                           |
| Mounting in portrait format possible                                  | Yes                                |
| Mounting in landscape format possible                                 | Yes                                |
| maximum permissible angle of inclination without external ventilation | 35°                                |
| Supply voltage                                                        |                                    |
| Type of supply voltage                                                | DC                                 |
| Rated value (DC)                                                      | 24 V                               |
| permissible range, lower limit (DC)                                   | 19.2 V                             |

|                                            |                                         |
|--------------------------------------------|-----------------------------------------|
| permissible range, upper limit (DC)        | 28.8 V                                  |
| <b>Input current</b>                       |                                         |
| Current consumption (rated value)          | 1.7 A                                   |
| Starting current inrush I <sup>2</sup> t   | 0.5 A <sup>2</sup> ·s                   |
| <b>Power</b>                               |                                         |
| Active power input, typ.                   | 41 W                                    |
| <b>Processor</b>                           |                                         |
| Processor type                             | X86                                     |
| <b>Storage</b>                             |                                         |
| Flash                                      | Yes                                     |
| RAM                                        | Yes                                     |
| Memory available for user data             | 24 Mbyte                                |
| <b>Type of output</b>                      |                                         |
| Info LED                                   | No                                      |
| Power LED                                  | No                                      |
| Error LED                                  | No                                      |
| Acoustics                                  |                                         |
| • Buzzer                                   | No                                      |
| • Speaker                                  | Yes                                     |
| <b>Time of day</b>                         |                                         |
| Clock                                      |                                         |
| • Hardware clock (real-time)               | Yes                                     |
| • Software clock                           | Yes                                     |
| • retentive                                | Yes; Back-up duration typically 6 weeks |
| • synchronizable                           | Yes                                     |
| <b>Interfaces</b>                          |                                         |
| Number of industrial Ethernet interfaces   | 2; 2 ports (switch) + independent port  |
| Number of RS 485 interfaces                | 1; RS 422 / 485 combined                |
| Number of RS 422 interfaces                | 0; together with RS 485                 |
| Number of RS 232 interfaces                | 0                                       |
| Number of USB interfaces                   | 2; USB 2.0                              |
| Number of 20 mA interfaces (TTY)           | 0                                       |
| Number of parallel interfaces              | 0                                       |
| Number of other interfaces                 | 0                                       |
| Number of SD card slots                    | 2                                       |
| With software interfaces                   | No                                      |
| <b>Industrial Ethernet</b>                 |                                         |
| • Industrial Ethernet status LED           | 3                                       |
| • Number of ports of the integrated switch | 2                                       |
| <b>Protocols</b>                           |                                         |
| PROFINET                                   | Yes                                     |
| Supports protocol for PROFINET IO          | Yes                                     |
| IRT                                        | Yes                                     |
| PROFIBUS                                   | Yes                                     |
| EtherNet/IP                                | Yes                                     |
| MPI                                        | Yes                                     |
| <b>Protocols (Ethernet)</b>                |                                         |
| • TCP/IP                                   | Yes                                     |
| • DHCP                                     | Yes                                     |
| • SNMP                                     | Yes                                     |
| • DCP                                      | Yes                                     |
| • LLDP                                     | Yes                                     |
| <b>WEB characteristics</b>                 |                                         |
| • HTTP                                     | Yes                                     |
| • HTTPS                                    | Yes                                     |
| • HTML                                     | Yes                                     |
| • XML                                      | Yes                                     |
| • CSS                                      | Yes                                     |

|                                                                     |                                                                                                                                                                                                                 |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • Active X                                                          | Yes                                                                                                                                                                                                             |
| • JavaScript                                                        | Yes                                                                                                                                                                                                             |
| • Java VM                                                           | No                                                                                                                                                                                                              |
| Redundancy mode                                                     |                                                                                                                                                                                                                 |
| Media redundancy                                                    |                                                                                                                                                                                                                 |
| — MRP                                                               | Yes                                                                                                                                                                                                             |
| Further protocols                                                   |                                                                                                                                                                                                                 |
| • CAN                                                               | No                                                                                                                                                                                                              |
| • MODBUS                                                            | Yes                                                                                                                                                                                                             |
| Interrupts/diagnostics/status information                           |                                                                                                                                                                                                                 |
| Diagnoses                                                           |                                                                                                                                                                                                                 |
| • Diagnostic information readable                                   | Yes; S7 controller                                                                                                                                                                                              |
| EMC                                                                 |                                                                                                                                                                                                                 |
| Emission of radio interference acc. to EN 55 011                    |                                                                                                                                                                                                                 |
| • Limit class A, for use in industrial areas                        | Yes                                                                                                                                                                                                             |
| • Limit class B, for use in residential areas                       | No                                                                                                                                                                                                              |
| Degree and class of protection                                      |                                                                                                                                                                                                                 |
| IP (at the front)                                                   | IP65                                                                                                                                                                                                            |
| IP (rear)                                                           | IP20                                                                                                                                                                                                            |
| NEMA (front)                                                        |                                                                                                                                                                                                                 |
| • Enclosure Type 4 at the front                                     | Yes                                                                                                                                                                                                             |
| • Enclosure Type 4x at the front                                    | Yes                                                                                                                                                                                                             |
| Ambient conditions                                                  |                                                                                                                                                                                                                 |
| Suited for indoor use                                               | Yes                                                                                                                                                                                                             |
| Suited for outdoor use                                              | No                                                                                                                                                                                                              |
| Ambient temperature during operation                                |                                                                                                                                                                                                                 |
| Operation (vertical installation)                                   |                                                                                                                                                                                                                 |
| — For vertical installation, min.                                   | 0 °C                                                                                                                                                                                                            |
| — For vertical installation, max.                                   | 50 °C; (55 °C, see entry ID: 64847814)                                                                                                                                                                          |
| Operation (max. tilt angle)                                         |                                                                                                                                                                                                                 |
| — At maximum tilt angle, min.                                       | 0 °C                                                                                                                                                                                                            |
| — At maximum tilt angle, max.                                       | 40 °C                                                                                                                                                                                                           |
| Operation (vertical installation, portrait format)                  |                                                                                                                                                                                                                 |
| — For vertical installation, min.                                   | 0 °C                                                                                                                                                                                                            |
| — For vertical installation, max.                                   | 40 °C                                                                                                                                                                                                           |
| Operation (max. tilt angle, portrait format)                        |                                                                                                                                                                                                                 |
| — At maximum tilt angle, min.                                       | 0 °C                                                                                                                                                                                                            |
| — At maximum tilt angle, max.                                       | 40 °C                                                                                                                                                                                                           |
| Ambient temperature during storage/transportation                   |                                                                                                                                                                                                                 |
| • min.                                                              | -20 °C                                                                                                                                                                                                          |
| • max.                                                              | 60 °C                                                                                                                                                                                                           |
| Altitude during operation relating to sea level                     |                                                                                                                                                                                                                 |
| • Installation altitude above sea level, max.                       | 5 000 m                                                                                                                                                                                                         |
| • 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) |
| Relative humidity                                                   |                                                                                                                                                                                                                 |
| • With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation/frost (no commissioning under condensation conditions)                                                                                                                             |
| Resistance                                                          |                                                                                                                                                                                                                 |
| Coolants and lubricants                                             |                                                                                                                                                                                                                 |
| — Resistant to commercially available coolants and lubricants       | Yes; Incl. diesel and oil droplets in the air                                                                                                                                                                   |
| 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 60721-3-6                                                           | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on 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; *                                                                                                                                                  |
| <b>Usage in industrial process technology</b>                                                                           |                                                                                                                                                                                     |
| — 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) |
| <b>Remark</b>                                                                                                           |                                                                                                                                                                                     |
| — 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!                                                                                        |
| <b>Conformal coating</b>                                                                                                |                                                                                                                                                                                     |
| • Coatings for printed circuit board assemblies acc. to EN 61086                                                        | Yes; Class 2 for high reliability                                                                                                                                                   |
| • Protection against fouling acc. to EN 60664-3                                                                         | Yes; Type 1 protection                                                                                                                                                              |
| • Military testing according to MIL-I-46058C, Amendment 7                                                               | Yes; Discoloration of coating possible during service life                                                                                                                          |
| • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | Yes; Conformal coating, Class A                                                                                                                                                     |
| <b>Operating systems</b>                                                                                                |                                                                                                                                                                                     |
| proprietary                                                                                                             | No                                                                                                                                                                                  |
| <b>pre-installed operating system</b>                                                                                   |                                                                                                                                                                                     |
| • Windows CE                                                                                                            | Yes; Windows Embedded Compact 2013                                                                                                                                                  |
| <b>Configuration</b>                                                                                                    |                                                                                                                                                                                     |
| Message indicator                                                                                                       | Yes                                                                                                                                                                                 |
| Alarm system (incl. buffer and acknowledgment)                                                                          | Yes                                                                                                                                                                                 |
| Process value display (output)                                                                                          | Yes                                                                                                                                                                                 |
| Process value default (input) possible                                                                                  | Yes                                                                                                                                                                                 |
| Recipe management                                                                                                       | Yes                                                                                                                                                                                 |
| <b>Configuration software</b>                                                                                           |                                                                                                                                                                                     |
| • STEP 7 Basic (TIA Portal)                                                                                             | No                                                                                                                                                                                  |
| • STEP 7 Professional (TIA Portal)                                                                                      | No                                                                                                                                                                                  |
| • WinCC flexible Compact                                                                                                | No                                                                                                                                                                                  |
| • WinCC flexible Standard                                                                                               | No                                                                                                                                                                                  |
| • WinCC flexible Advanced                                                                                               | No                                                                                                                                                                                  |
| • WinCC Basic (TIA Portal)                                                                                              | No                                                                                                                                                                                  |
| • WinCC Comfort (TIA Portal)                                                                                            | Yes; V14 SP1 HSP and higher                                                                                                                                                         |
| • WinCC Advanced (TIA Portal)                                                                                           | Yes; V14 SP1 HSP and higher                                                                                                                                                         |
| • WinCC Professional (TIA Portal)                                                                                       | Yes; V14 SP1 HSP and higher                                                                                                                                                         |
| <b>Languages</b>                                                                                                        |                                                                                                                                                                                     |
| <b>Online languages</b>                                                                                                 |                                                                                                                                                                                     |
| • Number of online/runtime languages                                                                                    | 32                                                                                                                                                                                  |
| <b>Project languages</b>                                                                                                |                                                                                                                                                                                     |
| • Languages per project                                                                                                 | 32                                                                                                                                                                                  |
| <b>Functionality under WinCC (TIA Portal)</b>                                                                           |                                                                                                                                                                                     |
| Libraries                                                                                                               | Yes                                                                                                                                                                                 |
| <b>Applications/options</b>                                                                                             |                                                                                                                                                                                     |
| • Web browser                                                                                                           | Yes                                                                                                                                                                                 |
| • Pocket Word                                                                                                           | Yes                                                                                                                                                                                 |
| • Pocket Excel                                                                                                          | Yes                                                                                                                                                                                 |
| • PDF Viewer                                                                                                            | Yes                                                                                                                                                                                 |
| • Media Player                                                                                                          | Yes                                                                                                                                                                                 |
| • SIMATIC WinCC Sm@rtServer                                                                                             | Yes                                                                                                                                                                                 |
| • SIMATIC WinCC Audit                                                                                                   | Yes                                                                                                                                                                                 |
| Number of Visual Basic Scripts                                                                                          | Yes                                                                                                                                                                                 |
| <b>Task planner</b>                                                                                                     |                                                                                                                                                                                     |
| • time-controlled                                                                                                       | Yes                                                                                                                                                                                 |

|                                                              |         |
|--------------------------------------------------------------|---------|
| • task-controlled                                            | Yes     |
| Help system                                                  |         |
| • Number of characters per info text                         | 320     |
| Message system                                               |         |
| • Number of alarm classes                                    | 32      |
| • Bit messages                                               |         |
| — Number of bit messages                                     | 6 000   |
| • Analog messages                                            |         |
| — Number of analog messages                                  | 200     |
| • S7 alarm number procedure                                  | Yes     |
| • System messages HMI                                        | Yes     |
| • System event, more (SIMATIC S7, SINUMERIK, SIMOTION, ... ) | Yes     |
| • Number of characters per message                           | 80      |
| • Number of process values per message                       | 8       |
| • Acknowledgment groups                                      | Yes     |
| • Message indicator                                          | Yes     |
| • Message buffer                                             |         |
| — Number of entries                                          | 1 024   |
| — Circulating buffer                                         | Yes     |
| — retentive                                                  | Yes     |
| — maintenance-free                                           | Yes     |
| Recipe management                                            |         |
| • Number of recipes                                          | 500     |
| • Data records per recipe                                    | 1 000   |
| • Entries per data record                                    | 2 000   |
| • Size of internal recipe memory                             | 4 Mbyte |
| • Recipe memory expandable                                   | Yes     |
| Variables                                                    |         |
| • Number of variables per device                             | 4 096   |
| • Number of variables per screen                             | 400     |
| • Limit values                                               | Yes     |
| • Multiplexing                                               | Yes     |
| • Structures                                                 | Yes     |
| • Arrays                                                     | Yes     |
| Images                                                       |         |
| • Number of configurable images                              | 750     |
| • Permanent window/default                                   | Yes     |
| • Global image                                               | Yes     |
| • Pop-up images                                              | Yes     |
| • Slide-in images                                            | Yes     |
| • Image selection by PLC                                     | Yes     |
| • Image number in the PLC                                    | Yes     |
| Image objects                                                |         |
| • Number of objects per image                                | 600     |
| • Text fields                                                | Yes     |
| • I/O fields                                                 | Yes     |
| • Graphic I/O fields (graphics list)                         | Yes     |
| • Symbolic I/O fields (text list)                            | Yes     |
| • Date/time fields                                           | Yes     |
| • Switches                                                   | Yes     |
| • Buttons                                                    | Yes     |
| • Graphic display                                            | Yes     |
| • Icons                                                      | Yes     |
| • Geometric objects                                          | Yes     |
| Complex image objects                                        |         |
| • Number of complex objects per screen                       | 40      |
| • Alarm view                                                 | Yes     |
| • Trend view                                                 | Yes     |

|                                        |                |
|----------------------------------------|----------------|
| • User view                            | Yes            |
| • Status/control                       | Yes            |
| • Sm@rtClient view                     | Yes            |
| • Recipe view                          | Yes            |
| • f(x) trend view                      | Yes            |
| • System diagnostics view              | Yes            |
| • Media Player                         | Yes            |
| • HTML browser                         | Yes            |
| • PDF display                          | Yes            |
| • IP camera display                    | Yes            |
| • Bar graphs                           | Yes            |
| • Sliders                              | Yes            |
| • Pointer instruments                  | Yes            |
| • Analog/digital clock                 | Yes            |
| <b>Lists</b>                           |                |
| • Number of text lists per project     | 500            |
| • Number of entries per text list      | 500            |
| • Number of graphics lists per project | 500            |
| • Number of entries per graphics list  | 500            |
| <b>Archiving</b>                       |                |
| • Number of archives per device        | 50             |
| • Number of entries per archive        | 50 000         |
| • Message archive                      | Yes            |
| • Process value archive                | Yes            |
| • Archiving methods                    |                |
| — Sequential archive                   | Yes            |
| — Short-term archive                   | Yes            |
| • Memory location                      |                |
| — Memory card                          | Yes            |
| — USB memory                           | Yes            |
| — Ethernet                             | Yes            |
| • Data storage format                  |                |
| — CSV                                  | Yes            |
| — TXT                                  | Yes            |
| — RDB                                  | Yes            |
| <b>Security</b>                        |                |
| • Number of user groups                | 50             |
| • Number of user rights                | 32             |
| • Number of users                      | 50             |
| • Password export/import               | Yes            |
| • SIMATIC Logon                        | Yes            |
| <b>Logging through printer</b>         |                |
| • Alarms                               | Yes            |
| • Report (shift log)                   | Yes            |
| • Hardcopy                             | Yes            |
| • Electronic print to file             | Yes; PDF, HTML |
| <b>Character sets</b>                  |                |
| • Keyboard fonts                       |                |
| — US English                           | Yes            |
| <b>Transfer (upload/download)</b>      |                |
| • MPI/PROFIBUS DP                      | Yes            |
| • USB                                  | Yes            |
| • Ethernet                             | Yes            |
| • using external storage medium        | Yes            |
| <b>Process coupling</b>                |                |
| • S7-1200                              | Yes            |
| • S7-1500                              | Yes            |
| • S7-200                               | Yes            |
| • S7-300/400                           | Yes            |

|                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
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| <ul style="list-style-type: none"><li>• LOGO!</li><li>• WinAC</li><li>• SINUMERIK</li><li>• SIMOTION</li><li>• Allen Bradley (EtherNet/IP)</li><li>• Allen Bradley (DF1)</li><li>• Mitsubishi (MC TCP/IP)</li><li>• Mitsubishi (FX)</li><li>• OMRON (FINS TCP)</li><li>• OMRON (Host Link)</li><li>• Modicon (Modbus TCP/IP)</li><li>• Modicon (Modbus RTU)</li><li>• OPC UA Client</li><li>• OPC UA Server</li></ul> | Yes<br>Yes<br>Yes; With SINUMERIK option package as from WinCC V15 or higher<br>Yes<br>Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| Service tools/configuration aids                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| <ul style="list-style-type: none"><li>• Backup/Restore manually</li><li>• Backup/Restore automatically</li><li>• Simulation</li><li>• Device switchover</li></ul>                                                                                                                                                                                                                                                     | Yes<br>Yes<br>Yes<br>Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| Peripherals/Options                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| Printer                                                                                                                                                                                                                                                                                                                                                                                                               | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| SIMATIC HMI MM memory card: Multi Media Card                                                                                                                                                                                                                                                                                                                                                                          | Yes; Up to 128 MB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| SIMATIC HMI SD memory card: Secure Digital memory card                                                                                                                                                                                                                                                                                                                                                                | Yes; Up to 2 GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| SIMATIC HMI CF memory card Compact Flash Card                                                                                                                                                                                                                                                                                                                                                                         | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| USB memory                                                                                                                                                                                                                                                                                                                                                                                                            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| SIMATIC IPC USB Flashdrive (USB stick)                                                                                                                                                                                                                                                                                                                                                                                | Yes; Up to 16 GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| SIMATIC HMI USB stick                                                                                                                                                                                                                                                                                                                                                                                                 | Yes; Up to 8 GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| Network camera                                                                                                                                                                                                                                                                                                                                                                                                        | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| Mechanics/material                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| Enclosure material (front) <ul style="list-style-type: none"><li>• Plastic</li><li>• Aluminum</li><li>• Stainless steel</li></ul>                                                                                                                                                                                                                                                                                     | No<br>Yes<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| Dimensions                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| Width of the housing front                                                                                                                                                                                                                                                                                                                                                                                            | 415 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| Height of housing front                                                                                                                                                                                                                                                                                                                                                                                               | 310 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| Mounting cutout, width                                                                                                                                                                                                                                                                                                                                                                                                | 396 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| Mounting cutout, height                                                                                                                                                                                                                                                                                                                                                                                               | 291 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| mounting depth                                                                                                                                                                                                                                                                                                                                                                                                        | 75 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| Weights                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| Weight (without packaging)                                                                                                                                                                                                                                                                                                                                                                                            | 4.4 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| Classifications                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                       | <table><tr><td></td><td>Version</td><td>Classification</td></tr><tr><td>eClass</td><td>16</td><td>27-33-02-01</td></tr><tr><td>eClass</td><td>14</td><td>27-33-02-01</td></tr><tr><td>eClass</td><td>12</td><td>27-33-02-01</td></tr><tr><td>eClass</td><td>9.1</td><td>27-33-02-01</td></tr><tr><td>eClass</td><td>9</td><td>27-33-02-01</td></tr><tr><td>eClass</td><td>8</td><td>27-24-23-02</td></tr><tr><td>eClass</td><td>7.1</td><td>27-24-23-02</td></tr><tr><td>eClass</td><td>6</td><td>27-24-23-02</td></tr><tr><td>ETIM</td><td>10</td><td>EC001412</td></tr><tr><td>ETIM</td><td>9</td><td>EC001412</td></tr><tr><td>ETIM</td><td>8</td><td>EC001412</td></tr><tr><td>ETIM</td><td>7</td><td>EC001412</td></tr><tr><td>IDEA</td><td>4</td><td>6607</td></tr></table> |                | Version | Classification | eClass | 16 | 27-33-02-01 | eClass | 14 | 27-33-02-01 | eClass | 12 | 27-33-02-01 | eClass | 9.1 | 27-33-02-01 | eClass | 9 | 27-33-02-01 | eClass | 8 | 27-24-23-02 | eClass | 7.1 | 27-24-23-02 | eClass | 6 | 27-24-23-02 | ETIM | 10 | EC001412 | ETIM | 9 | EC001412 | ETIM | 8 | EC001412 | ETIM | 7 | EC001412 | IDEA | 4 | 6607 |
|                                                                                                                                                                                                                                                                                                                                                                                                                       | Version                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Classification |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| eClass                                                                                                                                                                                                                                                                                                                                                                                                                | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 27-33-02-01    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| eClass                                                                                                                                                                                                                                                                                                                                                                                                                | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 27-33-02-01    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| eClass                                                                                                                                                                                                                                                                                                                                                                                                                | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 27-33-02-01    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| eClass                                                                                                                                                                                                                                                                                                                                                                                                                | 9.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 27-33-02-01    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| eClass                                                                                                                                                                                                                                                                                                                                                                                                                | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 27-33-02-01    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| eClass                                                                                                                                                                                                                                                                                                                                                                                                                | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 27-24-23-02    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| eClass                                                                                                                                                                                                                                                                                                                                                                                                                | 7.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 27-24-23-02    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| eClass                                                                                                                                                                                                                                                                                                                                                                                                                | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 27-24-23-02    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| ETIM                                                                                                                                                                                                                                                                                                                                                                                                                  | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EC001412       |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| ETIM                                                                                                                                                                                                                                                                                                                                                                                                                  | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EC001412       |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| ETIM                                                                                                                                                                                                                                                                                                                                                                                                                  | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EC001412       |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| ETIM                                                                                                                                                                                                                                                                                                                                                                                                                  | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EC001412       |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |
| IDEA                                                                                                                                                                                                                                                                                                                                                                                                                  | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6607           |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |

Approvals / Certificates

General Product Approval



[China RoHS](#)

[Manufacturer Declaration](#)



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

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last modified: 5/19/2025