

SIMATIC CFU PA with aluminum enclosure, bundle consisting of: 1x SIMATIC CFU PA (6ES7655-5PX11-1XX0), 1x aluminum enclosure with cable glands, shield busbar shield terminals, preassembled and checked



Figure similar

| General information   |  |
|---|--|
| Product type designation  | PA Bundle  |
| Firmware version  | V2.0   |
| <ul style="list-style-type: none"> <li>FW update possible</li> </ul>  | Yes  |
| Vendor identification (VendorID)  | 002AH  |
| Device identifier (DeviceID)  | 060DH  |
| Number of channels  | 16   |
| Product function  |  |
| <ul style="list-style-type: none"> <li>I&amp;M data</li> </ul>  | Yes; I&M0 to I&M4                                  |
| <ul style="list-style-type: none"> <li>Isochronous mode</li> </ul>  | No   |
| <ul style="list-style-type: none"> <li>The user can configure digital channels as input/output as required</li> </ul> | Yes  |
| <ul style="list-style-type: none"> <li>Digital channels can be parameterized</li> </ul>                               | Yes  |
| Engineering with  |  |
| <ul style="list-style-type: none"> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>              | V19 Update 2                                       |
| <ul style="list-style-type: none"> <li>STEP 7 configurable/integrated from version</li> </ul>                         | STEP 7 V5.7.1.4                                    |
| <ul style="list-style-type: none"> <li>PCS 7 configurable/integrated from version</li> </ul>                          | V9.1 SP2 UC7                                       |
| <ul style="list-style-type: none"> <li>PROFIBUS from GSD version/GSD revision</li> </ul>                              | - / -  |
| <ul style="list-style-type: none"> <li>PROFINET from GSD version/GSD revision</li> </ul>                              | GSDML V2.43 2024.03.08                             |
| Operating mode  |  |
| <ul style="list-style-type: none"> <li>Counter</li> </ul>   | Yes  |
| Installation type/mounting  |  |
| Mounting position   | Horizontal, vertical                               |
| Recommended mounting position   | horizontal set up                                  |
| Supply voltage  |  |
| Type of supply voltage  | 24 V DC  |
| Rated value (DC)  | 24 V   |
| permissible range, lower limit (DC)   | 19.2 V   |
| permissible range, upper limit (DC)   | 28.8 V   |
| Reverse polarity protection   | Yes  |
| Short-circuit protection  | Yes  |
| Redundant power supply  | Yes  |
| Mains buffering   |  |
| <ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>                            | 5 ms; Bridging for field devices and communication |
| Input current   |  |
| Current consumption (rated value)   | 2.5 A  |
| Current consumption, max.   | 2.55 A   |
| Inrush current, max.  | 8 A  |

|   |   |
|---|---|
| I <sup>2</sup> t  | 0.3 A <sup>2</sup> ·s                                       |
| <b>Encoder supply</b>   |   |
| Number of outputs   | 8   |
| Output voltage, min.  | 18.2 V  |
| Short-circuit protection  | Yes; Electronic   |
| <b>Output current</b>   |   |
| • up to 60 °C, max.   | 2 A   |
| • up to 70 °C, max.   | 1 A   |
| <b>Power loss</b>   |   |
| Power loss, typ.  | 8.2 W; Depending on the type of BusAdapter used (typ. RJ45) |
| <b>Address area</b>   |   |
| Address space per station                                       |   |
| • Address space per station, max.                               | 1 440 byte; Dependent on configuration                      |
| <b>Digital inputs</b>   |   |
| Number of digital inputs  | 8   |
| Sourcing/sinking input  | Yes; P-reading  |
| Input characteristic curve in accordance with IEC 61131, type 1 | Yes   |
| Input characteristic curve in accordance with IEC 61131, type 2 | No  |
| Input characteristic curve in accordance with IEC 61131, type 3 | Yes   |
| Pulse extension   | No  |
| <b>Number of simultaneously controllable inputs</b>             |   |
| horizontal installation   |   |
| — up to 60 °C, max.   | 8; Total current must be observed, see DQ                   |
| — up to 70 °C, max.   | 8; Total current must be observed, see DQ                   |
| vertical installation   |   |
| — up to 60 °C, max.   | 8; Total current must be observed, see DQ                   |
| <b>Digital input functions, parameterizable</b>                 |   |
| • Counter   | Yes   |
| — Number, max.  | 1   |
| — Counting frequency, max.                                      | 1 kHz   |
| — Counting width  | 32 bit  |
| — Counting direction up/down                                    | Yes; Up   |
| <b>Input voltage</b>  |   |
| • Rated value (DC)  | 24 V  |
| • for signal "0"  | -30 to +5 V   |
| • for signal "1"  | +11 to +30V   |
| <b>Input current</b>  |   |
| • for signal "1", typ.  | 2.5 mA; Typical   |
| <b>Input delay (for rated value of input voltage)</b>           |   |
| for standard inputs   |   |
| — parameterizable   | No  |
| — at "0" to "1", max.   | 3.2 ms; for counter function 0,1 ms                         |
| — at "1" to "0", max.   | 3.2 ms; for counter function 0,1 ms                         |
| <b>Cable length</b>   |   |
| • shielded, max.  | 1 000 m   |
| • unshielded, max.  | 600 m   |
| <b>Digital outputs</b>  |   |
| Type of digital output  | Transistor  |
| Number of digital outputs                                       | 8   |
| Current-sinking   | No  |
| Current-sourcing  | Yes   |
| Short-circuit protection  | Yes   |
| • Response threshold, typ.                                      | 0.7 to 1.3 A  |
| Limitation of inductive shutdown voltage to                     | Typ. L+ (-50 V)   |
| Controlling a digital input                                     | Yes   |
| <b>Switching capacity of the outputs</b>                        |   |
| • on lamp load, max.  | 5 W   |
| <b>Load resistance range</b>                                    |   |
| • lower limit   | 48 Ω  |

|   |  |
|---|--|
| • upper limit   | 12 kΩ  |
| <b>Output voltage</b>   |  |
| • Type of output voltage  | DC   |
| • for signal "1", min.  | Ue minus 1 V   |
| <b>Output current</b>   |  |
| • for signal "1" rated value                                    | 0.5 A  |
| • for signal "0" residual current, max.                         | 0.1 mA   |
| <b>Output delay with resistive load</b>                         |  |
| • "0" to "1", max.  | 50 μs  |
| • "1" to "0", max.  | 100 μs   |
| <b>Parallel switching of two outputs</b>                        |  |
| • for uprating  | No   |
| • for redundant control of a load                               | No   |
| <b>Switching frequency</b>                                      |  |
| • with resistive load, max.                                     | 100 Hz   |
| • with inductive load, max.                                     | 2 Hz   |
| • on lamp load, max.  | 10 Hz  |
| <b>Total current of the outputs</b>                             |  |
| • Current per channel, max.                                     | 0.5 A  |
| <b>Cable length</b>   |  |
| • shielded, max.  | 1 000 m  |
| • unshielded, max.  | 600 m  |
| <b>Encoder</b>  |  |
| <b>Connectable encoders</b>                                     |  |
| • 2-wire sensor   | Yes  |
| — permissible quiescent current (2-wire sensor), max.           | 1.5 mA   |
| <b>Interfaces</b>   |  |
| Number of PROFINET interfaces                                   | 1  |
| Number of PROFIBUS interfaces                                   | 0  |
| <b>PROFIBUS PA</b>  |  |
| • Transmission rate, max.                                       | 31.25 kbit/s   |
| • Number of connectable PA field devices                        | 8; electrically isolated from other interfaces, isolation tested at 2 500 V DC |
| • Current output to PA field devices, max.                      | 320 mA   |
| • permissible current per spur line                             | 40 mA  |
| • Automatic addressing  | Yes  |
| • System-supported integration of field devices via PA profiles | Yes  |
| • Extended fieldbus diagnostics                                 | Yes  |
| <b>1. Interface</b>   |  |
| Interface type  | PROFINET   |
| Isolated  | Yes  |
| <b>Interface types</b>  |  |
| • Number of ports   | 2  |
| • integrated switch   | Yes  |
| • BusAdapter (PROFINET)   | Yes  |
| <b>Protocols</b>  |  |
| • PROFINET IO Device  | Yes  |
| • PROFIBUS DP device  | No   |
| <b>Interface types</b>  |  |
| <b>RJ 45 (Ethernet)</b>   |  |
| • 100 Mbps  | Yes  |
| • Autonegotiation   | Yes  |
| • Autocrossing  | Yes  |
| <b>Protocols</b>  |  |
| Supports protocol for PROFINET IO                               | Yes  |
| <b>Redundancy mode</b>  |  |
| • PROFINET system redundancy (S2)                               | Yes; Type S2   |
| <b>Media redundancy</b>   |  |
| — MRP   | Yes  |

|  |  |
|--|--|
| <b>Open IE communication</b>                                   |  |
| • LLDP   | Yes  |
| <b>Interrupts/diagnostics/status information</b>               |  |
| Status indicator   | Yes  |
| Alarms   | Yes  |
| Diagnostics function   | Yes  |
| <b>Diagnoses</b>   |  |
| • Monitoring of encoder power supply                           | Yes  |
| • Wire-break   | Yes  |
| • Short-circuit  | Yes  |
| <b>Diagnostics indication LED</b>                              |  |
| • RUN LED  | Yes; green LED   |
| • ERROR LED  | Yes; red LED   |
| • MAINT LED  | Yes; Yellow LED  |
| • Monitoring of the supply voltage (PWR-LED)                   | Yes  |
| • Status indicator digital input (green)                       | Yes  |
| • Status indicator digital output (green)                      | Yes  |
| • Spur line status/fault                                       | Yes  |
| <b>Potential separation</b>                                    |  |
| between the channels and PROFINET                              | Yes  |
| <b>Potential separation digital inputs</b>                     |  |
| • between the channels   | No   |
| • between the channels and the power supply of the electronics | No   |
| <b>Potential separation digital outputs</b>                    |  |
| • between the channels   | No   |
| • between the channels and the power supply of the electronics | No   |
| <b>Isolation</b>   |  |
| Isolation tested with  | 1 500 V AC between PROFINET and electronics                  |
| <b>Degree and class of protection</b>                          |  |
| IP degree of protection  | IP66   |
| <b>Ambient conditions</b>                                      |  |
| <b>Ambient temperature during operation</b>                    |  |
| • horizontal installation, min.                                | -40 °C   |
| • horizontal installation, max.                                | 60 °C; max. 1 A load current; 50 °C to max. 2 A load current |
| • vertical installation, min.                                  | -40 °C   |
| • vertical installation, max.                                  | 50 °C  |
| <b>Ambient temperature during storage/transportation</b>       |  |
| • min.   | -40 °C   |
| • max.   | 70 °C  |
| <b>Relative humidity</b>                                       |  |
| • Operation, max.  | 95 %   |
| <b>Connection method</b>                                       |  |
| Design of electrical connection                                | Connection plug  |
| <b>Spur line</b>   |  |
| • Number of spur lines   | 8  |
| • Type of cable  | Type A   |
| • Cable diameter, min.   | 6 mm   |
| • Cable diameter, max.   | 12 mm  |
| • Conductor cross-section, min.                                | 0.2 mm <sup>2</sup>  |
| • Conductor cross-section, max.                                | 2.5 mm <sup>2</sup>  |
| • Cable length, max.   | 120 m  |
| • total current output to field devices, max.                  | 320 mA   |
| • Number of connectable field devices                          | 8  |
| • Current limitation per field device, max.                    | 40 mA  |
| • No-load voltage, max.  | 15.3 V   |
| • short-circuit proof  | Yes  |
| • Short-circuit current (test current); max.                   | 8 mA   |

- intrinsically safe according to FISCO model
- Debounce logic

Yes  
Yes

#### Dimensions

|        |        |
|--------|--------|
| Width  | 414 mm |
| Height | 266 mm |
| Depth  | 111 mm |

#### Weights

|                 |        |
|-----------------|--------|
| Weight, approx. | 5.5 kg |
|-----------------|--------|

#### Classifications

|        | Version | Classification |
|--------|---------|----------------|
| eClass | 14      | 27-24-26-90    |
| eClass | 12      | 27-24-26-90    |
| eClass | 9.1     | 27-24-26-90    |
| eClass | 9       | 27-24-26-90    |
| eClass | 8       | 27-24-92-90    |
| eClass | 7.1     | 27-24-92-90    |
| eClass | 6       | 27-24-92-90    |
| ETIM   | 10      | EC002584       |
| ETIM   | 9       | EC002584       |
| ETIM   | 8       | EC002584       |
| ETIM   | 7       | EC002584       |

#### Approvals / Certificates

##### General Product Approval



[Miscellaneous](#)



##### For use in hazardous locations

##### Environment

[Type Examination Certificate](#)



[CCC-Ex](#)



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