



SIMATIC NET,
 CP 243-2 COMMUNICATIONS PROCESSOR FOR
 CONNECTION OF A SIMATIC S7-22X TO AN ASI-
 INTERFACE WITH MASTER PROFILE M0E/M1E ACC.
 EXTENDED ASI-SPECIFICATION V2.11

General technical data:

| | | |
|--|----|---|
| Product designation | | AS-Interface Master |
| Product-type designation | | CP 243-2 |
| Protection class IP | | IP20 |
| Design of the electrical connection / of the AS-Interface | | Screw-type connection |
| Type of voltage supply | | via backplane bus |
| Operating condition / separate power supply 24 V | | No |
| Consumed current | | |
| <ul style="list-style-type: none"> • from profile conductors of the AS-interface <li style="padding-left: 20px;">• at 30 V / maximum | mA | 100 |
| <ul style="list-style-type: none"> • from backplane bus / maximum | mA | 220 |
| Resistive loss | W | 3.7 |
| Insulation voltage / rated value | V | 500 |
| Product function / adapted for AS-i Power24V | | No |
| Product feature / redundancy capability | | No |
| Product function / web-based management | | No |
| Product function / diagnosis via E-mail | | No |
| Product function / galvanic isolation | | Yes |
| <ul style="list-style-type: none"> • as status display by LED | | PWR, APF, CER, AUP, CM, SF |
| Type of projection / of the AS-interface | | Set pushbutton on device, command interface |

| Communication: | | |
|---|--|--|
| Version / of the AS-interface specification | | V 2.11 |
| AS-interface masterprofile / is supported | | M3 (in acc. with AS-interface specification V 2.1) |
| Type of data transmission | | S7-200 backplane bus |
| Number of modules / per CPU / maximum | | 2 |
| Number of interfaces | | |
| • as AS-interface | | 1 |
| • according to RS 485 | | 0 |
| • according to Industrial Ethernet | | 0 |
| • according to PROFINET | | 0 |
| • according to wireless | | 0 |
| • according to USB | | 0 |
| • others | | 2 |
| Product component / optical interface | | No |
| Protocol / is supported | | |
| • ASIsafe(Safety at work) protocol | | No |
| • PROFI-safe protocol | | No |
| • PROFIBUS protocol | | No |
| • PROFINET IO protocol | | No |
| • PROFINET CBA protocol | | No |
| • TCP/IP | | No |
| • SNMP | | No |
| Standard for wireless communication / IEEE 802.11 | | No |

| Ein- und Ausgänge: | | |
|--|----|---|
| Number of inputs / for AS Interface / maximum | | 248 |
| Number of outputs / for AS Interface / maximum | | 186 |
| Number of AS-i slaves / per AS-Interface / maximum | | 62 |
| Bus cycle time / of the AS-interface | | |
| • at 31 slaves | ms | 5 |
| • at 62 slaves | ms | 10 |
| Access to digital I/O data | | via process diagram/peripheral addresses and data record transfer |
| Access to analog I/O data | | via data record transfer |

| Mechanical design: | | |
|--------------------|----|--|
| Width | mm | 71 |
| Height | mm | 80 |
| Depth | mm | 62 |
| Type of mounting | | snap-on fastening on 35 mm standard mounting rail or screw fastening using an additional push-in lug |

| | |
|----------------------|-----------------------|
| Module format | S7-200 modular system |
|----------------------|-----------------------|





Ambient conditions:

| | | |
|---|----|-------------|
| Ambient temperature | | |
| • if installed on horizontal mounting rail / during operation | °C | 0 ... 55 |
| • if installed on vertical mounting rail / during operation | °C | 0 ... 45 |
| • during transport | °C | -40 ... +70 |
| • during storage | °C | -40 ... +70 |
| Relative humidity / at 25 °C / during operating / maximum | % | 95 |
| Installation altitude / at a height over sea level / maximum | m | 2,000 |

Safety:

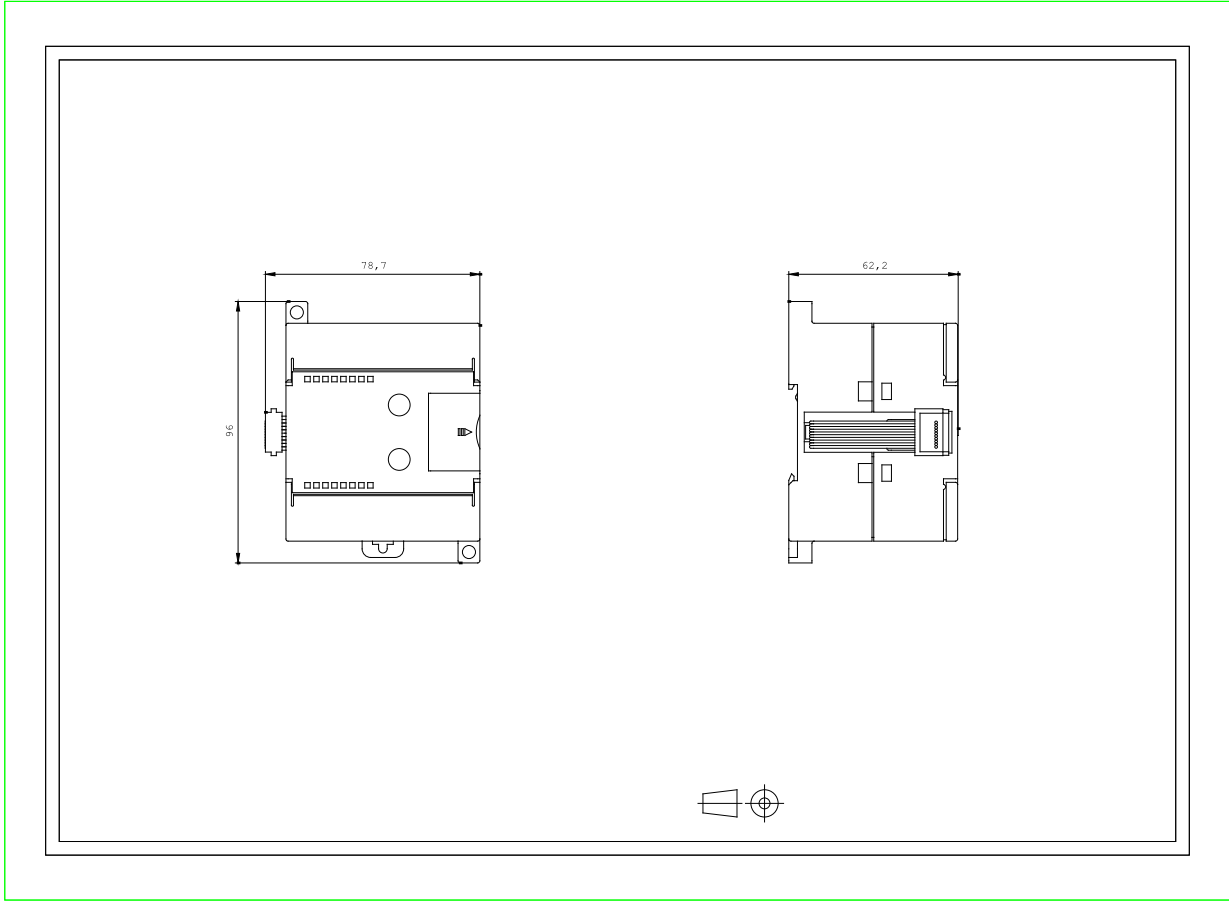
| | | |
|---|--|------|
| Acceptability for application / safety-related function | | No |
| Explosion protection marking / for intrinsic safety of related operating resources | | |
| • EEX ia | | No |
| • EEX ib | | No |
| Explosion protection category for gas | | none |
| Explosion protection category for dust | | none |

Certificates/approvals:

| General Product Approval | EMC | Shipping Approval |
|---|---|---|
|  |  |  |
| | |  |
| | | |

Further information:

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|---|
| Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs |
| Industry Mall (Online ordering system) http://www.siemens.com/industrial-controls/mall |
| Cax online generator: http://www.siemens.com/cax |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WWW/view/en/6GK7243-2AX01-0XA0/all |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=6GK7243-2AX01-0XA0 |



last change:

Jan 20, 2014