

SIMATIC S7-1200, CM 1243-2, COMMUNICATION  
MODULE AS-INTERFACE MASTER ACCOR. AS-  
INTERFACE SPEC. V3.0



Figure similar

| General technical data:  |    |                       |
|--|----|-----------------------|
| Product designation  |    | AS-Interface Master   |
| Product type designation   |    | CM 1243-2             |
| Protection class IP  |    | IP20                  |
| Type of 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   |    |                       |
| • from profile conductors of the AS-interface<br>— at 30 V maximum | mA | 100                   |
| • from backplane bus maximum                                       | mA | 250                   |
| Power loss [W]   | W  | 2.9                   |
| Insulation voltage rated value                                     | V  | 500                   |
| Product function suitable for AS-i Power24V                        |    | Yes                   |
| • Note   |    | All product versions  |
| Product feature redundancy capability                              |    | No                    |
| Product function   |    |                       |

|  |  |                                |
|--|--|--------------------------------|
| • web-based management                           |  | No                             |
| • Diagnostics via email                          |  | No                             |
| • Galvanic isolation                             |  | Yes                            |
| <b>Display version</b>                           |  |                                |
| • as status display by LED                       |  | AS-i, PF, CM, CER, DIAG        |
| <b>Type of configuration of the AS-interface</b> |  | With STEP 7, command interface |

#### Communication/ Protocol:

|  |  |  |
|--|--|--|
| <b>Version of the AS-interface specification</b>       |  | V 3.0  |
| <b>AS-interface master profile is supported</b>        |  | M4 (in acc. with AS-interface specification V 3.0) |
| <b>Type of data transmission</b>                       |  | S7-1200 backplane bus                              |
| <b>Number of units per CPU maximum</b>                 |  | 1  |
| <b>Number of interfaces</b>                            |  |  |
| • as AS-interface                                      |  | 1  |
| • acc. to RS 485                                       |  | 0  |
| • acc. to Industrial Ethernet                          |  | 0  |
| • acc. to PROFINET                                     |  | 0  |
| • acc. to wireless                                     |  | 0  |
| • acc. to USB  |  | 0  |
| • other  |  | 0  |
| <b>Product component optical interface</b>             |  | No   |
| <b>Protocol is supported</b>                           |  |  |
| • ASIsafe (Safety at work) protocol                    |  | No   |
| • PROFIsafe protocol                                   |  | No   |
| • PROFIBUS protocol                                    |  | No   |
| • PROFINET IO protocol                                 |  | No   |
| • PROFINET CBA protocol                                |  | No   |
| • TCP/IP   |  | No   |
| • SNMP   |  | No   |
| <b>Standard for wireless communication IEEE 802.11</b> |  | No   |

#### Inputs/ Outputs:

|   |    |   |
|---|----|---|
| <b>Number of inputs for AS Interface maximum</b>      |    | 496   |
| <b>Number of outputs for AS Interface maximum</b>     |    | 496   |
| <b>Number of AS-i slaves per AS-Interface maximum</b> |    | 62  |
| <b>Bus cycle time of the AS-interface</b>             |    |   |
| • for 31 slaves                                       | ms | 5   |
| • for 62 slaves                                       | ms | 10  |
| <b>Access to digital I/O data</b>                     |    | via process image/peripheral addresses                            |
| <b>Access to analog I/O data</b>                      |    | via process diagram/peripheral addresses and data record transfer |

#### Mechanical data:

|              |    |    |
|--------------|----|----|
| <b>Width</b> | mm | 30 |
|--------------|----|----|

|               |    |  |
|---------------|----|--|
| Height        | mm | 100                                      |
| Depth         | mm | 75                                       |
| Mounting type |    | snap-on fastening on 35 mm standard rail |
| Module format |    | S7-1200 design                           |



#### Ambient conditions:



|   |    |             |
|---|----|-------------|
| <b>Ambient temperature</b>                                |    |             |
| • if installed on horizontal mounting rail                | °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 operation maximum       | %  | 95          |
| Installation altitude at height above sea level maximum   | m  | 2 000       |

#### Safety related data:

|  |  |      |
|--|--|------|
| Suitability for use safety-related function                            |  | No   |
| Explosion protection marking for intrinsic safety of related equipment |  |      |
| • EEx ia   |  | No   |
| • EEx ib   |  | No   |
| Explosion protection category for gas                                  |  | none |
| Explosion protection category for dust                                 |  | none |

#### Certificates/ approvals:

| General Product Approval  | For use in hazardous locations   | Declaration of Conformity   |
|---|--|---|
| <a href="#">FM</a><br><br>UL | <a href="#">Explosionsschutzzer<br/>tifikat</a><br><br>ATEX | <br>EG-Konf. |

| Shipping Approval   | other  |
|---|--|
| <br>GL | <a href="#">NK / Nippon Kaiji<br/>Kyokai</a><br><br>ASI |

#### Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

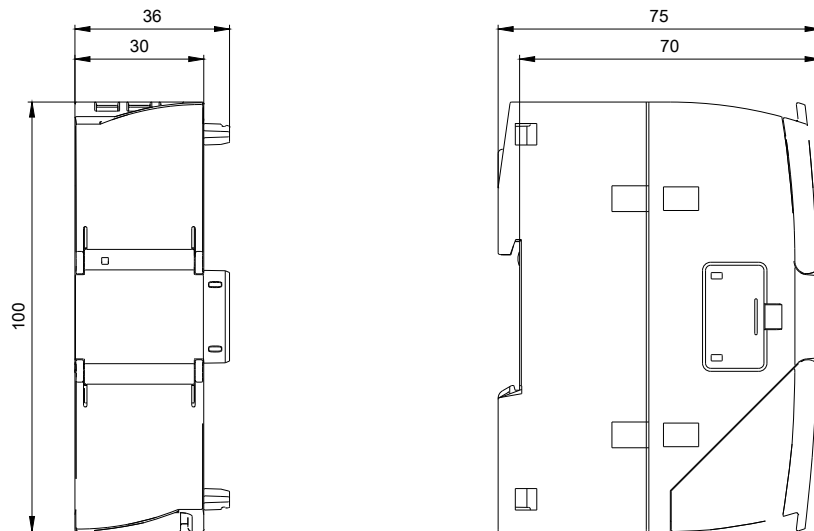
<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

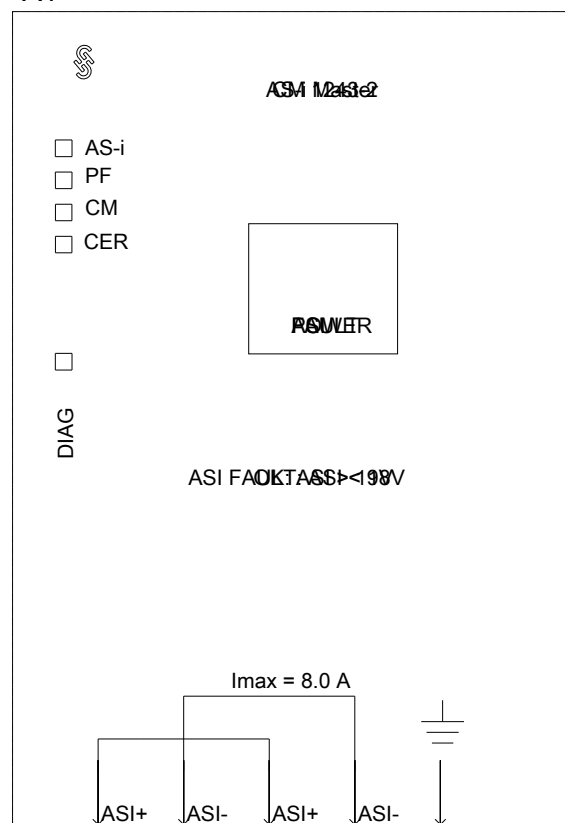
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