

SIMATIC S7-1200, CM 1243-2 communication module
AS-Interface master according to AS-i specification V3.0



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		
<ul style="list-style-type: none"> from profile conductors of the AS-Interface <ul style="list-style-type: none"> — at 30 V maximum 	mA	100
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> Note 		All product versions
Product feature redundancy capability		No
Product function		
<ul style="list-style-type: none"> web-based management 		No
<ul style="list-style-type: none"> Diagnostics via email 		No

<ul style="list-style-type: none"> Galvanic isolation 		Yes
Display version		
<ul style="list-style-type: none"> as status display by LED 		AS-i, PF, CM, CER, DIAG
Type of configuration of the AS-Interface		With STEP 7, command interface

Communication/ Protocol

Version of the AS-Interface specification		V 3.0
AS-Interface master profile is supported		M4 (in acc. with AS-interface specification V 3.0)
Type of data transmission		S7-1200 backplane bus
Number of units per CPU maximum		3
Number of units per CPU maximum Note		Max. 3 communication modules in total (CM /CP)
Number of interfaces		
<ul style="list-style-type: none"> as AS-Interface 		1
<ul style="list-style-type: none"> acc. to RS 485 		0
<ul style="list-style-type: none"> acc. to Industrial Ethernet 		0
<ul style="list-style-type: none"> acc. to PROFINET 		0
<ul style="list-style-type: none"> acc. to wireless 		0
<ul style="list-style-type: none"> acc. to USB 		0
<ul style="list-style-type: none"> other 		0
Product component optical interface		No
Protocol is supported		
<ul style="list-style-type: none"> ASIsafe (Safety at work) protocol 		No
<ul style="list-style-type: none"> PROFIsafe protocol 		No
<ul style="list-style-type: none"> PROFIBUS protocol 		No
<ul style="list-style-type: none"> PROFINET IO protocol 		No
<ul style="list-style-type: none"> PROFINET CBA protocol 		No
<ul style="list-style-type: none"> TCP/IP 		No
<ul style="list-style-type: none"> SNMP 		No
Standard for wireless communication IEEE 802.11		No

Inputs/ Outputs

Number of inputs for AS Interface maximum		496
Number of outputs for AS Interface maximum		496
Number of AS-i slaves per AS-Interface maximum		62
Bus cycle time of the AS-Interface		
<ul style="list-style-type: none"> for 31 slaves 	ms	5
<ul style="list-style-type: none"> for 62 slaves 	ms	10
Access to digital I/O data		via process image/peripheral addresses
Access to analog I/O data		via process diagram/peripheral addresses and data record transfer

Mechanical data

Width	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



Ambient temperature		
• 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	EMC	For use in hazardous locations
FM  UL	 EAC  RCM	Explosion Protection Certificate  ATEX

Declaration of Conformity	Shipping Approval	other
 EG-Konf.	Miscellaneous NK / Nippon Kaiji Kyokai	 ASI Confirmation

Further information

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

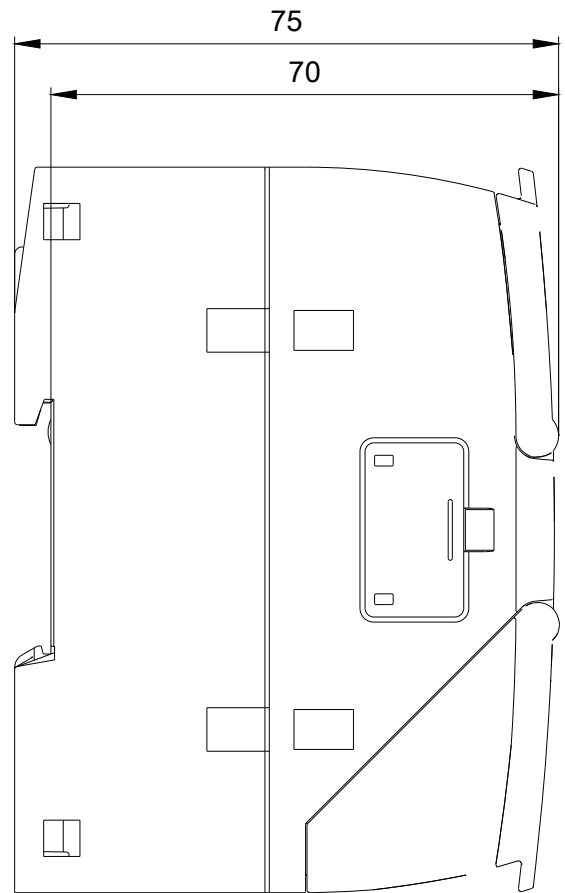
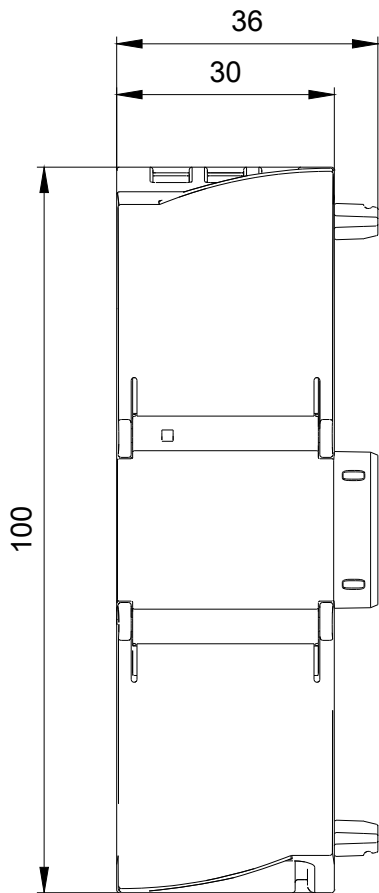
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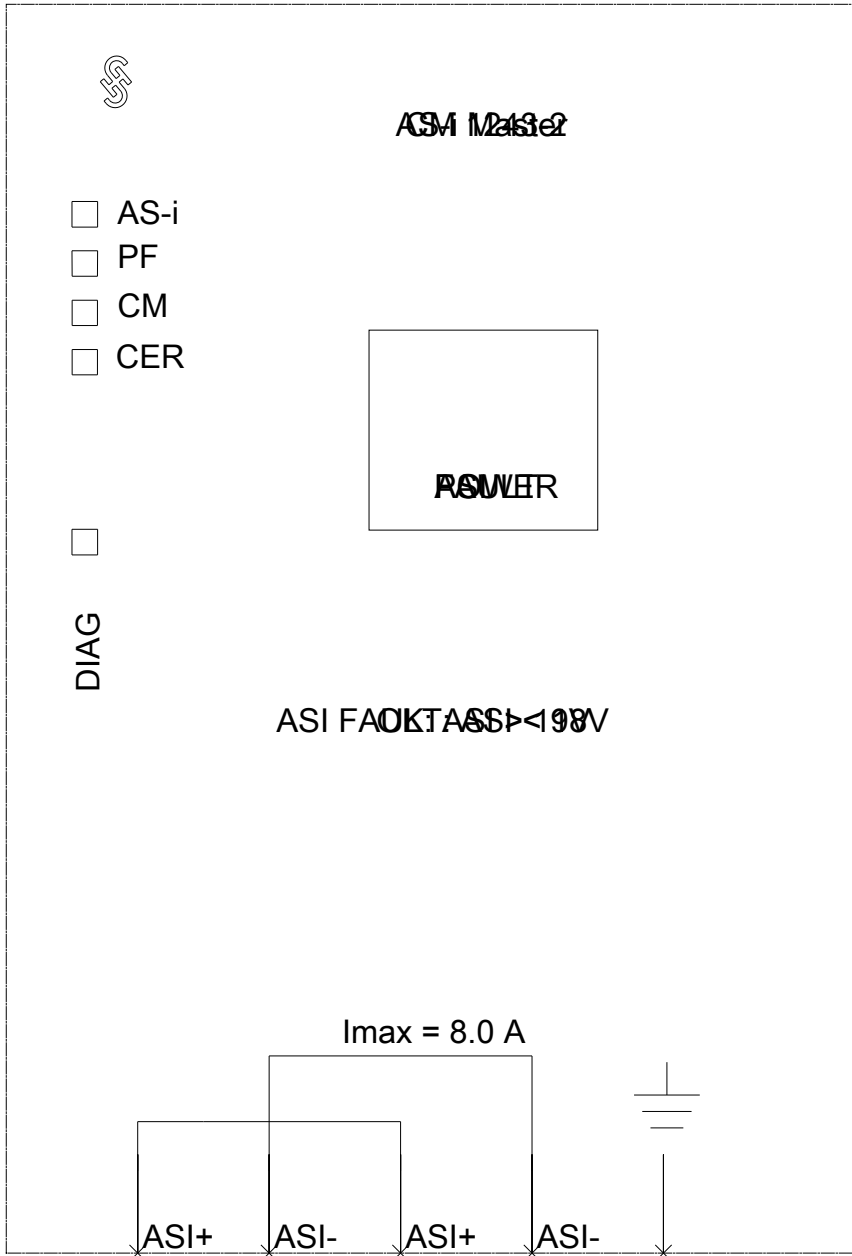
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last modified:

09/01/2020