SIEMENS

SIMATIC ET 200SP communication module CM AS-Interface
Master ST according to AS-i specification V3.0

General technical data		
product designation		AS-Interface Master
product type designation		CM AS-i Master ST
protection class IP		IP20
type of electrical connection of the AS-Interface		ET 200SP BaseUnit (Type C0), 20 mm
type of voltage supply		Via AS-i and backplane bus
consumed current		
● from profile conductors of the AS-Interface		
— at 30 V maximum	mA	70
— at 24 V with AS-i Power24V maximum	mA	70
● from backplane bus maximum	mA	5
power loss [W]	W	1.7
insulation voltage rated value	V	500
product feature redundancy capability		Yes
product function suitable for AS-i Power24V		Yes
● note		All product versions
product function suitable for operation on PROFINET R1 IMs		Yes
product function		
● web-based management		No
● diagnostics via email		No
● galvanic isolation		Yes
display version		
● as status display by LED		DIAG, AS-i OK, AS-i FAULT, PF, CER, CM, AUP, PWR, SL_Xy (A), SL_xY (B)
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		ET 200SP backplane bus
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
● other		0
product component optical interface		No
protocol is supported		
● 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
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		
● for 31 slaves	ms	5
● 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	20
height	mm	69.2
depth	mm	53.6
fastening method		pluggable in BaseUnit
module format		IP20

Ambient conditions

ambient temperature		
● if installed on horizontal mounting rail during operation	°C	-25 ... +60
● if installed on vertical mounting rail during operation	°C	-25 ... +50
● 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		II 3 G Ex ec IIC T4 Gc
explosion protection category for dust		none

Certificates/ approvals

General Product Approval		EMC	For use in hazardous locations
[Confirmation](#) [FM](#)	UL EAC RCM		CQC

For use in hazardous locations	Declaration of Conformity	Marine / Shipping	other
[Explosion Protection Certificate](#) IECEx ATEX	CE EG-Konf.	DNV·GL	ASi

other			
[Confirmation](#)			

Siemens has decided to exit the Russian market (see here).
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.
Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/ic10

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK7137-6SA00-0BC1
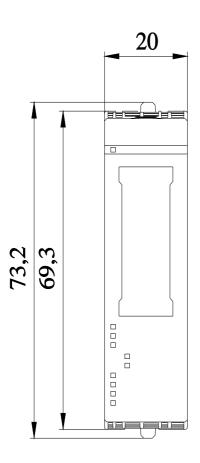
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK7137-6SA00-0BC1
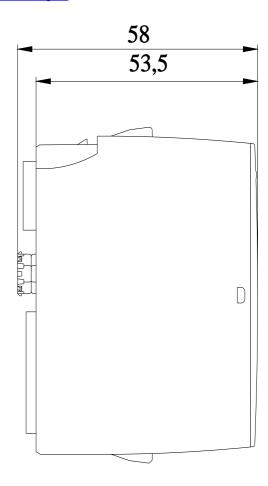
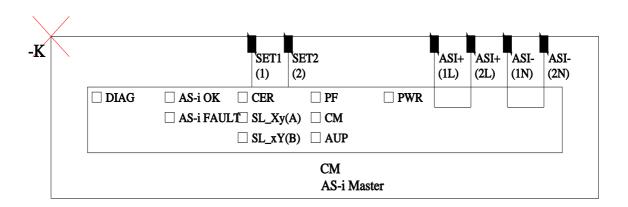**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3RK7137-6SA00-0BC1

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK7137-6SA00-0BC1&lang=en

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SET1 (1) SET2 (2) ASI+ (1L) ASI+ (2L) ASI- (1N) ASI- (2N)

☐ DIAG   ☐ AS-i OK   ☐ CER   ☐ PF   ☐ PWR
          ☐ AS-i FAULT ☐ SL_Xy(A) ☐ CM
                        ☐ SL_xY(B) ☐ AUP

CM
AS-i Master

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11/8/2023