

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         |
| Operating condition separate power supply 24 V    |    | No                                 |
| 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 | 20                                 |
| Power loss [W]                                    | W  | 1.7                                |
| 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                                 |

|                                                                                                         |  |                                                                        |
|---------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Diagnostics via email</li> <li>• Galvanic isolation</li> </ul> |  | No                                                                     |
|                                                                                                         |  | Yes                                                                    |
| <b>Display version</b>                                                                                  |  |                                                                        |
| <ul style="list-style-type: none"> <li>• as status display by LED</li> </ul>                            |  | DIAG, AS-i OK, AS-i FAULT, PF, CER, CM, AUP, PWR, SL_Xy (A), SL_xY (B) |
| <b>Type of configuration of the AS-Interface</b>                                                        |  | Set pushbutton on device, STEP7, GSD, 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>                                                      |  | ET 200SP backplane bus                             |
| <b>Number of interfaces</b>                                                           |  |                                                    |
| <ul style="list-style-type: none"> <li>• as AS-Interface</li> </ul>                   |  | 1                                                  |
| <ul style="list-style-type: none"> <li>• acc. to RS 485</li> </ul>                    |  | 0                                                  |
| <ul style="list-style-type: none"> <li>• acc. to Industrial Ethernet</li> </ul>       |  | 0                                                  |
| <ul style="list-style-type: none"> <li>• acc. to PROFINET</li> </ul>                  |  | 0                                                  |
| <ul style="list-style-type: none"> <li>• acc. to wireless</li> </ul>                  |  | 0                                                  |
| <ul style="list-style-type: none"> <li>• acc. to USB</li> </ul>                       |  | 0                                                  |
| <ul style="list-style-type: none"> <li>• other</li> </ul>                             |  | 0                                                  |
| <b>Product component optical interface</b>                                            |  | No                                                 |
| <b>Protocol is supported</b>                                                          |  |                                                    |
| <ul style="list-style-type: none"> <li>• ASIsafe (Safety at work) protocol</li> </ul> |  | No                                                 |
| <ul style="list-style-type: none"> <li>• PROFI-safe protocol</li> </ul>               |  | No                                                 |
| <ul style="list-style-type: none"> <li>• PROFIBUS protocol</li> </ul>                 |  | No                                                 |
| <ul style="list-style-type: none"> <li>• PROFINET IO protocol</li> </ul>              |  | No                                                 |
| <ul style="list-style-type: none"> <li>• PROFINET CBA protocol</li> </ul>             |  | No                                                 |
| <ul style="list-style-type: none"> <li>• TCP/IP</li> </ul>                            |  | No                                                 |
| <ul style="list-style-type: none"> <li>• SNMP</li> </ul>                              |  | 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>                         |    |                                                                   |
| <ul style="list-style-type: none"> <li>• for 31 slaves</li> </ul> | ms | 5                                                                 |
| <ul style="list-style-type: none"> <li>• for 62 slaves</li> </ul> | 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 | 20   |
| <b>Height</b> | mm | 69.2 |

|               |    |                       |
|---------------|----|-----------------------|
| Depth         | mm | 53.6                  |
| Mounting type |    | pluggable in BaseUnit |
| Module format |    | IP20                  |

#### Ambient conditions

|                                                                |    |             |
|----------------------------------------------------------------|----|-------------|
| <b>Ambient temperature</b>                                     |    |             |
| • if installed on horizontal mounting rail                     | °C | 0 ... 60    |
| • if installed on vertical mounting rail during operation      | °C | 0 ... 50    |
| • during transport                                             | °C | -40 ... +70 |
| • during storage                                               | °C | -40 ... +70 |
| <b>Relative humidity at 25 °C during operation maximum</b>     | %  | 95          |
| <b>Installation altitude at height above sea level maximum</b> | m  | 2 000       |

#### Safety related data

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

#### Certificates/ approvals

| General Product Approval                                                            | EMC                                                                                 | For use in hazardous locations                                                      | Declaration of Conformity                                                             |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <a href="#">FM</a>                                                                  |                                                                                     |                                                                                     | <a href="#">Miscellaneous</a>                                                         |
|  |  |  |  |
| UL                                                                                  |                                                                                     | RCM                                                                                 | ATEX                                                                                  |

|                                                                                     |                              |
|-------------------------------------------------------------------------------------|------------------------------|
| <b>Shipping Approval</b>                                                            | other                        |
| <a href="#">NK / Nippon Kaiji Kyokai</a>                                            | <a href="#">Confirmation</a> |
|  |                              |
| ASi                                                                                 |                              |

#### Further information

**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**

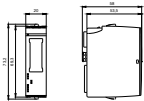
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK7137-6SA00-0BC1>

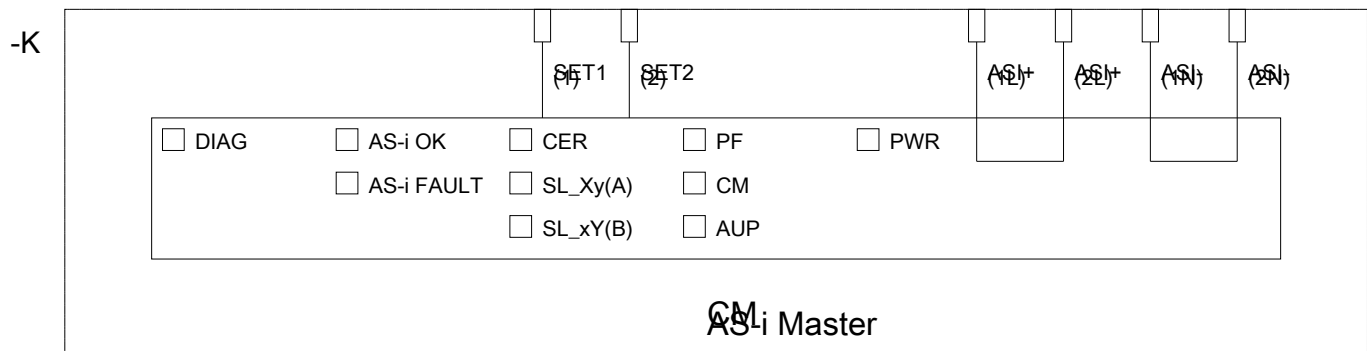
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<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](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK7137-6SA00-0BC1&lang=en)





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