

### product type designation



### CM 1242-5

communications module CM 1242-5; for connection of SIMATIC S7-1200 to PROFIBUS as DP slave module.

| transfer rate  |                                     |
|--|-------------------------------------|
| transfer rate  |                                     |
| <ul style="list-style-type: none"> <li>at the 1st interface / according to PROFIBUS</li> </ul>                 | 9.6 kbit/s ... 12 Mbit/s            |
| interfaces   |                                     |
| number of interfaces / according to Industrial Ethernet  | 0                                   |
| number of electrical connections   |                                     |
| <ul style="list-style-type: none"> <li>at the 1st interface / according to PROFIBUS</li> </ul>                 | 1                                   |
| <ul style="list-style-type: none"> <li>for power supply</li> </ul>   | 0                                   |
| type of electrical connection  |                                     |
| <ul style="list-style-type: none"> <li>at the 1st interface / according to PROFIBUS</li> </ul>                 | 9-pin Sub-D socket (RS485)          |
| supply voltage, current consumption, power loss  |                                     |
| type of voltage / of the supply voltage  | DC                                  |
| supply voltage / 1 / from backplane bus  | 5 V                                 |
| consumed current   |                                     |
| <ul style="list-style-type: none"> <li>from backplane bus / at DC / at 5 V / typical</li> </ul>                | 0.15 A                              |
| power loss [W]   | 0.75 W                              |
| ambient conditions   |                                     |
| ambient temperature  |                                     |
| <ul style="list-style-type: none"> <li>for vertical installation / during operation</li> </ul>                 | 0 ... 45 °C                         |
| <ul style="list-style-type: none"> <li>for horizontally arranged busbars / during operation</li> </ul>         | 0 ... 55 °C                         |
| <ul style="list-style-type: none"> <li>during storage</li> </ul>   | -40 ... +70 °C                      |
| <ul style="list-style-type: none"> <li>during transport</li> </ul>   | -40 ... +70 °C                      |
| relative humidity  |                                     |
| <ul style="list-style-type: none"> <li>at 25 °C / without condensation / during operation / maximum</li> </ul> | 95 %                                |
| protection class IP  | IP20                                |
| design, dimensions and weights   |                                     |
| module format  | Compact module S7-1200 single width |
| width  | 30 mm                               |
| height   | 100 mm                              |
| depth  | 75 mm                               |
| net weight   | 0.115 kg                            |
| fastening method   |                                     |
| <ul style="list-style-type: none"> <li>35 mm top hat DIN rail mounting</li> </ul>                              | Yes                                 |
| <ul style="list-style-type: none"> <li>S7-300 rail mounting</li> </ul>   | No                                  |
| <ul style="list-style-type: none"> <li>wall mounting</li> </ul>  | Yes                                 |
| product features, product functions, product components / general  |                                     |
| number of units  |                                     |
| <ul style="list-style-type: none"> <li>per CPU / maximum</li> </ul>  | 3                                   |

|  |   |
|--|---|
| <b>performance data / PROFIBUS DP</b>  |   |
| service / as DP slave  |   |
| • DPV0   | Yes   |
| • DPV1   | Yes   |
| data volume  |   |
| • of the address range of the inputs / as DP slave / total                     | 240 byte  |
| • of the address range of the outputs / as DP slave / total                    | 240 byte  |
| <b>performance data / telecontrol</b>  |   |
| protocol / is supported  |   |
| • TCP/IP   | No  |
| <b>product functions / management, configuration, engineering</b>              |   |
| configuration software   |   |
| • required   | STEP 7 Basic/Professional   |
| <b>standards, specifications, approvals / hazardous environments</b>           |   |
| certificate of suitability / CCC / for hazardous zone according to GB standard | Yes; GB3836.1, GB3836.8   |
| • as marking   | Ex nA IIC T4 Gc   |
| <b>further information / internet links</b>                                    |   |
| internet link  |   |
| • to web page: selection aid TIA Selection Tool                                | <a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>   |
| • to website: Industrial communication   | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>   |
| • to website: Industry Mall  | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>   |
| • to website: Information and Download Center                                  | <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>   |
| • to website: Image database   | <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>   |
| • to website: CAX-Download-Manager   | <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>   |
| • to website: Industry Online Support  | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>   |
| <b>security information</b>  |   |
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