



### Main

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| Range of product                       | Modicon M340 automation platform                                     |
| Product or component type              | Processor module   |
| Number of racks                        | 2  |
| Number of slots                        | 11   |
| Discrete I/O processor capacity        | 512 I/O single-rack configuration                                    |
| Analogue I/O processor capacity        | 66 I/O single-rack configuration<br>128 I/O multi-rack configuration |
| Number of application specific channel | 20   |
| Monitoring                             | Diagnostic counters Modbus<br>Event counters Modbus                  |

### Complementary

|   |  |
|---|--|
| Control channels                        | Programmable loops   |
| Integrated connection type              | Non isolated serial link RJ45 character mode, transmission mode: asynchronous in baseband, RS232C, transmission mode: 2 twisted shielded pairs at 0.3...19.2 kbit/s full duplex<br>Non isolated serial link RJ45 character mode, transmission mode: asynchronous in baseband, RS485, transmission mode: 1 twisted shielded pair at 0.3...19.2 kbit/s half duplex<br>Non isolated serial link RJ45, master/slave Modbus, RTU/ASCII, transmission mode: asynchronous in baseband, RS232C, transmission mode: 1 twisted shielded pair at 0.3...19.2 kbit/s half duplex<br>Non isolated serial link RJ45, master/slave Modbus, RTU/ASCII, transmission mode: asynchronous in baseband, RS485, transmission mode: 1 twisted shielded pair at 0.3...19.2 kbit/s half duplex<br>USB port at 12 Mbit/s |
| Communication module processor capacity | 2 Ethernet communication module<br>2 AS-Interface module   |
| Number of devices per segment           | 0...32 (character mode)<br>0...32 (Modbus)   |
| Number of devices                       | 2 point-to-point character mode<br>2 point-to-point Modbus   |
| Bus length                              | 0...10 M serial link non isolated character mode segment<br>0...10 M serial link non isolated Modbus segment<br>0...1000 M serial link isolated character mode segment<br>0...1000 M serial link isolated Modbus segment<br>0...15 M character mode point-to-point<br>0...15 M Modbus point-to-point   |
| Maximum tap links length                | <15 M serial link non isolated character mode segment<br><15 M serial link non isolated Modbus segment<br><40 M serial link isolated character mode segment<br><40 M serial link isolated Modbus segment   |
| Number of addresses                     | 0...248 for character mode<br>0...248 for Modbus   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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|--------------------------------|---|
| Requests                       | 1 K data bytes per request character mode<br>252 data bytes per RTU request Modbus<br>504 data bytes per ASCII request Modbus   |
| Control parameter              | One CRC on each frame (RTU) Modbus<br>One LRC on each frame (ASCII) character mode<br>One LRC on each frame (ASCII) Modbus  |
| Memory description             | Internal RAM 2048 kB<br>Internal RAM 128 kB data<br>Internal RAM 1792 kB program constants and symbols<br>Supplied memory card (BMXRMS008MP) backup of programs, constants, symbols and data                          |
| Maximum size of object areas   | 128 kB unlocated internal data<br>16250 %Mi located internal bits<br>32464 %MWi internal words located internal data<br>32760 %KWi constant words located internal data   |
| Default size of object areas   | 128 %KWi constant words located internal data<br>256 %Mi located internal bits<br>512 %MWi internal words located internal data   |
| Application structure          | 1 periodic fast task<br>32 event tasks<br>1 cyclic/periodic master task<br>No auxiliary task  |
| Execution time per instruction | 0.18 µs Boolean<br>0.26 µs double-length words<br>0.38 µs single-length words<br>1.74 µs floating points  |
| Number of instructions per ms  | 4.2 Kinst/ms 65 % Boolean + 35 % fixed arithmetic<br>5.4 Kinst/ms 100 % Boolean   |
| System overhead                | 0.2 Ms for fast task<br>1.05 Ms for master task   |
| Current consumption            | 72 mA at 24 V DC  |
| Supply                         | Internal power supply via rack  |
| Marking                        | CE  |
| Status LED                     | 1 LED (green)processor running (RUN):<br>1 LED (red)I/O module fault (I/O):<br>1 LED (red)memory card fault (CARD ERR):<br>1 LED (red)processor or system fault (ERR):<br>1 LED (yellow)activity on Modbus (SER COM): |
| Net weight                     | 0.2 Kg  |

## Environment

|                                       |   |
|---------------------------------------|---|
| Ambient air temperature for operation | 0...60 °C   |
| Relative humidity                     | 10...95 % without condensation  |
| IP degree of protection               | IP20  |
| Protective treatment                  | TC  |
| Directives                            | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility<br>2012/19/EU - WEEE directive |
| Standards                             | EN 61131-2<br>EN 61000-6-4<br>EN 61000-6-2<br>EN 61010-2-201  |

## Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| REACH Regulation           | <a href="#">REACH Declaration</a>  |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes  |
| RoHS exemption information | <a href="#">Yes</a>  |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>   |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>  |

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|---------------------|---|
| Circularity Profile | <a href="#">End Of Life Information</a>   |
| WEEE                | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

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### Contractual warranty

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| Warranty | 18 months |
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Product Life Status : **Commercialised**