



## Main

|  |  |
|--|--|
| Range of product                       | Modicon M340 automation platform                                       |
| Product or component type              | Processor module   |
| Concept                                | CANopen<br>Transparent Ready   |
| Number of racks                        | 4  |
| Number of slots                        | 11   |
| Discrete I/O processor capacity        | 1024 I/O multi-rack configuration<br>704 I/O single-rack configuration |
| Analogue I/O processor capacity        | 256 I/O multi-rack configuration<br>66 I/O single-rack configuration   |
| Number of application specific channel | 36   |
| Monitoring                             | Diagnostic counters Modbus<br>Event counters Modbus                    |

## Complementary

|                                |  |
|--------------------------------|--|
| Control channels               | Programmable loops   |
| Integrated connection type     | Ethernet TCP/IP RJ45 10/100 Mbit/s 1 twisted pair<br>USB port 12 Mbit/s<br>Non isolated serial link RJ45 character mode asynchronous in baseband RS232C full duplex<br>0.3...19.2 kbit/s 2 twisted shielded pairs<br>Non isolated serial link RJ45 character mode asynchronous in baseband RS485 half duplex<br>0.3...19.2 kbit/s 1 twisted shielded pair<br>Non isolated serial link RJ45 Modbus master/slave RTU/ASCII asynchronous in baseband RS232C<br>half duplex 0.3...19.2 kbit/s 1 twisted shielded pair<br>Non isolated serial link RJ45 Modbus master/slave RTU/ASCII asynchronous in baseband RS485<br>half duplex 0.3...19.2 kbit/s 1 twisted shielded pair |
| Communication module processor | 2 Ethernet communication module<br>4 AS-Interface module   |
| Communication service          | Bandwidth management, Ethernet TCP/IP<br>Data Editor, Ethernet TCP/IP<br>Modbus TCP messaging, Ethernet TCP/IP<br>Rack Viewer, Ethernet TCP/IP<br>SNMP network administrator, Ethernet TCP/IP  |

|                                |  |
|--------------------------------|--|
| Port Ethernet                  | 10BASE-T/100BASE-TX  |
| 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   |
| Tap links length               | 0...15 m serial link non isolated character mode segment<br>0...15 m serial link non isolated Modbus segment<br>0...40 m serial link isolated character mode segment<br>0...40 m serial link isolated Modbus segment   |
| Number of addresses            | 0...248 character mode<br>0...248 Modbus   |
| 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             | 4096 kB internal RAM<br>256 kB internal RAM for data<br>3584 kB internal RAM for program constants and symbols<br>Supplied memory card (BMXRMS008MP) for activation of standard web server, class B10<br>Supplied memory card (BMXRMS008MP) for backup of programs, constants, symbols and data  |
| Maximum size of object areas   | 256 kB unlocated internal data<br>32634 %Mi located internal bits  |
| Default size of object areas   | 1024 %MWi internal words located internal data<br>256 %KWl constant words located internal data<br>512 %Mi located internal bits   |
| Application structure          | 1 periodic fast task<br>64 event tasks<br>1 cyclic/periodic master task<br>No auxiliary task   |
| Execution time per instruction | 0.12 µs Boolean<br>0.17 µs double-length words<br>0.25 µs single-length words<br>1.16 µs floating points   |
| Number of instructions per ms  | 6.4 Kinst/ms 65 % Boolean + 35 % fixed arithmetic<br>8.1 Kinst/ms 100 % Boolean  |
| System overhead                | 0.13 ms fast task<br>0.7 ms master task  |
| Current consumption            | 95 mA 24 V DC  |
| Supply                         | Internal power supply via rack   |
| Marking                        | CE   |
| Status LED                     | 1 LED green activity on Ethernet network (ETH ACT)<br>1 LED green processor running (RUN)<br>1 LED green status of Ethernet network (ETH STS)<br>1 LED red data rate (ETH 100)<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) |
| Product weight                 | 0.205 kg   |

## Environment

|                                       |                                |
|---------------------------------------|--------------------------------|
| Ambient air temperature for operation | 0...60 °C                      |
| Relative humidity                     | 10...95 % without condensation |
| IP degree of protection               | IP20                           |
| Protective treatment                  | TC                             |
| Standards                             | CSA C22.2 No 142               |

### Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 0722 - Schneider Electric declaration of conformity<br><a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference contains SVHC above the threshold - Go to CaP for more details<br><a href="#">Go to CaP for more details</a>                |
| Product environmental profile    | Available<br><a href="#">Product environmental</a>  |
| Product end of life instructions | Available<br><a href="#">End of life manual</a>   |

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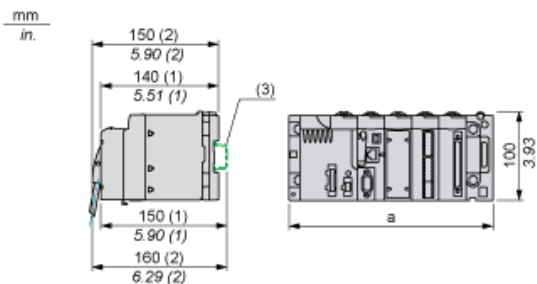
### Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

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Modules Mounted on Racks

Dimensions



- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

| Rack references            | a in mm | a in in. |
|----------------------------|---------|----------|
| BMXXBP0400 and BMXXBP0400H | 242.4   | 09.54    |
| BMXXBP0600 and BMXXBP0600H | 307.6   | 12.11    |
| BMXXBP0800 and BMXXBP0800H | 372.8   | 14.68    |
| BMXXBP1200 and BMXXBP1200H | 503.2   | 19.81    |

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