



## 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>Non isolated serial link RJ45 character mode asynchronous in baseband RS232C full duplex 0.3...19.2 kbit/s 2 twisted shielded pairs<br>Non isolated serial link RJ45 character mode asynchronous in baseband RS485 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 RS232C 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 half duplex 0.3...19.2 kbit/s 1 twisted shielded pair<br>USB port 12 Mbit/s |
| Communication module processor | 2 Ethernet communication module<br>4 AS-Interface module                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Embedded 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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.

|                                |                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Memory description             | Supplied memory card (BMXRMS008MP) for backup of programs, constants, symbols and data<br>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                                                        |
| 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 %KWi constant words located internal data<br>512 %Mi located internal bits                                                                                                                                                                                                                       |
| Application structure          | 1 cyclic/periodic master task<br>1 periodic fast task<br>64 event tasks<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<br>EN 61131-2<br>IEC 61131-2<br>UL 508<br>CSA C22.2 No 213 Class I Division 2 |

## Offer Sustainability

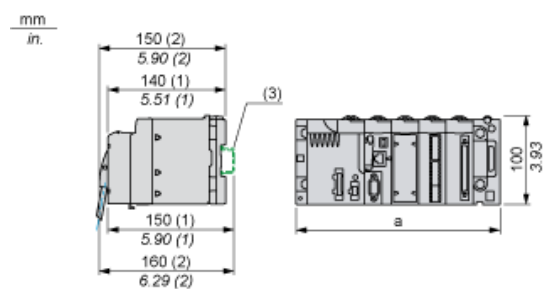
|                               |                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status      | Not Green Premium product                                                             |
| RoHS (date code: YYWW)        | Compliant - since 0722 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                         | Reference not containing SVHC above the threshold                                     |
| Product environmental profile | Available <a href="#">Download Product Environmental</a>                              |

## Contractual warranty

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

## 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    |