



Main

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| Range of product | Modicon M340 automation platform |
| Product or component type | Processor module |
| Number of racks | 1 |
| Number of slots | 11 |
| Discrete I/O processor capacity | 1024 I/O single-rack configuration |
| Analogue I/O processor capacity | 256 I/O multi-rack configuration 66 I/O single-rack configuration |
| Number of application specific channel | 36 |
| Monitoring | Diagnostic counters Modbus Event counters Modbus |

Complementary







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| 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 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 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 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 USB port at 12 Mbit/s |
| Communication module processor capacity | 2 Ethernet communication module 4 AS-Interface module |
| Number of devices per segment | 0...32 (character mode) 0...32 (Modbus) |
| Number of devices | 2 point-to-point character mode 2 point-to-point Modbus |
| Bus length | 0...10 M serial link non isolated character mode segment 0...10 M serial link non isolated Modbus segment 0...1000 M serial link isolated character mode segment 0...1000 M serial link isolated Modbus segment 0...15 M character mode point-to-point 0...15 m Modbus point-to-point |
| Maximum tap links length | <15 M serial link non isolated character mode segment <15 M serial link non isolated Modbus segment <40 M serial link isolated character mode segment <40 m serial link isolated Modbus segment |
| Number of addresses | 0...248 for character mode 0...248 for Modbus |
| Requests | 1 K data bytes per request character mode 252 data bytes per RTU request Modbus 504 data bytes per ASCII request Modbus |
| Control parameter | One CRC on each frame (RTU) Modbus One LRC on each frame (ASCII) character mode One LRC on each frame (ASCII) Modbus |

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|--------------------------------|---|
| Memory description | Internal RAM 2048 kB Internal RAM 128 kB data Internal RAM 1792 kB program constants and symbols Supplied memory card (BMXRMS008MP) backup of programs, constants, symbols and data |
| Maximum size of object areas | 128 kB unlocated internal data 16250 %Mi located internal bits 32464 %MWi internal words located internal data 32760 %KWi constant words located internal data |
| Default size of object areas | 128 %KWi constant words located internal data 256 %Mi located internal bits 512 %MWi internal words located internal data |
| Application structure | 1 cyclic/periodic master task 1 periodic fast task No auxiliary task 32 event tasks |
| Execution time per instruction | 0.18 µs Boolean 0.26 µs double-length words 0.38 µs single-length words 1.74 µs floating points |
| Number of instructions per ms | 4.2 Kinst/ms 65 % Boolean + 35 % fixed arithmetic 5.4 Kinst/ms 100 % Boolean |
| System overhead | 0.2 Ms for fast task 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): 1 LED (red)I/O module fault (I/O): 1 LED (red)memory card fault (CARD ERR): 1 LED (red)processor or system fault (ERR): 1 LED (yellow)activity on Modbus (SER COM): |
| Product weight | 0.2 kg |

Environment

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|---------------------------------------|---|
| 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 2014/30/EU - electromagnetic compatibility 2012/19/EU - WEEE directive |
| Standards | EN 61131-2 EN 61000-6-4 EN 61000-6-2 EN 61010-2-201 |

Offer Sustainability

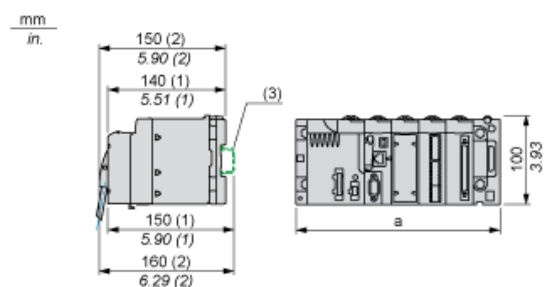
| | |
|----------------------------|--|
| Sustainable offer status | Green Premium product |
| REACH Regulation |  REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information |  Yes |
| China RoHS Regulation |  China RoHS Declaration |
| Environmental Disclosure |  Product Environmental Profile |
| Circularity Profile |  End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Contractual warranty

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| Warranty | 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 |