

# เอกสารข้อมูลผลิตภัณฑ์

ข้อมูลจำเพาะ



Standalone processor, Modicon M580, 12MB, 125 Ethernet devices, 8 Local I/O racks (3072 Digital, 768 Analog)

BMEP583020

### Main

|                           |                  |
|---------------------------|------------------|
| Range of product          | Modicon M580     |
| Product or component type | Processor module |

### Complementary

|                                                     |                                                                                                                                                             |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of racks                                     | 8                                                                                                                                                           |
| Local I/O processor capacity (discrete)             | 3072 I/O                                                                                                                                                    |
| Local I/O processor capacity (analog)               | 768 I/O                                                                                                                                                     |
| Number of application specific channel (local rack) | 108                                                                                                                                                         |
| Application specific I/O                            | Serial link<br>Motion control<br>HART<br>SSI encoder<br>Counter<br>Accurate time stamping                                                                   |
| Checks                                              | Process control                                                                                                                                             |
| Control channels                                    | Programmable loops                                                                                                                                          |
| Integrated connection type                          | 1 Ethernet TCP/IP for service port<br>2 Ethernet TCP/IP for device network<br>USB type mini B                                                               |
| Number of distributed equipment                     | 128                                                                                                                                                         |
| Communication module processor capacity             | 8 AS-Interface module<br>3 Ethernet communication module                                                                                                    |
| Communication service                               | DIO scanner                                                                                                                                                 |
| Memory description                                  | Expandable flash, 4 GB for data storage<br>Integrated RAM, 10 kB for system memory<br>Integrated RAM, 12 MB for program<br>Integrated RAM, 1024 kB for data |
| Application structure                               | 1 periodic fast task<br>2 auxiliary tasks<br>128 event tasks<br>1 cyclic/periodic master task                                                               |
| Number of instructions per ms                       | 15 Kinst/ms 65 % Boolean + 35 % fixed arithmetic<br>20 Kinst/ms 100 % Boolean                                                                               |
| Current consumption                                 | 295 mA at 24 V DC                                                                                                                                           |
| MTBF reliability                                    | 600000 H                                                                                                                                                    |

|         |    |
|---------|----|
| Marking | CE |
|---------|----|

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Vibration resistance                  | 3 gn                                                                                                                                                                                                                                                                                                                                                |
| Shock resistance                      | 30 gn                                                                                                                                                                                                                                                                                                                                               |
| Ambient air temperature for operation | 0...60 °C                                                                                                                                                                                                                                                                                                                                           |
| Ambient air temperature for storage   | -40...85 °C                                                                                                                                                                                                                                                                                                                                         |
| Operating altitude                    | 0...2000 m<br>2000...5000 m with derating factor                                                                                                                                                                                                                                                                                                    |
| Relative humidity                     | 5...95 % at 55 °C without condensation                                                                                                                                                                                                                                                                                                              |
| IP degree of protection               | IP20                                                                                                                                                                                                                                                                                                                                                |
| Directives                            | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility                                                                                                                                                                                                                                                                    |
| Product certifications                | CE<br>UL<br>CSA<br>RCM<br>EAC<br>Merchant Navy                                                                                                                                                                                                                                                                                                      |
| Standards                             | EN 61131-2<br>EN/IEC 61010-2-201<br>UL 61010-2-201<br>CSA C22.2 No 61010-2-201<br>IACS E10<br>EN/IEC 61000-6-5, interface type 1 and type 2<br>EN/IEC 61850-3, location G                                                                                                                                                                           |
| Environmental characteristic          | Hazardous location class I division 2                                                                                                                                                                                                                                                                                                               |
| Supply                                | Internal power supply via rack                                                                                                                                                                                                                                                                                                                      |
| Status LED                            | 1 LED (green) processor running (RUN)<br>1 LED (red) processor or system fault (ERR)<br>1 LED (red) I/O module fault (I/O)<br>1 LED (green) download in progress (DL)<br>1 LED (red) memory card or CPU flash fault (BACKUP)<br>1 LED (green/red) ETH MS (Ethernet port configuration status)<br>1 LED (green/red) Eth NS (Ethernet network status) |
| Net weight                            | 0.849 kg                                                                                                                                                                                                                                                                                                                                            |

## Packing Units

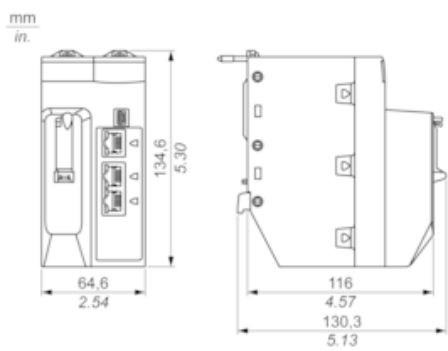
|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 9.0 cm  |
| Package 1 Width              | 17.8 cm |
| Package 1 Length             | 25.0 cm |
| Package 1 Weight             | 869.0 g |
| Unit Type of Package 2       | S03     |
| Number of Units in Package 2 | 6       |
| Package 2 Height             | 30.0 cm |
| Package 2 Width              | 30.0 cm |
| Package 2 Length             | 40.0 cm |
| Package 2 Weight             | 5.65 kg |

## 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)<br><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>                                                                                      |
| 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 |

CPU Module Only

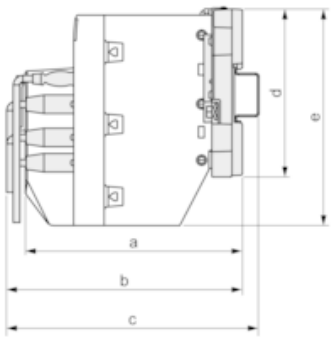


Modules Mounted on Racks



- a:** additional space below the rack to accommodate the height of the CPU. For an X Bus rack, the value is 30.9 mm (1.217 in.); for an Ethernet rack, the value is 29.49 mm (1.161 in.).
- b:** the height of the rack. For an X Bus rack, the height is 103.7 mm (4.083 in.); for an Ethernet rack, the height is 105.11 mm (4.138 in.).
- c:** the height of the main local rack, 134.6 mm (5.299 in.)

Modules and Cables Mounted in an Enclosure



- a: enclosure depth: 135 mm (5.315 in.)
- b: wiring + module depth: > 146 mm (5.748 in.)
- c: wiring + module + DIN rail depth: > 156 mm (6.142 in.)
- d: rack height: for an X Bus rack 103.7 mm (4.083 in.); for an Ethernet rack, 105.11 mm (4.138 in.)
- e: module height: 134.6 mm (5.299 in.)