# Product data sheet
## Characteristics

# BMEP585040
## processor module M580 - Level 5 - Remote

### Main

| | |
|---|---|
| Range of product | Modicon M580 |
| Product or component type | Processor module |
| Supply | Internal power supply via rack |

### Complementary

| | |
|---|---|
| Number of racks | 8 |
| Local I/O processor capacity (discrete) | 5120 I/O |
| Local I/O processor capacity (analog) | 1280 I/O |
| Number of application specific channel (local rack) | 180 |
| Application specific I/O | Accurate time stamping<br>Counter<br>Serial link<br>Motion control<br>HART<br>SSI encoder |
| Checks | Process control |
| Control channels | Programmable loops |
| Integrated connection type | 1 Ethernet TCP/IP service port<br>2 Ethernet TCP/IP device network<br>USB type mini B |
| Number of remote I/O station | 31 - 2 rack(s) per remote drop |
| Number of distributed equipment | 64 |
| Communication module processor | 8 AS-Interface module<br>6 Ethernet communication module |
| Communication service | DIO scanner<br>RIO scanner |
| Memory description | Expandable flash 4 GB data storage<br>Integrated RAM 10 kB system memory<br>Integrated RAM 24 MB program<br>Integrated RAM 4096 kB data |
| Application structure | 1 cyclic/periodic master task<br>1 periodic fast task<br>128 event tasks<br>2 auxiliary tasks |
| Number of instructions per ms | 40 Kinst/ms 100 % Boolean<br>60 Kinst/ms 65 % Boolean + 35 % fixed arithmetic |
| Current consumption | 295 mA 24 V DC |
| MTBF reliability | 600000 H |
| Marking | CE |

| | |
|---|---|
| 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)<br>1 LED green I/O values overrided by user (FORCED IO) |
| Product weight | 0.849 kg |

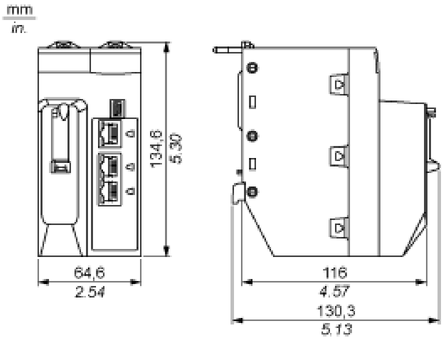
## Environment

| | |
|---|---|
| Ambient air temperature for operation | 0...60 °C |
| Ambient air temperature for storage | -40...85 °C |
| Operating altitude | 0...2000 m |
| Relative humidity | 5...95 % |
| IP degree of protection | IP20 |
| Standards | CSA C22.2 No 142<br>EN/IEC 61131-2<br>UL 508<br>LWD 2006/95/EC<br>EMC 2004/108/EC<br>CSA C22.2 No 213 Class I Division 2<br>EN/IEC 60079-0<br>EN/IEC 60079-31<br>EN/IEC 60079-15 |
| Product certifications | GOST<br>RCM<br>WEEE directive 2002/96/EC<br>Merchant Navy<br>EAC<br>REACH directive 1907/2006/EC<br>RoHS directive 2011/65/EU<br>ATEX II 3 Gas & Dust zone 2/22 |

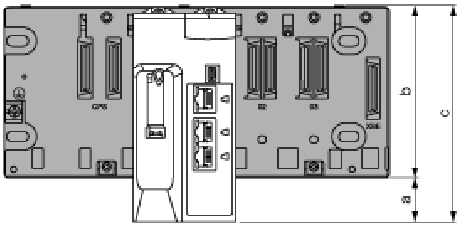
# Product data sheet
## Dimensions Drawings

# BMEP585040

## CPU MODULE ONLY

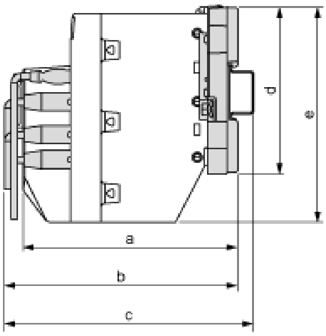


## Modules Mounted on Racks



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.)