# BMEP581020
## processor module M580 - Level 1 - Distributed

Green Premium™

## Main

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

## Complementary

| | |
|---|---|
| Number of racks | 4 |
| Local I/O processor capacity (discrete) | 1024 I/O |
| Local I/O processor capacity (analog) | 256 I/O |
| Number of application specific channel (local rack) | 36 |
| Application specific I/O | Accurate time stamping<br>Motion control<br>Counter<br>HART<br>SSI encoder<br>Serial link |
| 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 | 64 |
| Communication module processor capacity | 2 Ethernet communication module<br>8 AS-Interface module |
| Communication service | DIO scanner |
| Memory description | Integrated RAM, 4 MB for program<br>Integrated RAM, 384 kB for data<br>Expandable flash, 4 GB for data storage<br>Integrated RAM, 10 kB for system memory |
| Application structure | 1 periodic fast task<br>2 auxiliary tasks<br>1 cyclic/periodic master task<br>64 event tasks |
| Number of instructions per ms | 7.5 Kinst/ms 65 % Boolean + 35 % fixed arithmetic |

May 12, 2020

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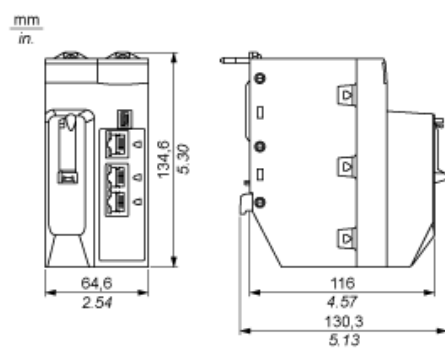| | 10 Kinst/ms 100 % Boolean |
|---|---|
| Current consumption | 270 mA at 24 V DC |
| MTBF reliability | 600000 H |
| Marking | CE |

## Environment

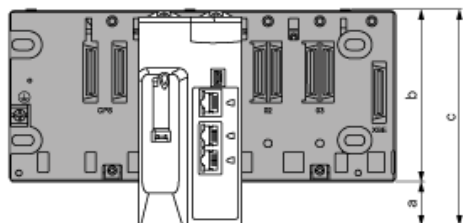| | |
|---|---|
| Vibration resistance | 3 gn |
| Shock resistance | 30 gn |
| Ambient air temperature for operation | 0…60 °C |
| Ambient air temperature for storage | -40…85 °C |
| Operating altitude | 0...2000 m<br>2000...5000 m with derating factor |
| Relative humidity | 5…95 % at 55 °C without condensation |
| IP degree of protection | IP20 |
| Directives | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility<br>2012/19/EU - WEEE directive |
| 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 |

## 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)<br>EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration |
| 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 |

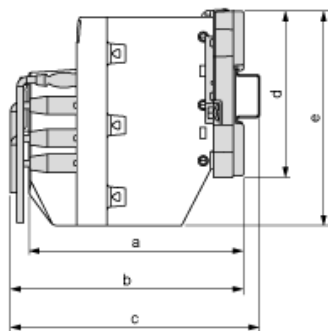Life Is On | Schneider Electric

## 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 va

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.)

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## 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.)