

# Product datasheet

Specifications



## Redundant processor module, Modicon M580, HSBY Level 6, Remote

BMEH586040

### Main

|                           |                            |
|---------------------------|----------------------------|
| Range Of Product          | Modicon M580               |
| Product Or Component Type | Redundant processor module |

### Complementary

|   |   |
|---|---|
| Number Of Racks                         | 1   |
| Application Specific I/O                | Counter<br>SSI encoder<br>Serial link<br>HART<br>Accurate time stamping<br>Motion control   |
| 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<br>1 Ethernet for HSBY port   |
| Number Of Remote I/O Station            | 31 - 2 rack(s) per X80 and Quantum drops  |
| Number Of Distributed Equipment         | 64  |
| Communication Module Processor Capacity | 6 Ethernet communication module<br>24 AS-Interface module   |
| Communication Service                   | DIO scanner<br>RIO scanner  |
| Memory Description                      | Expandable flash, 4 GB for data storage<br>Integrated RAM, 10 kB for system memory<br>Integrated RAM, 64 MB for program and data<br>Integrated RAM, 4096 kB for HSBY data   |
| Application Structure                   | 1 cyclic/periodic master task<br>1 periodic fast task   |
| Cybersecurity                           | Achilles certified<br>DoS prevention<br>IPSec<br>SNMP logging<br>Syslog protocol support<br>Transport layer security<br>Audit trail<br>Embedded firewall<br>Firmware signature<br>Password protection<br>Port hardening<br>Secure communication (HTTPS)<br>Security log |
| Number Of Instructions Per Ms           | 40 Kinst/ms 100 % Boolean<br>60 Kinst/ms 65 % Boolean + 35 % fixed arithmetic   |

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

Disclaimer: 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

|                     |                   |
|---------------------|-------------------|
| Current Consumption | 365 mA at 24 V DC |
| Mtbf Reliability    | 650000 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                             | IEC 61131-2<br>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)<br>1 LED (green) peer processor running (REMOTE RUN)<br>1 LED (green) processor ID set to A (A)<br>1 LED (green) processor ID set to B (B)<br>1 LED (green) processor acting as Primary (PRIM)<br>1 LED (green) processor acting as Standby (STBY)<br>1 LED (green) I/O values overridden by user (FORCED IO)<br>1 LED (green) Hot standby link status (Hsby Diag) |
| Net Weight                            | 0.849 kg   |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type Of Package 1       | PCE       |
| Number Of Units In Package 1 | 1         |
| Package 1 Height             | 8.700 cm  |
| Package 1 Width              | 17.700 cm |
| Package 1 Length             | 25.000 cm |
| Package 1 Weight             | 878.000 g |
| Unit Type Of Package 2       | S03       |

|                              |           |
|------------------------------|-----------|
| Number Of Units In Package 2 | 6         |
| Package 2 Height             | 30.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 5.631 kg  |

Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.



[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)



Transparency   RoHS/REACH

Well-being performance

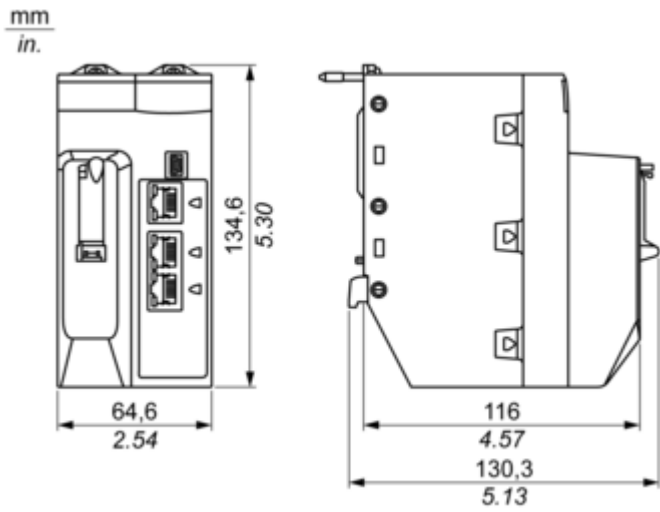
|  |     |
|--|-----|
|  Mercury Free               |     |
|  RoHS Exemption Information | Yes |

Certifications & Standards

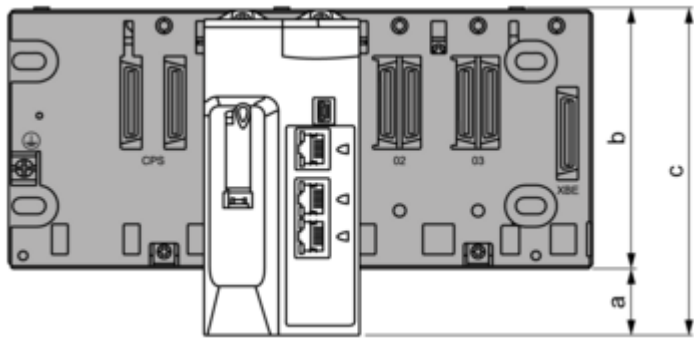
|                          |   |
|--------------------------|---|
| Reach Regulation         | <a href="#">REACH Declaration</a>   |
| Eu Rohs Directive        | Pro-active compliance (Product out of EU RoHS legal scope)  |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a>  |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>   |
| Weee                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile      | <a href="#">End of Life Information</a>   |

Dimensions Drawings

CPU Module Only



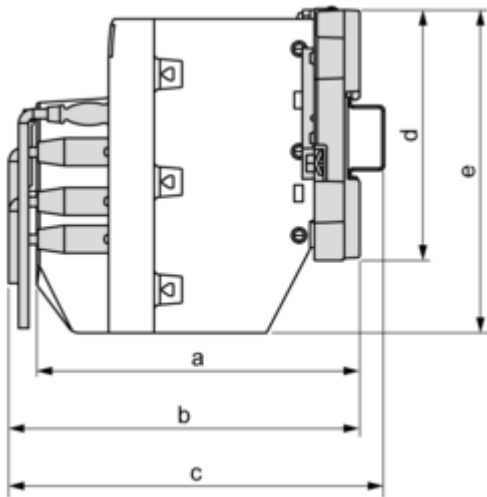
Modules Mounted on Racks



- 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

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- 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.)