

# Product data sheet

Specifications



## standalone safety coprocessor, Modicon M580, SIL3

BMEP58CPROS3

**Product availability: Stock - Normally stocked in distribution facility**

### Main

Range of Product	Modicon M580
Product or Component Type	Processor module

### Complementary

Current consumption	295 mA 24 V DC
MTBF reliability	946000 H
Marking	CE

### Environment

Vibration resistance	3 gn
Shock resistance	15 gn
Ambient Air Temperature for Operation	-13...140 °F (-25...60 °C)
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Operating altitude	0...6561.68 ft (0...2000 m) 2000...5000 m with derating factor
Relative humidity	5...95 % 131 °F (55 °C) without condensation
IP Degree of Protection	IP20
Directives	2014/30/EU - electromagnetic compatibility 2006/42/EC - machinery 2014/34/EU - ATEX directive
Product certifications	CE UL CSA RCM EAC Merchant Navy ATEX zone 2/22 IECEx zone 2/22 TÜV
Standards	EN/IEC 61131-2 EN/IEC 61010-2-201 UL 61010-2-201 CSA C22.2 No 61010-2-201 IACS E10 EN/IEC 61000-6-5, interface type 1 and type 2 EN/IEC 61850-3, location G EN/IEC 60079-0

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>Environmental characteristic</b>	Hazardous location class I division 2 Gas resistant class Gx ISA S71.04 Gas resistant class 3C4 IEC 60721-3-3 Dust resistant class 3S4 IEC 60721-3-3 Sand resistant class 3S4 IEC 60721-3-3 Salt resistant level 2 IEC 68252 Mold growth resistant class 3B2 IEC 60721-3-3 Fungal spore resistant class 3B2 IEC 60721-3-3
<b>Protective treatment</b>	Conformal coating
<b>Safety level</b>	SIL 3 PL = e
<b>Supply</b>	Internal power supply via rack
<b>Status LED</b>	1 LED (Green) processor running (RUN) 1 LED (Red) processor or system fault (ERR) 1 LED (Green) download in progress (DL) 1 LED (Green) processor in safety mode (SRUN) 1 LED (Green) processor in maintenance mode (SMOD)
<b>Net Weight</b>	1.872 lb(US) (0.849 kg)

## Ordering and shipping details

<b>Category</b>	US1PC3418161
<b>Discount Schedule</b>	PC34
<b>GTIN</b>	3606489486488
<b>Returnability</b>	Yes
<b>Country of origin</b>	FR

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	3.425 in (8.700 cm)
<b>Package 1 Width</b>	7.047 in (17.900 cm)
<b>Package 1 Length</b>	9.921 in (25.200 cm)
<b>Package weight(Lbs)</b>	29.735 oz (843.000 g)
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	6
<b>Package 2 Height</b>	11.811 in (30.000 cm)
<b>Package 2 Width</b>	11.811 in (30.000 cm)
<b>Package 2 Length</b>	15.748 in (40.000 cm)
<b>Package 2 Weight</b>	12.020 lb(US) (5.452 kg)

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle) 242

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic Yes

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

SCIP Number 4eb70ab0-978b-4773-a441-0cc20d6144a1

REACH Regulation [REACH Declaration](#)

California proposition 65 **WARNING:** This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Use Again

### Repack and remanufacture

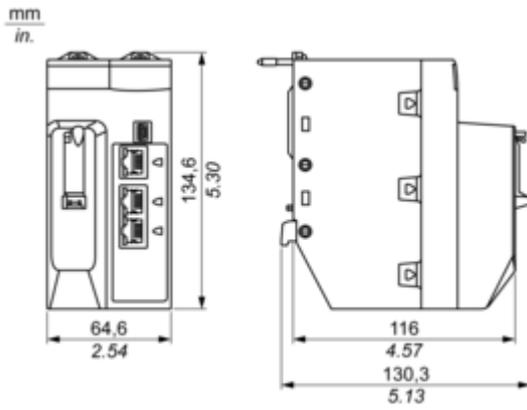
Circularity Profile [End of Life Information](#)

Take-back No

Dimensions Drawings

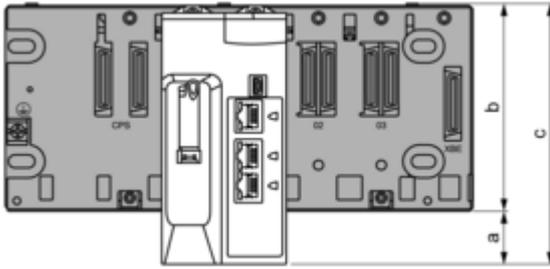
CPU Module Only

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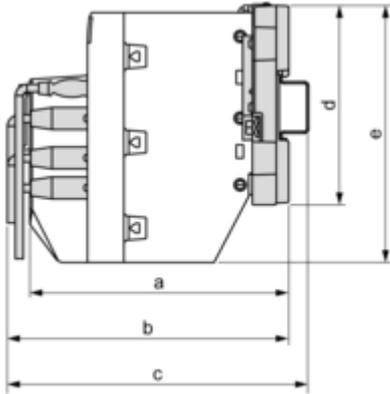
**Modules Mounted on Racks**

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- 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.)

Image of product / Alternate images

Alternative

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