



Main

Range of product	Modicon M580
Product or component type	Processor module
Product specific application	For severe environments
Supply	Internal power supply via rack

Complementary

Number of racks	4
Local I/O processor capacity (discrete)	2048 I/O
Local I/O processor capacity (analog)	512 I/O
Number of application specific channel (local rack)	72
Application specific I/O	Accurate time stamping Counter Serial link Motion control HART SSI encoder
Checks	Process control
Control channels	Programmable loops
Integrated connection type	1 Ethernet TCP/IP service port 2 Ethernet TCP/IP device network USB type mini B
Number of distributed equipment	128
Communication module processor	2 Ethernet communication module 8 AS-Interface module
Communication service	DIO scanner
Memory description	Expandable flash 4 GB data storage Integrated RAM 10 kB system memory Integrated RAM 8 MB program Integrated RAM 768 kB data
Application structure	1 cyclic/periodic master task 1 periodic fast task 64 event tasks 2 auxiliary tasks
Number of instructions per ms	7.5 Kinst/ms 65 % Boolean + 35 % fixed arithmetic 10 Kinst/ms 100 % Boolean
Current consumption	270 mA 24 V DC
MTBF reliability	600000 H
Marking	CE

Status LED	1 LED green processor running (RUN) 1 LED red processor or system fault (ERR) 1 LED red I/O module fault (I/O) 1 LED green download in progress (DL) 1 LED red memory card or CPU flash fault (BACKUP) 1 LED green/red ETH MS (Ethernet port configuration status) 1 LED green/red Eth NS (Ethernet network status)
Product weight	0.849 kg

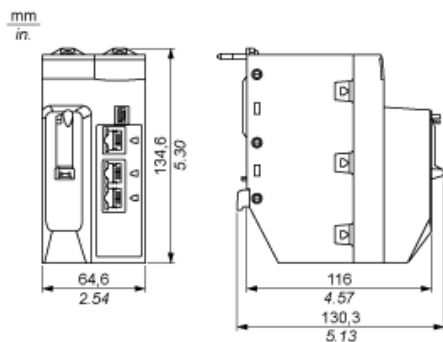
Environment

Ambient air temperature for operation	-25...70 °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 EN/IEC 61131-2 UL 508 LWD 2006/95/EC EMC 2004/108/EC CSA C22.2 No 213 Class I Division 2 EN/IEC 60079-0 EN/IEC 60079-31 EN/IEC 60079-15
Product certifications	GOST RCM WEEE directive 2002/96/EC Merchant Navy EAC REACH directive 1907/2006/EC RoHS directive 2011/65/EU ATEX II 3 Gas & Dust zone 2/22

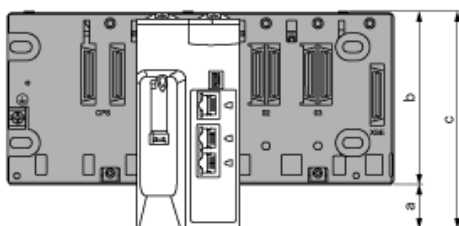
Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1342 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Need no specific recycling operations

CPU MODULE ONLY

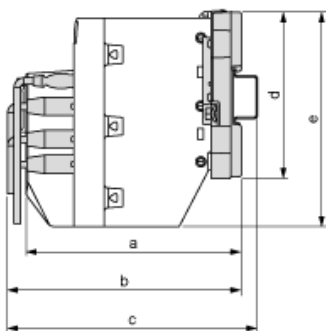


Modules Mounted on Racks



- 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.)