Product data sheet Characteristics

BMEP582040S

Standalone Safety processor, Modicon M580, 8MB, 61 Ethernet devices, 8 Remote I/O racks, 16 CIP Safety devices





Main

IVIAIII	
Range of Product	Modicon M580
Product or Component Type	Processor module
Impregnation material	Conformal coated

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	Counter Motion control SSI encoder Accurate time stamping Serial link HART
Checks	Process control Safety 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 remote I/O station	8 - 2 remote drop
Number of distributed equipment	64
Number of CIP safety IO devices	16
Communication module processor capacity	Ethernet communication module AS-Interface module
Communication Service	DIO scanner RIO scanner
Memory description	Expandable flash, 4 GB data storage Integrated RAM, 10 kB system memory Integrated RAM, 8 MB program process Integrated RAM, 768 kB data process Integrated RAM, 2 MB program safety Integrated RAM, 512 kB data safety
Application structure	128 event tasks 2 auxiliary tasks 1 cyclic/periodic master task 1 periodic fast task 1 periodic safe task
Number of instructions per ms	7.5 Kinst/ms 65 % Boolean + 35 % fixed arithmetic 10 Kinst/ms 100 % Boolean
Current consumption	295 mA 24 V DC
MTBF reliability	767500 H
Marking	CE

Environment

3 gn
15 gn
-13140 °F (-2560 °C)
-40185 °F (-4085 °C)
06561.68 ft (02000 m) 20005000 m with derating factor
595 % 131 °F (55 °C) without condensation
IP20
2014/30/EU - electromagnetic compatibility 2006/42/EC - machinery 2014/34/EU - ATEX directive
CE UL CSA RCM EAC Merchant Navy ATEX zone 2/22 IECEx zone 2/22 TÜV
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 EN/IEC 61850-3 EN/IEC 60079-0
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
Conformal coating
SIL 3 IEC 61508 SIL 3 IEC 61511 SILCL 3 IEC 62061 SILCL 3 ISO 13849-1 category 4 SIL 4 EN 50126 SIL 4 EN 50128 SIL 4 EN 50129
Internal power supply via rack
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) 1 LED (Green) processor in safety mode (SRUN) 1 LED (Green) processor in maintenance mode (SMOD) 1 LED (Red) I/O values overrided by user (FORCED IO)
1.87 lb(US) (0.849 kg)

Ordering and shipping details

Category	18161-MODICON M580 CONTROLLERS HSBY
Discount Schedule	PC34
GTIN	3606489705480
Nbr. of units in pkg.	1
Package weight(Lbs)	31.08 oz (881 g)
Returnability	Yes
Country of origin	FR

Packing Units

5	
Unit Type of Package 1	PCE
Package 1 Height	3.50 in (8.9 cm)
Package 1 width	7.09 in (18 cm)
Package 1 Length	9.84 in (25 cm)
Unit Type of Package 2	S03
Number of Units in Package 2	6
Package 2 Weight	12.65 lb(US) (5.737 kg)
Package 2 Height	11.81 in (30 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

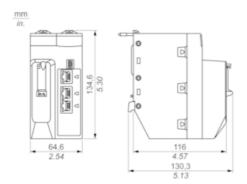
Offer Sustainability

Sustainable offer status	Green Premium product
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
REACh Regulation	☑REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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.

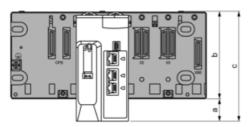
Product data sheet Dimensions Drawings

BMEP582040S

CPU Module Only



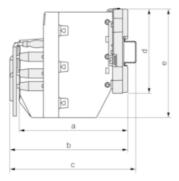
Modules Mounted on Racks



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.)