Product datasheet Characteristics

BMEP584040S

Processor module M580 Safety SIL3 - Level 4 - Remote





Main

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Range of product	Modicon M580	\$
Product or component type	Processor module	<u>{</u>

Complementary

Complementary		
Number of racks	8	
Local I/O processor capacity (discrete)	4096 I/O	
Local I/O processor capacity (analog)	1024 I/O	
Number of application specific channel (local rack)	144	
Application specific I/O	Counter Motion control SSI encoder Accurate time stamping Serial link HART	i boo
Checks	Safety control Process control	
Control channels	Programmable loops	— ;
Integrated connection type	1 Ethernet TCP/IP for service port 2 Ethernet TCP/IP for device network USB type mini B	
Number of remote I/O station	16 - 2 rack(s) per remote drop	7
Number of distributed equipment	64	
Number of CIP safety IO devices	64	!
Communication module processor capacity	8 AS-Interface module 4 Ethernet communication module	
Communication service	RIO scanner DIO scanner	
Memory description	Expandable flash, 4 GB for data storage Integrated RAM, 10 kB for system memory Integrated RAM, 16 MB for program process Integrated RAM, 2048 kB for data process	licoloimac. This documentation is not intended as

	Integrated RAM, 4 MB for program safety Integrated RAM, 1024 kB for data safety	
Application structure	2 auxiliary tasks 1 periodic safe task 128 event tasks 1 periodic fast task 1 cyclic/periodic master task	
Number of instructions per ms	30 Kinst/ms 65 % Boolean + 35 % fixed arithmetic 40 Kinst/ms 100 % Boolean	
Current consumption	295 mA at 24 V DC	
MTBF reliability	763800 H	
Marking	CE	

Environment

Environment	
Vibration resistance	3 gn
Shock resistance	15 gn
Ambient air temperature for operation	-2560 °C
Ambient air temperature for storage	-4085 °C
Operating altitude	02000 m 20005000 m with derating factor
Relative humidity	595 % at 55 °C without condensation
IP degree of protection	IP20
Standards	EN/IEC 61131-2 EN/IEC 61000-6-5 CSA C22.2 No 61010-2-201 IEC 61850-3 UL 61010-2-201
Protective treatment	Conformal coating
Environmental characteristic	Gas resistant class Gx Gas resistant class 3C4 Dust resistant class 3S4 Sand resistant class 3S4 Salt resistant level 2 Mold growth resistant class 3B2 Fungal spore resistant class 3B2
Product certifications	TÜV CE UL RCM CSA Merchant Navy EAC
Safety level	SIL 3 PL = e
Supply	Internal power supply via rack
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 (green)download in progress (DL): 1 LED (green)red)ETH MS (Ethernet port configuration status): 1 LED (green/red)ETH MS (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):
Product weight	0.849 kg

Offer Sustainability

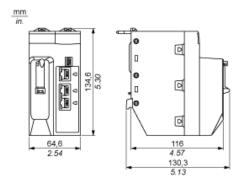
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes

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
Contractual warranty	
Warranty	18 months

Product datasheet Dimensions Drawings

BMEP584040S

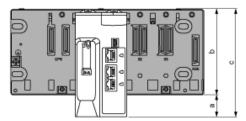
CPU Module Only



Product datasheet Dimensions Drawings

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Modules Mounted on Racks

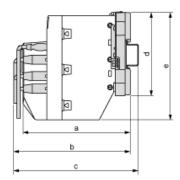


- a: additional space below the rack to accommodate the height of the CPU. For an X Bus rack, the value is 30.9 mm (1.217 in.); for an Ethernet rack, the height of the rack. For an X Bus rack, the height is 103.7 mm (4.083 in.); for an Ethernet rack, the height is 105.11 mm (4.138 in.).
- c: the height of the main local rack, 134.6 mm (5.299 in.)

Product datasheet **Dimensions Drawings**

BMEP584040S

Modules and Cables Mounted in an Enclosure



enclosure depth: 135 mm (5.315 in.) a:

b:

wiring + module depth: > 146 mm (5.748 in.) wiring + module + DIN rail depth: > 156 mm (6.142 in.) C:

d: rack height: for an X Bus rack 103.7 mm (4.083 in.); for an Ethernet rack, 105.11 mm (4.138 in.)

module height: 134.6 mm (5.299 in.) e: