

Schneider BME Series Service Manual

BMEH584040

1. Description

redundant processor, Modicon M580, 16MB, 61 Ethernet devices, 16 remote IO racks of X80 and Quantum IO [TAA]

3. Product Information

redundant processor, Modicon M580, 16MB, 61 Ethernet devices, 16 remote IO racks of X80 and Quantum IO [TAA]

BMEH584040

Main

Range of Product

Modicon M580

Product or Component Type

Redundant processor module

Complementary

Number of racks

1

Application specific I/O

HART

SSI encoder

Serial link

Motion control

Accurate time stamping

Counter

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

1 Ethernet HSBY port

Number of remote I/O station

16 - 2 X80 and Quantum drops

Number of distributed equipment

64

Communication module processor capacity

8 AS-Interface module

16 Ethernet communication module

Communication Service

RIO scanner

DIO scanner

Memory description

Expandable flash, 4 GB data storage

Integrated RAM, 10 kB system memory

Integrated RAM, 16 MB program

Integrated RAM, 2048 kB data

Application structure

1 cyclic/periodic master task

1 periodic fast task

Cybersecurity

Achilles certified

DoS prevention

IPSec

SNMP logging

Syslog protocol support

Transport layer security

Audit trail

Embedded firewall

Firmware signature

Password protection

Port hardening

Secure communication (HTTPS)

Security log

Number of instructions per ms

30 Kinst/ms 65 % Boolean + 35 % fixed arithmetic

40 Kinst/ms 100 % Boolean

Current consumption

360 mA 24 V DC

MTBF reliability

650000 H

Marking

CE

Environment

Vibration resistance

3 gn

Shock resistance

30 gn

Ambient Air Temperature for Operation

32...140 °F (0...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

2014/35/EU - low voltage directive

2014/30/EU - electromagnetic compatibility

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 (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) peer processor running (REMOTE RUN)

1 LED (Green) processor ID set to A (A)

1 LED (Green) processor ID set to B (B)

1 LED (Green) processor acting as Primary (PRIM)

1 LED (Green) processor acting as Standby (STBY)

1 LED (Green) I/O values overridden by user (FORCED IO)

1 LED (Green) Hot standby link status (Hsby Diag)

Net Weight

1.872 lb(US) (0.849 kg)

Ordering and shipping details

Category

US1PC3418161

Discount Schedule

PC34

GTIN

3606485439990

Returnability

Yes

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

3.58 in (9.100 cm)

Package 1 Width

7.09 in (18.000 cm)

Package 1 Length

10.16 in (25.800 cm)

Package weight(Lbs)

31.182 oz (884.000 g)

Unit Type of Package 2

S03

Number of Units in Package 2

6

Package 2 Height

11.81 in (30.000 cm)

Package 2 Width

11.81 in (30.000 cm)

Package 2 Length

15.75 in (40.000 cm)

Package 2 Weight

12.721 lb(US) (5.770 kg)