

Schneider BME Series Service Manual

BMEH582040C

1. Description

BMEH582040C Main

3. Product Information

BMEH582040C Main

Range of product

Modicon M580

Product or component type

Redundant processor module

Impregnation material

Conformal coated

Complementary

Number of racks

1

Application specific I/O

Serial link

HART

Counter

Motion control

Accurate time stamping

SSI encoder

Checks

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

1 Ethernet for HSBY port

Number of remote I/O station

8 - 2 rack(s) per X80 remote drop

Number of distributed equipment

64

Communication module processor capacity

2 Ethernet communication module

16 AS-Interface 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, 8 MB for program

Integrated RAM, 768 kB for data

Application structure

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

270 mA at 24 V DC

MTBF reliability

650000 H

Marking

CE

Environment

Vibration resistance

3 gn

Shock resistance

30 gn

Ambient air temperature for operation

-25...60 °C

Ambient air temperature for storage

-40...85 °C

Operating altitude

0...2000 m

2000...5000 m with derating factor

Relative humidity

5...95 % at 55 °C without condensation

IP degree of protection

IP20

Directives

2014/35/EU - low voltage directive

2014/30/EU - electromagnetic compatibility

2014/34/EU - ATEX directive

Product certifications

CE

UL

CSA

RCM

EAC

Merchant Navy

ATEX zone 2/22

IECEx zone 2/22

Standards

IEC 61131-2

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

IEC 60079-0

Environmental characteristic

Gas resistant class Gx conforming to ISA S71.04

Gas resistant class 3C4 conforming to IEC 60721-3-3

Dust resistant class 3S4 conforming to IEC 60721-3-3

Sand resistant class 3S4 conforming to IEC 60721-3-3

Salt resistant level 2 conforming to IEC 68252

Mold growth resistant class 3B2 conforming to IEC 60721-3-3

Fungal spore resistant class 3B2 conforming to IEC 60721-3-3

Hazardous location class I division 2

Protective treatment

Conformal coating

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

0.849 kg

Packing Units

Unit Type of Package 1

PCE

Number of Units in Package 1

1

Package 1 Height

8.900 cm

Package 1 Width

18.000 cm

Package 1 Length

25.000 cm

Package 1 Weight

886.000 g

Unit Type of Package 2

S03

Number of Units in Package 2

6

Package 2 Height

30.000 cm

Package 2 Width

30.000 cm

Package 2 Length

40.000 cm

Package 2 Weight

5.820 kg