

Schneider BME Series Service Manual

BMEP582040H

1. Description

BMEP582040H Main

3. Product Information

BMEP582040H Main
 Range of Product
 Modicon M580
 Product or Component Type
 Processor module
 Product Specific Application
 For severe environments
 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
 HART
 SSI encoder
 Accurate time stamping
 Motion control
 Serial link
 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 remote I/O station
 8 - 2 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 data storage
 Integrated RAM, 10 kB system memory
 Integrated RAM, 8 MB program
 Integrated RAM, 768 kB data
 Application structure
 1 periodic fast task
 64 event tasks
 1 cyclic/periodic master task
 2 auxiliary tasks
 Number of instructions per ms
 30 Kinst/ms 65 % Boolean + 35 % fixed arithmetic
 40 Kinst/ms 100 % Boolean
 Current consumption
 270 mA 24 V DC
 MTBF reliability
 775000 H
 Marking

CE

Environment

Vibration resistance

3 gn

Shock resistance

30 gn

Ambient air temperature for operation

-13...158 °F (-25...70 °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

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 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

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)

Net Weight

1.872 lb(US) (0.849 kg)

Ordering and shipping details

Category

US1PC3418161

Discount Schedule

PC34

GTIN

3595864174495

Returnability

No

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

3.54 in (9.000 cm)

Package 1 Width

7.09 in (18.000 cm)

Package 1 Length

10.04 in (25.500 cm)

Package weight(Lbs)

31.076 oz (881.000 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

12.566 lb(US) (5.700 kg)