

Schneider BME Series Service Manual

BMEP585040C

1. Description

BMEP585040C Main

3. Product Information

BMEP585040C Main
Range of Product
Modicon M580
Product or Component Type
Processor module
Impregnation material
Conformal coated
Complementary
Number of racks
8
Local I/O processor capacity (discrete)
5120 I/O
Local I/O processor capacity (analog)
1280 I/O
Number of application specific channel (local rack)
180
Application specific I/O
Accurate time stamping
Motion control
Serial link
HART
SSI encoder
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
Number of remote I/O station
31 - 2 remote drop
Number of distributed equipment
64
Communication module processor capacity
16 AS-Interface module
6 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, 24 MB program
Integrated RAM, 4096 kB data
Application structure
1 periodic fast task
2 auxiliary tasks
128 event tasks
1 cyclic/periodic master task
Number of instructions per ms
40 Kinst/ms 65 % Boolean + 35 % fixed arithmetic
50 Kinst/ms 100 % Boolean
Current consumption
300 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...140 °F (-25...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

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)

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

Net Weight

1.872 lb(US) (0.849 kg)

Ordering and shipping details

Category

US1PC3418161

Discount Schedule

PC34

GTIN

3606485440040

Returnability

No

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

3.35 in (8.500 cm)

Package 1 Width

6.89 in (17.500 cm)

Package 1 Length

9.84 in (25.000 cm)

Package weight(Lbs)

31.041 oz (880.000 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

12.632 lb(US) (5.730 kg)