

Schneider BME Series Service Manual

BMEP58CPROS3

1. Description

standalone safety coprocessor, Modicon M580, SIL3

3. Product Information

standalone safety coprocessor, Modicon M580, SIL3

BMEP58CPROS3

Main

Range of product

Modicon M580

Product or component type

Processor module

Complementary

Current consumption

295 mA at 24 V DC

MTBF reliability

946000 H

Marking

CE

Environment

Vibration resistance

3 gn

Shock resistance

15 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

2014/30/EU - electromagnetic compatibility

2006/42/EC - machinery

2014/34/EU - ATEX directive

Product certifications

CE

UL

CSA

RCM

EAC

Merchant Navy

ATEX zone 2/22

IECEx zone 2/22

TÜV

Standards

EN/IEC 61131-2

EN/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

EN/IEC 60079-0

Environmental characteristic

Hazardous location class I division 2

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

Protective treatment

Conformal coating

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 (green) download in progress (DL)

1 LED (green) processor in safety mode (SRUN)

1 LED (green) processor in maintenance mode (SMOD)

Net weight

0.849 kg

Packing Units

Unit Type of Package 1

PCE

Number of Units in Package 1

1

Package 1 Height

8.700 cm

Package 1 Width

17.900 cm

Package 1 Length

25.200 cm

Package 1 Weight

843.000 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

5.452 kg