

Schneider BME Series Service Manual

BMXCPS4002S

1. Description

redundant power supply module, Modicon X80, 100 to 240V AC, safety

3. Product Information

redundant power supply module, Modicon X80, 100 to 240V AC, safety

BMXCPS4002S

Main

Range of Product

Modicon X80

Product or Component Type

Power supply module

backplane compatibility

All backplane

advanced diagnostics available via network

Redundancy information

Redundancy test

Temperature sensing

Remaining lifetime

Uptime duration

Primary Voltage

100...240 V

Supply circuit type

AC

Secondary power

15 W 3.3 V DC -13...140 °F (-25...60 °C) I/O module logic power supply

40 W 24 V DC -13...140 °F (-25...60 °C) I/O module power supply and processor if 3.3 V not loaded

Complementary

Primary voltage limit

85...264 V

Network Frequency

50/60 Hz

Network frequency limits

47...63 Hz

Apparent power

0.13 kVA

Input current

0.55 A 230 V

1.1 A 115 V

Inrush current

30 A 115 V

60 A 230 V

I²t on activation

1 A².s 115 V

4 A².s 230 V

It on activation

0.1 A.s 115 V

0.15 A.s 230 V

MTBF reliability

792000 H

Protection type

Internal fuse not accessible primary circuit

Overload protection secondary circuit

Overvoltage protection secondary circuit

Short-circuit protection secondary circuit

Current at secondary voltage

4.5 A 3.3 V DC I/O module logic power supply

1.67 A 24 V DC I/O module power supply and processor

Maximum power dissipation in W

8.5 W

Status LED

1 LED (Green) presence of voltages (OK)

1 LED (Green) redundancy OK

1 LED (Green) power supply status

Control Type

RESET push-button cold restart

Electrical connection

1 connector 2 alarm relay

1 connector 5 line supply, protective earth

Insulation resistance

>= 100 MOhm primary/ground

>= 100 MOhm primary/secondary

Net Weight

1.12 lb(US) (0.51 kg)

Environment

Immunity to microbreaks

10 ms

Dielectric strength

1500 V primary/secondary I/O module logic power supply

1500 V primary/secondary I/O module power supply and processor

2300 V primary/secondary sensor power supply

1500 V primary/ground

500 V 24 V sensor output/ground

Vibration resistance

3 gn

Shock resistance

15 gn

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 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

Ambient Air Temperature for Storage

-40...185 °F (-40...85 °C)

Ambient air temperature for operation
-13...140 °F (-25...60 °C)
Relative humidity
5...95 % 131 °F (55 °C) without condensation
Protective treatment
Conformal coating
Operating altitude
0...6561.68 ft (0...2000 m)
2000...5000 m with derating factor
Ordering and shipping details
Category
US1PC3418161
Discount Schedule
PC34
GTIN
3606481204950
Returnability
Yes
Country of origin
ID
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
9.84 in (25.000 cm)
Package weight(Lbs)
21.799 oz (618.000 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
9.914 lb(US) (4.497 kg)