

# Product datasheet

Specifications



## redundant power supply module X80 - 24..48 V DC -for severe environments

BMXCPS4022H

EAN Code: 3606481179081

### Main

Range of product	Modicon X80
Product or component type	Power supply module
backplane compatibility	All backplane
Product specific application	For severe environments
advanced diagnostics available via network	Temperature sensing Uptime duration Redundancy test Remaining lifetime Redundancy information
Primary voltage	24...48 V
Supply circuit type	DC
Secondary power	18 W 3.3 V DC at -25...70 °C I/O module logic power supply 40 W 24 V DC at -25...70 °C I/O module power supply and processor if 3.3 V not loaded

### Complementary

Primary voltage limit	18...62.4 V
Input current	1.9 A 24 V 1 A 48 V
Inrush current	60 A 48 V 60 A 24 V
I <sup>2</sup> t on activation	1 A <sup>2</sup> .s 24 V 3 A <sup>2</sup> .s 48 V
It on activation	0.3 A.s 24 V 0.4 A.s 48 V
MTBF reliability	752000 H
Protection type	Internal fuse not accessible for primary circuit Overload protection for secondary circuit Overvoltage protection for secondary circuit Short-circuit protection for secondary circuit
Current at secondary voltage	5.5 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 pin(s) alarm relay 1 connector 5 pin(s) line supply, protective earth

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

<b>Maximum cable distance between devices</b>	10 m
	15 m
<b>Insulation resistance</b>	>= 100 MOhm primary/ground >= 100 MOhm primary/secondary
<b>Net weight</b>	0.81 kg

## Environment

<b>Immunity to microbreaks</b>	1 ms
<b>Dielectric strength</b>	1500 V primary/ground 1500 V primary/secondary
<b>IP degree of protection</b>	IP20
<b>Directives</b>	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility 2014/34/EU - ATEX directive
<b>Product certifications</b>	CE UL CSA RCM EAC Merchant Navy ATEX zone 2/22 IECEx zone 2/22
<b>Standards</b>	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
<b>Environmental characteristic</b>	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
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Relative humidity</b>	10...95 % without condensation
<b>Protective treatment</b>	Conformal coating

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	9.000 cm
<b>Package 1 Width</b>	17.800 cm
<b>Package 1 Length</b>	25.000 cm
<b>Package 1 Weight</b>	675.000 g
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	6
<b>Package 2 Height</b>	30.000 cm
<b>Package 2 Width</b>	30.000 cm

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Package 2 Length	40.000 cm
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Package 2 Weight	4.712 kg
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## Logistical informations

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Country of origin	ID
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## Contractual warranty

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Warranty (in months)	18
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Total lifecycle Carbon footprint 495

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard Yes

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

SCIP Number 41745a42-b2d7-4938-80f8-0738cea8ed1d

REACH Regulation [REACH Declaration](#)

## Use Again

### Repack and remanufacture

End of life manual availability [End of Life Information](#)

Take-back No

Image of product / Alternate images

Alternative

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