

# Product data sheet

Specifications



redundant power supply module,  
Modicon X80, 24 to 48V DC, for  
severe environment

BMXCPS4022H

## 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
I²t on activation	1 A².s 24 V 3 A².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

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

## Environment

Immunity to microbreaks	1 ms
Dielectric strength	1500 V primary/ground
	1500 V primary/secondary
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
Standards	IECEx zone 2/22
	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
Environmental characteristic	EN/IEC 61850-3, location G
	IEC 60079-0
	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
Ambient air temperature for storage	Mold growth resistant class 3B2 conforming to IEC 60721-3-3
	Fungal spore resistant class 3B2 conforming to IEC 60721-3-3
Ambient air temperature for operation	Hazardous location class I division 2
Relative humidity	-40...85 °C
protective treatment	-25...70 °C
	10...95 % without condensation
	Conformal coating

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9 cm
Package 1 Width	18 cm
Package 1 Length	25 cm
Package 1 Weight	640 g
Unit Type of Package 2	S03
Number of Units in Package 2	6
Package 2 Height	30 cm
Package 2 Width	30 cm

Package 2 Length	40 cm
Package 2 Weight	3.84 kg
Unit Type of Package 3	P06
Number of Units in Package 3	48
Package 3 Height	70 cm
Package 3 Width	60 cm
Package 3 Length	80 cm
Package 3 Weight	43.2 kg

# Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)

## Well-being performance

 Mercury Free	
 Rohs Exemption Information	<a href="#">Yes</a>
Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="#">www.P65Warnings.ca.gov</a>