

Product data sheet

Specifications



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 at -25...60 °C I/O module logic power supply 40 W 24 V DC at -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 for primary circuit Overload protection for secondary circuit Overvoltage protection for secondary circuit Short-circuit protection for 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

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

Electrical Connection	1 connector 2 pin(s)alarm relay 1 connector 5 pin(s)line supply, protective earth
Insulation Resistance	>= 100 MOhm primary/ground >= 100 MOhm primary/secondary
Net Weight	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 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
Ambient Air Temperature For Storage	-40...85 °C
Ambient Air Temperature For Operation	-25...60 °C
Relative Humidity	5...95 % at 55 °C without condensation
Protective Treatment	Conformal coating
Operating Altitude	0...2000 m 2000...5000 m with derating factor

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	18 cm
Package 1 Width	25 cm

Package 1 Length	9 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	4.4 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	48
Package 3 Height	60 cm
Package 3 Width	80 cm
Package 3 Length	70 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-CO₂ 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	Yes
Reach Regulation	REACH Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
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 www.P65Warnings.ca.gov