

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
Product 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	9.000 cm
Package 1 Width	17.800 cm
Package 1 Length	25.000 cm
Package 1 Weight	675.000 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	4.712 kg

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
Packaging without single use plastic	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
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

Use Again

Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No

Image of product / Alternate images

Alternative





