

BMXCPS4022H

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



Main

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|--|---|
| 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

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|--|---|
| 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 ² t on activation | 1 A ² .S 24 V 3 A ² .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 |
| Maximum cable distance between devices | 10 M 15 m |
| Insulation resistance | >= 100 MOhm primary/ground >= 100 MOhm primary/secondary |
| Net weight | 0.81 kg |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Environment

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|---------------------------------------|--|
| 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[RETURN]UL[RETURN]CSA[RETURN]RCM[RETURN]EAC[RETURN]Merchant Navy[RETURN]ATEX zone 2/22[RETURN]IECEx zone 2/22 |
| Standards | 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 |
| Environmental characteristic | 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 |
| Ambient air temperature for storage | -40...85 °C |
| Ambient air temperature for operation | -25...70 °C |
| Relative humidity | 10...95 % without condensation |
| Protective treatment | Conformal coating |

Packing Units

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|------------------------------|---------|
| 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 |

Offer Sustainability

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|----------------------------|---|
| REACH Regulation |  REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| Mercury free | Yes |
| China RoHS Regulation |  China RoHS Declaration |
| RoHS exemption information |  Yes |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |