



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 Redundancy information Redundancy test Uptime duration Remaining lifetime |
| Primary voltage | 125 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 | 100...150 V |
| Input current | 600 mA 125 V |
| Inrush current | 60 A 125 V |
| I ² t on activation | 2.5 A ² .s 125 V |
| It on activation | 0.09 A.s 125 V |
| MTBF reliability | 830000 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 | 1.67 A 24 V DC I/O module power supply and processor 5 A 3.3 V DC I/O module logic power supply |
| 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 |
| Insulation resistance | >= 100 MOhm primary/ground >= 100 MOhm primary/secondary |
| Net weight | 0.61 kg |

Environment

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|-------------------------|---|
| Immunity to microbreaks | 1 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 |
| IP degree of protection | IP20 |
| Directives | 2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility |
| Product certifications | CE[RETURN]JUL[RETURN]CSA[RETURN]RCM[RETURN]EAC[RETURN]Merchant Navy |

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|---------------------------------------|--|
| Standards | EN 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 |
| 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 | 9.0 cm |
| Package 1 Width | 18.0 cm |
| Package 1 Length | 25.0 cm |
| Package 1 Weight | 740.0 g |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 6 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 4.44 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 |