

Part no. XIOC-NET-DP-M
257908
EL Number 4519683
(Norway)

| General specifications | | |
|-------------------------------------|--|---|
| Product name | | Eaton XIOC Communication module |
| Part no. | | XIOC-NET-DP-M |
| EAN | | 4015082579081 |
| Product Length/Depth | | 100 millimetre |
| Product height | | 95 millimetre |
| Product width | | 30 millimetre |
| Product weight | | 0.145 kilogram |
| Certifications | | UL508 CSA Class No.: 2252-01 CSA-C22.2 No. 0-M CSA File No.: 012528 UL Category Control No.: NRAQ UL UL File No.: E135462 CSA-C22.2 No. 142-M CSA CE EN 50178 IEC/EN 61131-2 |
| Product Tradename | | XIOC |
| Product Type | | Communication module |
| Product Sub Type | | None |
| Features & Functions | | |
| Fitted with: | | Potential separation |
| Functions | | Master (Class 1) PROFIBUS-DP interface |
| General information | | |
| Current consumption | | 300 mA, Interfaces 300 mA (Ie), Interfaces |
| Degree of protection | | IP20 |
| Overvoltage category | | II |
| Pollution degree | | 2 |
| Protection class | | 1 |
| Repetition rate | | 1 s |
| Residual ripple | | ≤ 5 % |
| Resistance | | 500 g/∅ 50 mm ±25 g (impact resistance) |
| Type | | Communication module PROFIBUS-DP master module |
| Used with | | XC100/200 (expandable with up to 15 XI/OC modules) |
| Ambient conditions, mechanical | | |
| Shock resistance | | 15 g, Mechanical, Shock duration 11 ms |
| Vibration resistance | | 10 - 57 Hz, ± 0.075 mm 57 - 150 Hz ± 1.0 mm |
| Climatic environmental conditions | | |
| Ambient operating temperature - min | | 0 °C |
| Ambient operating temperature - max | | 55 °C |
| Ambient storage temperature - min | | -20 °C |
| Ambient storage temperature - max | | 70 °C |
| Electro magnetic compatibility | | |
| Emitted interference | | Class A (according to DIN/EN 55011/22) |
| Voltage dips | | 10 ms |
| Terminal capacities | | |

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| Terminals | | Optionally, screw terminals or spring-loaded terminals for digital/analog modules |
| Electrical rating | | |
| Power loss | | 7.2 W |
| Rated operational voltage | | 24 (12) V DC |
| Supply voltage | | 20.4 – 28.8 (11.8 – 14.4) V DC, Admissible range, Power supply |
| Supply voltage at DC - max | | 5 V |
| Communication | | |
| Bus termination | | Switchable |
| Data transfer rate | | 93.75 kBit/s with 1200 m 9.6 - 12000 kBit/s 500 kBit/s with 400 m 1500 kBit/s with 200 m Transmit data: 3500 Byte 9.6 kBit/s with 1200 m 3000 kBit/s with 100 m 19.2 kBit/s with 1200 m 12000 kBit/s with 100 m 187.5 kBit/s with 1000 m 6000 kBit/s with 100 m Receive data: 3500 Bytes |
| Interfaces | | PROFIBUS DP, RS485, EN 50170 (built-in) Max. 244 Bytes per slave (Inputs/outputs) |
| LED indicator | | Status indication of Bus diagnostics: LED |
| Number of modules | | 3 (XC200) 124 (slaves) 1 (XC100) |
| Number of slots | | 3 |
| Plug type | | 9-pole SUB-D socket |
| Protocol | | PROFIBUS |
| Safety | | |
| Explosion safety category for dust | | None |
| Explosion safety category for gas | | None |
| Potential isolation | | Interfaces: yes |
| Design verification | | |
| Equipment heat dissipation, current-dependent Pvid | | 0 W |
| Heat dissipation capacity Pdis | | 0 W |
| Heat dissipation per pole, current-dependent Pvid | | 0 W |
| Rated operational current for specified heat dissipation (In) | | 0 A |
| Static heat dissipation, non-current-dependent Pvs | | 7.2 W |
| 10.2.2 Corrosion resistance | | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | | Meets the product standard's requirements. |
| 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects | | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | | Meets the product standard's requirements. |
| 10.2.5 Lifting | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions | | Meets the product standard's requirements. |
| 10.3 Degree of protection of assemblies | | Meets the product standard's requirements. |
| 10.4 Clearances and creepage distances | | Meets the product standard's requirements. |
| 10.5 Protection against electric shock | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 Incorporation of switching devices and components | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 Internal electrical circuits and connections | | Is the panel builder's responsibility. |
| 10.8 Connections for external conductors | | Is the panel builder's responsibility. |
| 10.9.2 Power-frequency electric strength | | Is the panel builder's responsibility. |
| 10.9.3 Impulse withstand voltage | | Is the panel builder's responsibility. |
| 10.9.4 Testing of enclosures made of insulating material | | Is the panel builder's responsibility. |
| 10.10 Temperature rise | | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating | | Is the panel builder's responsibility. |
| 10.12 Electromagnetic compatibility | | Is the panel builder's responsibility. |

Technical data ETIM 9.0

| Programmable logic controllers PLC (EG000024) / PLC communication module (EC001423) | | |
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| Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Programmable logic control (SPS) / SPS communication module (ec1@ss13-27-24-22-08 [AKE531019]) | | |
| Number of HW-interfaces industrial Ethernet | | 0 |
| Number of interfaces PROFINET | | 0 |
| Number of HW-interfaces CAN | | |
| Number of HW-interfaces RS-232 | | 0 |
| Number of HW-interfaces RS-422 | | 0 |
| Number of HW-interfaces RS-485 | | 1 |
| Number of HW-interfaces serial TTY | | 0 |
| Number of HW-interfaces USB | | 0 |
| Number of HW-interfaces parallel | | 0 |
| Number of HW-interfaces wireless | | 0 |
| Number of HW-interfaces other | | 0 |
| With optical interface | | No |
| Supporting protocol for EtherCAT | | No |
| Supporting protocol for TCP/IP | | No |
| Supporting protocol for PROFIBUS | | Yes |
| Supporting protocol for CAN | | No |
| Supporting protocol for INTERBUS | | No |
| Supporting protocol for ASI | | No |
| Supporting protocol for KNX | | No |
| Supporting protocol for Modbus | | No |
| Supporting protocol for Data-Highway | | No |
| Supporting protocol for DeviceNet | | No |
| Supporting protocol for SUCONET | | No |
| Supporting protocol for LON | | No |
| Supporting protocol for PROFINET IO | | No |
| Supporting protocol for PROFINET CBA | | No |
| Supporting protocol for SERCOS | | No |
| Supporting protocol for Foundation Fieldbus | | No |
| Supporting protocol for EtherNet/IP | | No |
| Supporting protocol for AS-Interface Safety at Work | | No |
| Supporting protocol for DeviceNet Safety | | No |
| Supporting protocol for INTERBUS-Safety | | No |
| Supporting protocol for PROFIsafe | | No |
| Supporting protocol for SafetyBUS p | | No |
| Supporting protocol for other bus systems | | No |
| Radio standard Bluetooth | | No |
| Radio standard WLAN 802.11 | | No |
| Radio standard GPRS | | No |
| Radio standard GSM | | No |
| Radio standard UMTS | | No |
| IO link master | | No |
| Redundancy | | No |
| Type of data transmission | | Serial |
| Transmission rate | kBit/s | 12000 |
| With potential separation | | Yes |
| SIL according to IEC 61508 | | None |
| Suitable for safety functions | | No |
| Performance level according to EN ISO 13849-1 | | None |
| Appendant operation agent (Ex ia) | | No |

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| Appendant operation agent (Ex ib) | | | No |
| Explosion safety category for gas | | | None |
| Explosion safety category for dust | | | None |
| Certified for UL hazardous location class I | | | No |
| Certified for UL hazardous location class II | | | No |
| Certified for UL hazardous location class III | | | No |
| Power consumption | | W | |
| Certified for UL hazardous location division 1 | | | No |
| Certified for UL hazardous location division 2 | | | No |
| Certified for UL hazardous location group A (acetylene) | | | No |
| Certified for UL hazardous location group B (hydrogen) | | | No |
| Certified for UL hazardous location group C (ethylene) | | | No |
| Certified for UL hazardous location group D (propane) | | | No |
| Certified for UL hazardous location group E (metal dusts) | | | No |
| Certified for UL hazardous location group F (carbonaceous dusts) | | | No |
| Certified for UL hazardous location group G (non-conductive dusts) | | | No |
| Width | | mm | 30 |
| Height | | mm | 95 |
| Depth | | mm | 100 |