# DATASHEET - XN-S4S-SBCS

**Base module washer XI/ON, screw, 4 connection levels, con. to C rail**

**Part no.** **XN-S4S-SBCS**
**140091**

Powering Business Worldwide™

## General specifications

| | |
|---|---|
| Product name | Eaton XN Rack |
| Part no. | XN-S4S-SBCS |
| EAN | 7640130121201 |
| Product Length/Depth | 128.9 millimetre |
| Product height | 49.9 millimetre |
| Product width | 12.6 millimetre |
| Product weight | 0.051 kilogram |
| Certifications | IEC/EN 61000-6-4<br>Certified by UL for use in Canada<br>IEC/EN 61131-2<br>CSA-C22.2 No. 142<br>Rated data for terminations according to IEC/EN 60947-7-1<br>UL report applies to both US and Canada<br>UL 508<br>IEC/EN 6113-2<br>IEC/EN 61000-6-2<br>CE<br>CSA Class No.: 2252-01, 2252-81<br>UL Recognized<br>CE, cUL<br>UL Category Control No.: NRAQ, NRAQ7<br>UL File No.: E205091 |
| Product Tradename | XN |
| Product Type | Rack |
| Product Sub Type | None |

## Features & Functions

| | |
|---|---|
| Fitted with: | Pluggable modules, central modules<br>Pluggable modules, digital I/O<br>Power supply |

## General information

| | |
|---|---|
| Degree of protection | IP20 |
| Mounting method | Rail mounting possible |
| Number of connection levels | 4 |
| Type | XI/ON slice card base module |
| Used with | XN-2DO-24VDC-2A-P<br>XN-4DO-24VDC-0.5A-P<br>XN-2DO-24VDC-0.5A-P<br>XN-2DO-R-NC<br>XN-2DO-24VDC-0.5A-N<br>XN-2DO-R-NO<br>XN-2DO-120/230VAC-0.5A |
| Voltage type | DC |

## Ambient conditions, mechanical

| | |
|---|---|
| Drop and topple | According to IEC 60068-2-31, free fall according to IEC 60068-2-32 |
| Shock resistance | Continuous according to IEC/EN 60068-2-29<br>Mechanical, According to IEC/EN 60068-2-27 |
| Vibration resistance | According to IEC/EN 60068-2-6 |

## Climatic environmental conditions

| | |
|---|---|
| Ambient operating temperature - min | 0 °C |
| Ambient operating temperature - max | 55 °C |
| Environmental conditions | Harmful gasses - H2S: 1 ppm (relative humidity < 75%, no condensation)<br>Harmful gasses - SO2: 10 ppm (relative humidity < 75%, no condensation) |
| Relative humidity | 5 - 95 % (indoor, Level RH-2, non-condensing for storage at 45°C) |

## Electro magnetic compatibility

| | |
|---|---|
| Air discharge | Air/contact discharge according to IEC/EN 61000-4-2 |
| Burst impulse | According to IEC/EN 61000-4-4 |
| Electromagnetic fields | According to IEC EN 61100-4-2 |

| | |
|---|---|
| Emitted interference | 230 - 1000 MHz (radiated, high frequency, according to EN 55016-2-3)<br>30 - 230 MHz (radiated, high frequency, according to EN 55016-2-3) |
| Radiated RFI | IEC/EN 61100-4-6 |
| Surge rating | According to IEC/EN 61000-4-5 Level 4 |
| Voltage dips | According to EN 61131-2 (Voltage fluctuations/voltage dips) |
| **Terminal capacities** | |
| Terminal capacity | 0.5 - 1.5 $mm^2$, flexible without ferrule, H07V-K<br>0.5 - 2.5 $mm^2$, solid, H07V-U<br>0.5 - 1.5 $mm^2$, with ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)<br>0.5 - 1.5 $mm^2$, with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight) |
| Gauge pin | A1 (according to IEC/EN 60947-1) |
| Stripping length (main cable) | 8 mm |
| **Communication** | |
| Connection | Connection to C rail |
| Connection type | Spring-loaded/screw terminal, Connection design in TOP direction |
| Number of slots | 1 |
| **Input/Output** | |
| Input current at AC - max | 0 A |
| Input voltage at AC 50 Hz - min | 0 V |
| Input voltage at AC 50 Hz - max | 0 V |
| Input voltage at DC - min | 0 V |
| Input voltage at DC - max | 0 V |
| Output current at AC, 50 Hz - max | 0 A |
| Output voltage at AC 50 Hz - max | 0 V |
| Output voltage at DC - min | 0 V |
| Output voltage at DC - max | 0 V |
| **Safety** | |
| Explosion safety category for dust | None |
| Explosion safety category for gas | None |
| Potential isolation | Through optocoupler: yes |
| **Design verification** | |
| Equipment heat dissipation, current-dependent Pvid | 0 W |
| Heat dissipation capacity Pdiss | 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 | 0 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. |

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|---|---|---|---|
| 10.11 Short-circuit rating | | | Is the panel builder's responsibility. |
| 10.12 Electromagnetic compatibility | | | Is the panel builder's responsibility. |
| 10.13 Mechanical function | | | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

## Technical data ETIM 9.0

| | | | |
|---|---|---|---|
| Programmable logic controllers PLC (EG000024) / Fieldbus, decentr. periphery - mounting frame (EC001598) | | | |
| Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Field bus, decentralized peripheral / Field bus, decentralized peripheral - module carrier (ecl@ss13-27-24-26-03 [BAA064018]) | | | |
| With integrated power supply | | | Yes |
| Input voltage AC 50 Hz | | V | 0 - 0 |
| Input voltage AC 60 Hz | | V | 0 - 0 |
| Input voltage DC | | V | 0 - 0 |
| Type of voltage (input voltage) | | | DC |
| Max. input current AC 50 Hz | | A | 0 |
| Max. input current AC 60 Hz | | A | 0 |
| Max. input current DC | | A | 0 |
| Output voltage AC 50 Hz | | V | 0 - 0 |
| Output voltage AC 60 Hz | | V | 0 - 0 |
| Output voltage DC | | V | 0 - 0 |
| Type of output voltage | | | DC |
| Max. output current AC 50 Hz | | A | 0 |
| Max. output current AC 60 Hz | | A | 0 |
| Max. output current DC | | A | 0 |
| System accessory | | | Yes |
| Number of slots | | | 1 |
| With pluggable modules, digital I/O | | | Yes |
| With pluggable modules, analogue I/O | | | No |
| With pluggable modules, communication modules | | | No |
| With pluggable modules, function and technology modules | | | No |
| With pluggable modules, central modules | | | Yes |
| With pluggable modules, others | | | No |
| Rail mounting possible | | | Yes |
| Wall mounting/direct mounting | | | No |
| Front built-in possible | | | No |
| Rack-assembly possible | | | No |
| Suitable for safety functions | | | No |
| SIL according to IEC 61508 | | | None |
| Performance level according to EN ISO 13849-1 | | | None |
| Appendant operation agent (Ex ia) | | | No |
| Appendant operation agent (Ex ib) | | | No |
| Explosion safety category for gas | | | None |
| Explosion safety category for dust | | | None |
| Width | | mm | 12.6 |
| Height | | mm | 49.9 |
| Depth | | mm | 128.9 |