# Base module block XI/ON, tension spring, 3 connection levels, con. to C rail

**Part no.**     XN-B3T-SBC
**Article no.**     140134

EAT·N
Powering Business Worldwide™

## Delivery program

| Function | | XI/ON block base modules |
|---|---|---|
| Connection levels | | 3 connection levels |
| Connection technique | | Spring-loaded terminals |
| Function | | for Block module |
| Short Description | | Connection to C rail |
| For use with | | XN-16DO-24VDC-0.5-P |

## Technical data

### General

| Standards | | | EN 61000-6-2<br>EN 61000-6-4<br>EN 61131-2 |
|---|---|---|---|
| Potential isolation | | | Yes, through optocoupler |
| Ambient temperature | | °C | 0 - +55 |
| Relative humidity | | | 5 - 95 % (indoor), Level RH-2, no condensation (for storage at 45°C) |
| Harmful gases | | ppm | $SO_2$: 10 (rel. humidity < 75%, no condensation)<br>$H_2S$: 1.0 (rel. humidity < 75 %,no condensation) |
| Vibration resistance, operating conditions | | | according to IEC/EN 60068-2-6 |
| Mechanical shock resistance | | g | according to IEC 60068-2-27 |
| Continuous shock resistance (IEC/EN 60068-2-29) | | | According to IEC 60068-2-29 |
| Drop and topple | | | According to IEC 60068-2-31, free fall according to IEC 60068-2-32 |
| Degree of Protection | | | IP20 |
| Electromagnetic compatibility (EMC) | | | |
| ESD | Air/contact discharge | kV | EN 61100-4-2 |
| Electromagnetic fields | (0.08…1) / (1,4…2) / (2…2,7) GHz | V/m | EN 61100-4-2 |
| Burst | | | EN 61100-4-4 |
| Surge | | | EN 61100-4-5 |
| Radiated RFI | | V | EN 61100-4-6 |
| Emitted interference (radiated, high frequency) | (30…230 MHz) / (230…1000 MHz) | dB | EN 55016-2-3 |
| Voltage fluctuations/voltage dips | | | EN 61131-2 |
| Type test | | | to EN 61131-2 |
| Approvals | | | CE, cUL (where required in process) |
| Other technical data (sheet catalogue) | | | Technical Data |

### Terminations

| Rated data | | | according to VDE 0611 Part 1/8.92 /<br>IEC/EN 60947-7-1 |
|---|---|---|---|
| Connection design in TOP direction | | | Spring-loaded/screw terminal |
| Stripping length | | mm | 8 |
| Clamping range | | | max. 0.5 - 2.5 mm$^2$ |
| Connectable conductors | | | |
| "e" solid H07V-U | | mm$^2$ | 0.5 - 2.5 |
| "f" flexible H 07V-K | | mm$^2$ | 0.5 - 1.5 |
| "f" with ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight) | | mm$^2$ | 0.5 - 1.5 |
| "f" with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight) | | mm$^2$ | 0.5 - 1.5 |
| Gauge pin IEC/EN 60947-1 | | | A1 |

# Design verification as per IEC/EN 61439

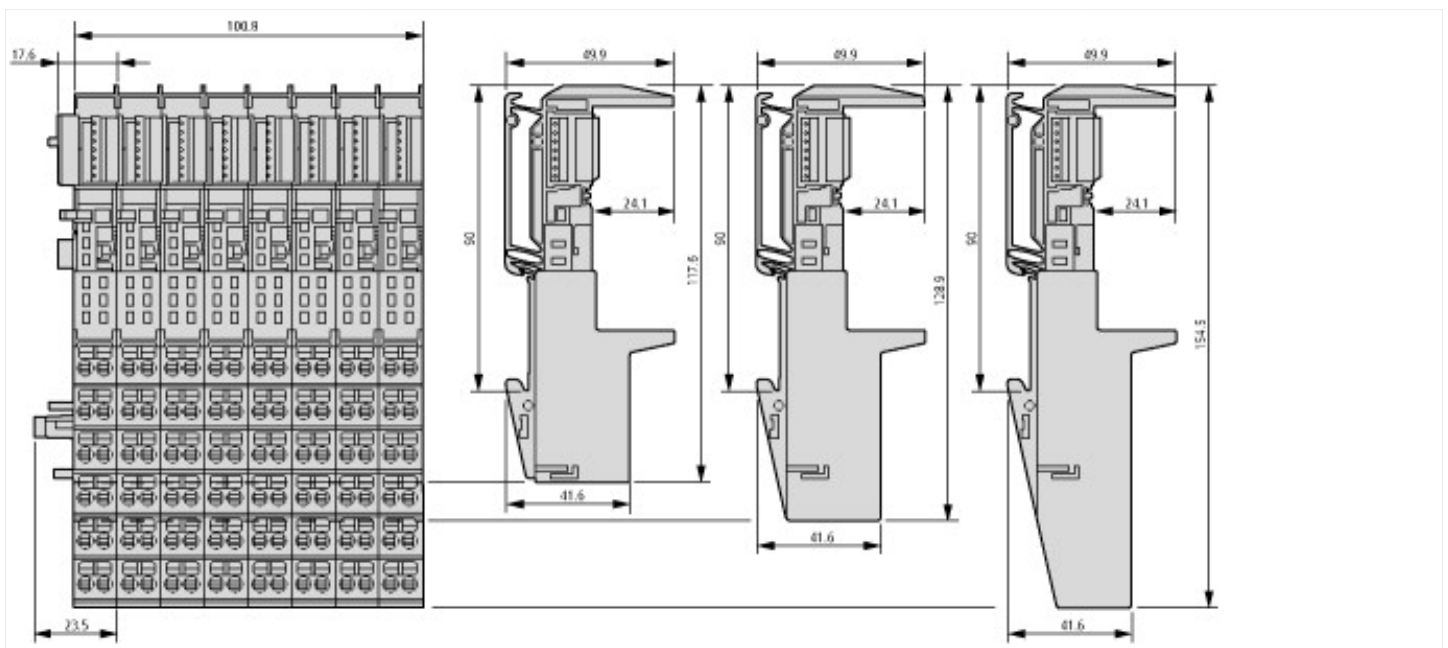| Technical data for design verification | | | |
|---|---|---|---|
| Rated operational current for specified heat dissipation | $I_n$ | A | 0 |
| Heat dissipation per pole, current-dependent | $P_{vid}$ | W | 0 |
| Equipment heat dissipation, current-dependent | $P_{vid}$ | W | 0 |
| Static heat dissipation, non-current-dependent | $P_{vs}$ | W | 0 |
| Heat dissipation capacity | $P_{diss}$ | W | 0 |
| Operating ambient temperature min. | | °C | 0 |
| Operating ambient temperature max. | | °C | 55 |
| Degree of Protection | | | IP20 |
| **IEC/EN 61439 design verification** | | | |
| 10.2 Strength of materials and parts | | | |
| 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties | | | |
| 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. |
| 10.13 Mechanical function | | | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

# Technical data ETIM 6.0

PLC's (EG000024) / Fieldbus, decentr. periphery - mounting frame (EC001598)

Electric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - module carrier (ecl@ss8.1-27-24-26-03 [BAA064010])

| | | | |
|---|---|---|---|
| With integrated power supply | | | No |
| Input voltage at AC 50 Hz | | V | 0 - 0 |
| Input voltage at AC 60 Hz | | V | 0 - 0 |
| Input voltage at 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 at AC 50 Hz | | V | 0 - 0 |
| Output voltage at AC 60 Hz | | V | 0 - 0 |
| Output voltage at 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 build in possible | | No |
| Rack-assembly possible | | No |
| Suitable for safety functions | | No |
| Category according to EN 954-1 | | |
| SIL according to IEC 61508 | | None |
| Performance level acc. 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 | 117.6 |
| Depth | mm | 49.9 |

## Approvals

| | |
|---|---|
| Product Standards | UL 508; CSA-C22.2 No. 142; IEC/EN 6113-2; CE marking |
| UL File No. | E205091 |
| UL Category Control No. | NRAQ, NRAQ7 |
| CSA File No. | UL report applies to both US and Canada |
| CSA Class No. | 2252-01, 2252-81 |
| North America Certification | UL recognized, certified by UL for use in Canada |
| Specially designed for North America | No |
| Current Limiting Circuit-Breaker | No |
| Degree of Protection | IEC: IP20, UL/CSA Type: - |

## Dimensions

## Additional product information (links)

| | |
|---|---|
| Technical Data | http://ecat.moeller.net/flip-cat/?edition=HPLEN&amp;startpage=14.111 |