

# Specifications



## Eaton 140075

Eaton XN Base module washer XI/ON, for bus refreshing, tension spring, 4 connection levels

### General specifications

|                             |               |
|-----------------------------|---------------|
| <b>PRODUCT NAME</b>         | Eaton XN Rack |
| <b>CATALOG NUMBER</b>       | 140075        |
| <b>MODEL CODE</b>           | XN-P4T-SBBC-B |
| <b>EAN</b>                  | 7640130121003 |
| <b>PRODUCT LENGTH/DEPTH</b> | 128.9 mm      |
| <b>PRODUCT HEIGHT</b>       | 49.9 mm       |
| <b>PRODUCT WIDTH</b>        | 12.6 mm       |
| <b>PRODUCT WEIGHT</b>       | 0.035 kg      |

|                       |                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CERTIFICATIONS</b> | IEC/EN 61131-2<br>UL report applies to both US and Canada<br>Certified by UL for use in Canada<br>UL 508<br>IEC/EN 6113-2<br>IEC/EN 61000-6-2<br>UL Category Control No.: NRAQ, NRAQ7<br>IEC/EN 61000-6-4<br>Rated data for terminations according to IEC/EN 60947-7-1<br>CE<br>CE, cUL<br>CSA Class No.: 2252-01, 2252-81<br>UL Recognized<br>CSA-C22.2 No. 142<br>UL File No.: E205091 |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Ambient conditions, mechanical

|                             |                                                                                         |
|-----------------------------|-----------------------------------------------------------------------------------------|
| <b>DROP AND TOPPLE</b>      | According to IEC 60068-2-31, free fall according to IEC 60068-2-32                      |
| <b>SHOCK RESISTANCE</b>     | Continuous according to IEC/EN 60068-2-29<br>Mechanical, According to IEC/EN 60068-2-27 |
| <b>VIBRATION RESISTANCE</b> | According to IEC/EN 60068-2-6                                                           |

## Communication

|                        |                                                                  |
|------------------------|------------------------------------------------------------------|
| <b>CONNECTION</b>      | Connection to C rail                                             |
| <b>CONNECTION TYPE</b> | Spring-loaded/screw terminal, Connection design in TOP direction |
| <b>NUMBER OF SLOTS</b> | 1                                                                |

## Climatic environmental conditions

|                                            |                                                                                                                                                   |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b> | 55 °C                                                                                                                                             |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b> | 0 °C                                                                                                                                              |
| <b>ENVIRONMENTAL CONDITIONS</b>            | Harmful gasses - H2S: 1 ppm (relative humidity < 75%, no condensation)<br>Harmful gasses - SO2: 10 ppm (relative humidity < 75%, no condensation) |
| <b>RELATIVE HUMIDITY</b>                   | 5 - 95 % (indoor, Level RH-2, non-condensing for storage at 45°C)                                                                                 |

## Design verification

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>10.10 TEMPERATURE RISE</b>                                                           | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| <b>10.11 SHORT-CIRCUIT RATING</b>                                                       | Is the panel builder's responsibility.                                                                                           |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                                              | Is the panel builder's responsibility.                                                                                           |
| <b>10.13 MECHANICAL FUNCTION</b>                                                        | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |
| <b>10.2.2 CORROSION RESISTANCE</b>                                                      | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>                         | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>       | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Meets the product standard's requirements.                                                                                       |
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>                                 | Meets the product standard's requirements.                                                                                       |
| <b>10.2.5 LIFTING</b>                                                                   | Does not apply, since the entire switchgear needs to be evaluated.                                                               |

|                                                                      |                                                                    |
|----------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>10.2.6 MECHANICAL IMPACT</b>                                      | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.2.7 INSCRIPTIONS</b>                                           | Meets the product standard's requirements.                         |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                       | Meets the product standard's requirements.                         |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                        | Meets the product standard's requirements.                         |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                        | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>        | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>             | Is the panel builder's responsibility.                             |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                      | Is the panel builder's responsibility.                             |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                      | Is the panel builder's responsibility.                             |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                              | Is the panel builder's responsibility.                             |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>      | Is the panel builder's responsibility.                             |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>            | 0 W                                                                |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                               | 0 W                                                                |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>             | 0 W                                                                |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 0 A                                                                |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 0 W                                                                |

## Electro magnetic compatibility

|                               |                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AIR DISCHARGE</b>          | Air/contact discharge according to IEC/EN 61000-4-2                                                                                        |
| <b>BURST IMPULSE</b>          | According to IEC/EN 61000-4-4                                                                                                              |
| <b>ELECTROMAGNETIC FIELDS</b> | According to IEC EN 61100-4-2                                                                                                              |
| <b>EMITTED INTERFERENCE</b>   | 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) |
| <b>RADIATED RFI</b>           | IEC/EN 61100-4-6                                                                                                                           |
| <b>SURGE RATING</b>           | According to IEC/EN 61000-4-5 Level 4                                                                                                      |
| <b>VOLTAGE DIPS</b>           | According to EN 61131-2 (Voltage fluctuations/voltage dips)                                                                                |

## General information

|                                    |                              |
|------------------------------------|------------------------------|
| <b>DEGREE OF PROTECTION</b>        | IP20                         |
| <b>MOUNTING METHOD</b>             | Rail mounting possible       |
| <b>NUMBER OF CONNECTION LEVELS</b> | 4                            |
| <b>TYPE</b>                        | XI/ON slice card base module |
| <b>USED WITH</b>                   | XN-BR-24VDC-D                |
| <b>VOLTAGE TYPE</b>                | DC                           |

## Safety

|                                           |                          |
|-------------------------------------------|--------------------------|
| <b>EXPLOSION SAFETY CATEGORY FOR DUST</b> | None                     |
| <b>EXPLOSION SAFETY CATEGORY FOR GAS</b>  | None                     |
| <b>POTENTIAL ISOLATION</b>                | Through optocoupler: yes |

## Features & functions

|                     |                                                                                 |
|---------------------|---------------------------------------------------------------------------------|
| <b>FITTED WITH:</b> | Pluggable modules, central modules<br>Power supply<br>Pluggable modules, others |
|---------------------|---------------------------------------------------------------------------------|

## Input/Output

|                                          |     |
|------------------------------------------|-----|
| <b>INPUT CURRENT AT AC - MAX</b>         | 0 A |
| <b>INPUT VOLTAGE AT AC 50 HZ - MAX</b>   | 0 V |
| <b>INPUT VOLTAGE AT AC 50 HZ - MIN</b>   | 0 V |
| <b>INPUT VOLTAGE AT DC - MAX</b>         | 0 V |
| <b>INPUT VOLTAGE AT DC - MIN</b>         | 0 V |
| <b>OUTPUT CURRENT AT AC, 50 HZ - MAX</b> | 0 A |
| <b>OUTPUT VOLTAGE AT AC 50 HZ - MAX</b>  | 0 V |
| <b>OUTPUT VOLTAGE AT DC - MAX</b>        | 0 V |
| <b>OUTPUT VOLTAGE AT DC - MIN</b>        | 0 V |

## Terminal capacities

|                                      |                                           |
|--------------------------------------|-------------------------------------------|
| <b>GAUGE PIN</b>                     | A1 (according to IEC/EN 60947-1)          |
| <b>STRIPPING LENGTH (MAIN CABLE)</b> | 8 mm                                      |
| <b>TERMINAL CAPACITY</b>             | 0.5 - 1.5 mm <sup>2</sup> , with ferrules |

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with plastic collar  
according to DIN 46228-1  
(ferrules crimped gas-  
tight)  
0.5 - 2.5 mm<sup>2</sup>, solid, H07V-  
U  
0.5 - 1.5 mm<sup>2</sup>, flexible  
without ferrule, H07V-K  
0.5 - 1.5 mm<sup>2</sup>, with ferrules  
without plastic collar  
according to DIN 46228-1  
(ferrules crimped gas-  
tight)

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## Resources

|            |                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------|
| BROCHURES  | <a href="#">Slice card modular I/O system for the machine building industry XN300 - brochure</a> |
|            | <a href="#">eaton-xc300-modular-plc-brochure-br050008en-en-us.pdf</a>                            |
| DRAWINGS   | <a href="#">eaton-electronic-devices-tension-spring-xn-rack-dimensions.eps</a>                   |
|            | <a href="#">eaton-electronic-devices-xion-xn-rack-3d-drawing-002.eps</a>                         |
| ECAD MODEL | <a href="#">DA-CE-ETN.XN-P4T-SBBC-B</a>                                                          |
| MCAD MODEL | <a href="#">eaton-accessories-mcad-drawings-xn-p4t-sbbc-b.dwg</a>                                |
|            | <a href="#">DA-CS-xn_p4t_sbbc_b</a>                                                              |

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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