

# Specifications



## Eaton 125064

Eaton SPX Output expansion 1RO(NO)  
5DI(42-240 VAC) for variable frequency  
drives SVX and SPX

### General specifications

|                             |                                                                                                                                                                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton SPX output expansion                                                                                                                                                                                                                          |
| <b>CATALOG NUMBER</b>       | 125064                                                                                                                                                                                                                                              |
| <b>MODEL CODE</b>           | OPTB9                                                                                                                                                                                                                                               |
| <b>EAN</b>                  | 4015081226757                                                                                                                                                                                                                                       |
| <b>PRODUCT LENGTH/DEPTH</b> | 39 mm                                                                                                                                                                                                                                               |
| <b>PRODUCT HEIGHT</b>       | 6 mm                                                                                                                                                                                                                                                |
| <b>PRODUCT WIDTH</b>        | 22 mm                                                                                                                                                                                                                                               |
| <b>PRODUCT WEIGHT</b>       | 0.2 kg                                                                                                                                                                                                                                              |
| <b>CERTIFICATIONS</b>       | IEC/EN61800-5<br>UL Category Control No.:<br>NMMS, NMMS2, NMMS7,<br>NMMS8<br>IEC/EN61800-3<br>Certified by UL for use in<br>Canada<br>CE<br>UL File No.: E134360<br>UL report applies to both<br>US and Canada<br>UL 508C<br>UL<br>CSA-C22.2 No. 14 |
| <b>CATALOG NOTES</b>        | The expansion module is<br>plugged into the variable-<br>frequency drive.                                                                                                                                                                           |

## Control circuit

|               |                                  |
|---------------|----------------------------------|
| <b>INPUT</b>  | 5 digital inputs (42 - 240 V AC) |
| <b>OUTPUT</b> | 1 Relay Output (NO)              |

## 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. The specifications for the switchgear must be observed.                                   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                                              | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <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>                                          | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                                           | Meets the product standard's requirements.                                                                                       |
| <b>10.6 INCORPORATION OF</b>                                                            | Does not apply, since the                                                                                                        |

|                                                                 |                                          |
|-----------------------------------------------------------------|------------------------------------------|
| <b>SWITCHING DEVICES AND COMPONENTS</b>                         | 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.   |

## General information

|                         |                           |
|-------------------------|---------------------------|
| <b>PRODUCT CATEGORY</b> | Accessories               |
| <b>SUITABLE FOR</b>     | Branch circuits, (UL/CSA) |

## Resources

|                            |                                                                                                                                                                                                                                                                                                                    |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| APPLICATION NOTES          | <a href="#">eaton-9000x-spi-common-dc-bus-selection-ap040044-en-us.pdf</a><br><br><a href="#">Electromagnetic compatibility (EMC)</a>                                                                                                                                                                              |
| CATALOGUES                 | <a href="#">eaton-drives-soft-starter-catalog-ca04020001zen-us.pdf</a>                                                                                                                                                                                                                                             |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-accessory-declaration-of-conformity-uk251333en.pdf</a><br><br><a href="#">eaton-accessory-declaration-of-conformity-eu250850en.pdf</a>                                                                                                                                                           |
| DRAWINGS                   | <a href="#">eaton-regulating-equipment-options-spx-output-expansion-3d-drawing.eps</a>                                                                                                                                                                                                                             |
| INSTALLATION INSTRUCTIONS  | <a href="#">IL04012011Z2021_04.pdf</a>                                                                                                                                                                                                                                                                             |
| MULTIMEDIA                 | <a href="#">Eaton variable frequency drives - Demand more than good enough</a><br><br><a href="#">Eaton variable frequency drives - Demand more expertise</a><br><br><a href="#">Eaton variable frequency drives - Demand more innovation</a><br><br><a href="#">How does a VFD work to save energy and money?</a> |

|                 |
|-----------------|
| PROJECT NAME:   |
| PROJECT NUMBER: |
| PREPARED BY:    |
| DATE:           |



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