



I/O expansion device 6DI,1DO,2AI(mA/V),1AO(mA/V); +10 Vref; +24 V/EXT
 +24 V for variable frequency drives SVX and SPX

Part no. OPTA9
Catalog No. 125055
Alternate Catalog No. OPTA9
EL-Nummer (Norway) 4132594

Delivery program

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| Subrange | | I/O expansion |
| Description | | The expansion module is plugged into the variable-frequency drive. 6 digital inputs 1 digital output 2 analog inputs (mA/V) 1 analog output |
| For use with | | SVX, SPX |

Design verification as per IEC/EN 61439

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| 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 | | Does not apply, since the entire switchgear needs to be evaluated. |
| 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. The specifications for the switchgear must be observed. |
| 10.12 Electromagnetic compatibility | | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.13 Mechanical function | | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Approvals

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| Product Standards | | UL 508C; CSA-C22.2 No. 14; IEC/EN61800-3; IEC/EN61800-5; CE marking |
| UL File No. | | E134360 |
| UL Category Control No. | | NMMS, NMMS2, NMMS7, NMMS8 |
| CSA File No. | | UL report applies to both US and Canada |
| North America Certification | | UL listed, certified by UL for use in Canada |
| Specially designed for North America | | No |
| Suitable for | | Branch circuits |

Assets (links)

Declaration of CE Conformity

00002805

Instruction Leaflets

IL04012011Z2018_05

Additional product information (links)

IL04012011Z Instructions for Expansion cards for frequency inverter 9000X

IL04012011Z Instructions for Expansion cards for frequency inverter 9000X ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04012011Z2019_04.pdf

MN04003001Z Manual Option boards for 9000X variable frequency drives

MN04003001Z Handbuch Optionskarte für Frequenzumrichter 9000X - Deutsch ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04003001Z_DE.pdf

CA04020001Z-EN Product Range Catalog: Efficient Engineering for Starting and Controlling Motors http://www.eaton.eu/DE/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_1095238.pdf