# CERTIFICATE OF COMPLIANCE

| | |
|---|---|
| **Certificate Number** | 20161123-20160630 – E233211 |
| **Report Reference** | E233211 - 20131021 |
| **Issue Date** | 2016-NOVEMBER-23 |
| **Issued to:** | CANTONI MOTOR SA<br>ul 3 Maja 28<br>43-400 Cieszyn, POLAND |
| **This is to certify that representative samples of** | Motors - Component<br>See addendum page for models. |
| | Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate. |
| **Standard(s) for Safety:** | ANSI/UL 1004-1, "Rotating Electrical Machines - General Requirements"<br>CSA-C22.2 No. 100, "Motors and Generators." |
| **Additional Information:** | See the UL Online Certifications Directory at www.ul.com/database for additional information |

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: , may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

# CERTIFICATE OF COMPLIANCE

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|---|---|
| **Certificate Number** | 20161123-20160630 – E233211 |
| **Report Reference** | E233211 - 20131021 |
| **Issue Date** | 2016-NOVEMBER-23 |

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Three phase induction motors (Class F and Class H), "3SIE", Models:

3SIE90S2, 3SIE90L2, 3SIE90L2A, 3SIE100L2, 3SIE100L2A, 3SIE112M2, 3SIE112M2A, 3SIE112M2B, 3SIE132S2A, 3SIE132S2B, 3SIE132M2, 3SIE132M2A, 3SIE160M2A, 3SIE160M2B, 3SIE160L2, 3SIE160L2A, 3SIE180M2, 3SIE200L2A, 3SIE200L2B, 3SIE200L2C, 3SIE200L2D, 3SIE225M2, 3SIE225M2C, 3SIE250M2, 3SIE250M2C, 3SIE280S2, 3SIE280M2, 3SIE280M2C, 3SIE280M2D, 3SIE315S2, 3SIE315L2, 3SIE315M2A, 3SIE315M2B, 3SIE315M2C, 3SIE90S4, 3SIE90L4, 3SIE90L4A, 3SIE100L4A, 3SIE100L4B, 3SIE100L4C, 3SIE112M4, 3SIE112M4A, 3SIE132S4, 3SIE132M4, 3SIE132M4A, 3SIE132M4B, 3SIE160M4, 3SIE160L4, 3SIE160L4A, 3SIE180M4, 3SIE180L4, 3SIE200L4, 3SIE200L4C, 3SIE200L4D, 3SIE225S4, 3SIE225M4, 3SIE225M4C, 3SIE250M4, 3SIE250M4C, 3SIE280S4, 3SIE280M4, 3SIE280M4C, 3SIE315S4, 3SIE315L4, 3SIE315M4A, 3SIE315M4B, 3SIE315M4C, 3SIE90S6, 3SIE90L6, 3SIE90L6A, 3SIE100L6, 3SIE100L6A, 3SIE112M6, 3SIE112M6A, 3SIE132S6, 3SIE132M6A, 3SIE132M6B, 3SIE132M6C, 3SIE160M6, 3SIE160L6, 3SIE160L6A, 3SIE180L6, 3SIE180L6A, 3SIE200L6A, 3SIE200L6B, 3SIE225M6, 3SIE225M6C, 3SIE250M6, 3SIE250M6C, 3SIE280S6, 3SIE280M6, 3SIE280M6C, 3SIE315S6, 3SIE315L6, 3SIE315M6A, 3SIE315M6B, 3SIE315M6C, 3SIE315M6D

Bruce Mahrenholz, Director North American Certification Program

UL LLC

# CERTIFICATE OF COMPLIANCE

| | |
|---|---|
| **Certificate Number** | 20131022-E233211 |
| **Report Reference** | E233211-20111214 |
| **Issue Date** | 2013-OCTOBER-22 |
| **Issued to:** | CANTONI MOTOR SA<br>UL. GRAZYNSKIEGO 22<br>43-300 BIELSKO BIALA, POLAND |
| **This is to certify that representative samples of** | COMPONENT - MOTORS<br>See Addendum Page |
| | Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate. |
| **Standard(s) for Safety:** | UL 1004-1, Rotating Electrical Machines – General Requirements<br>CSA C22.2 No. 100, Motors and Generators |
| **Additional Information:** | See the UL Online Certifications Directory at www.ul.com/database for additional information |

Only those products bearing the UL Recognized Component Marks for the U.S. and Canada should be considered as being covered by UL's Recognition and Follow-Up Service and meeting the appropriate U.S. and Canadian requirements.

The UL Recognized Component Mark for the U.S. generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: , may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions. The UL Recognized Component Mark for Canada consists of the UL Recognized Mark for Canada: and the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Recognized Component Mark on the product.

William R. Carney

**William R. Carney, Director, North American Certification Programs**

**UL LLC**

# CERTIFICATE OF COMPLIANCE

| | |
|---|---|
| **Certificate Number** | 20131022-E233211 |
| **Report Reference** | E233211-20111214 |
| **Issue Date** | 2013-OCTOBER-22 |

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

"Class F" or "Class H" Insulated Motors model tabulated below.

Series SIE followed by 143, 145, 182, 184, 213, 215, 254, 256, 284, 286, 324, 326, 364, 365, 404, 405, 444, 445, 447 followed by additional letters and suffixes, may be prefixed by DC.

Series ELP followed by 143, 145, 182, 184, 213, 215, 254, 256, 284 or 286, followed by additional letters and suffixes, may be prefixed by DC.

Alternate nomenclature for ELP Series:
Series ELP followed by two numbers, followed by one letter, followed by 1, 2 or 3, followed by two letters.

William R. Carney

**William R. Carney, Director, North American Certification Programs**

**UL LLC**

CSA INTERNATIONAL

# Certificate of Verification

**Certificate:** 2394434 **Master Contract:** 151041

**Project:** 2394434 **Date Issued:** 2011-03-03

**Issued to:** **CANTONI MOTOR S.A.**
**Ul. M. Grazynskiego 22**
**43-300 Bielsko Biala**
**POLAND**
**Attention: Mr. Andrzej Sala**

***The Motor listed below are eligible to bear the CSA EEV Mark shown***


**Issued by:** Ioan Goga, Eng.

**PRODUCTS**

Class 8811-01 - ENERGY EFFICIENCY - MOTORS - Three Phase Induction
Class 8811 81 - ENERGY EFFICIENCY - MOTORS - Three Phase Induction - Evaluated to U.S. Requirements

Energy Efficiency Verification of Three-phase, squirrel-cage, induction motors, Series **SIE,** foot or flange mounted; 2, 4 or 6 poles, 600V ac or less (230/460V, 460V, 575V or 600V), 60 Hz, 1 to 250 hp, TEFC, NEMA frame sizes 143 to 447, Insulation System Class F, with Quoted Efficiency Values at full load as tabulated below:

**QUOTED EFFICIENCY VALUE (%)**

| Power (hp) | 2 poles | | 4 poles | | 6 poles | |
|---|---|---|---|---|---|---|
| | Minimum Nominal Efficiency (Premium) (%) | Quoted Efficiency (if higher than minimum) (%) | Minimum Nominal Efficiency (Premium) (%) | Quoted Efficiency (if higher than minimum) (%) | Minimum Nominal Efficiency (Premium) (%) | Quoted Efficiency (if higher than minimum) (%) |
| 1 | - | - | 85.5 | - | 82.5 | - |
| 1.5 | 84.0 | - | 86.5 | - | 87.5 | - |
| 2 | 85.5 | - | 86.5 | - | 88.5 | - |
| 3 | 86.5 | - | 89.5 | - | 89.5 | - |
| 5 | 88.5 | - | 89.5 | - | 89.5 | - |
| 7.5 | 89.5 | - | 91.7 | - | 91.0 | - |

CSA INTERNATIONAL

# Certificate of Compliance

**Certificate:** 2387961 **Master Contract:** 151041

**Project:** 2387961 **Date Issued:** February 18, 2011

**Issued to:** **Cantoni Motor S.A.**

**Ul. M. Grazynskiego 22**
**Bielsko Biala, 43-300**
**Poland**
**Attention: Andrzej SALA**

***The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.***

C US

Ioan Goga

**Issued by:** Ioan Goga, Eng.

**PRODUCTS**

**CLASS 4211 81** - MOTORS AND GENERATORS - Certified to US Standards
**CLASS 4211 01** - MOTORS AND GENERATORS

Three-phase, asynchronous, squirrel-cage, induction motors, Series **SIE xxxTyz**, foot or flange mounted; 2, 4 or 6 poles, 600V ac or less (230/460V, 460V, 575V or 600V), 60 Hz, 1 to 250 hp, Service Factor 1 to 1.4, TEFC, NEMA frame sizes 143 to 447, Insulation System Class F, Types:

a) 2 poles:

- SIE 143T2, 1.5hp, frame size 143,
- SIE 145T2, 2hp, frame size 145,
- SIE 182T2, 3hp, frame size 182,
- SIE 184T2, 5hp, frame size 184,
- SIE 213T2, 7.5hp, frame size 213,
- SIE 215T2, 10hp, frame size 215,
- SIE 254T2, 15hp, frame size 254,
- SIE 256T2, 20hp, frame size 256,

- SIE 284TS2, 25hp, frame size 284,
- SIE 286TS2, 30hp, frame size 286,
- SIE 324TS2, 40hp, frame size 324,
- SIE 326TS2, 50hp, frame size 326,
- SIE 364TS2, 60hp, frame size 364,
- SIE 365TS2, 75hp, frame size 365,
- SIE 405TS2, 100hp, frame size 405,
- SIE 444TS2, 125hp, frame size 444,
- SIE 445TS2, 150hp, frame size 445,
- SIE 447TS2A, 200hp, frame size 447,
- SIE 447TS2B, 250hp, frame size 447,

b) 4 poles:

- SIE 143T4, 1hp, frame size 143,
- SIE 145T4A, 1.5hp, frame size 145,
- SIE 145T4B, 2hp, frame size 145,
- SIE 182T4, 3hp, frame size 182,
- SIE 184T4, 5hp, frame size 184,
- SIE 213T4, 7.5hp, frame size 213,
- SIE 215T4, 10hp, frame size 215,
- SIE 254T4, 15hp, frame size 254,
- SIE 256T4, 20hp, frame size 256,
- SIE 284T4, 25hp, frame size 284,
- SIE 286T4, 30hp, frame size 286,
- SIE 324T4, 40hp, frame size 324,

- SIE 326T4, 50hp, frame size 326,
- SIE 364T4, 60hp, frame size 364,
- SIE 365T4, 75hp, frame size 365,
- SIE 405T4, 100hp, frame size 405,
- SIE 444T4, 125hp, frame size 444,
- SIE 445T4, 150hp, frame size 445,
- SIE 447T4A, 200hp, frame size 447,
- SIE 447T4B, 250hp, frame size 447,

c) 6 poles:

- SIE 145T6, 1hp, frame size 145,
- SIE 182T6, 1.5hp, frame size 182,
- SIE 184T6, 2hp, frame size 184,
- SIE 213T6, 3hp, frame size 213,
- SIE 215T6, 5hp, frame size 215,
- SIE 254T6, 7.5hp, frame size 254,
- SIE 256T6, 10hp, frame size 256,
- SIE 284T6, 15hp, frame size 284,
- SIE 286T6, 20hp, frame size 286,
- SIE 324T6, 25hp, frame size 324,
- SIE 326T6, 30hp, frame size 326,
- SIE 364T6, 40hp, frame size 364,
- SIE 365T6, 50hp, frame size 365,
- SIE 404T6, 60hp, frame size 404,
- SIE 405T6, 75hp, frame size 405,

- SIE 444T6, 100hp, frame size 444,
- SIE 445T6, 125hp, frame size 445,

Notes:
- Motors may be provided with temperature detectors responsive to motor temperature only, for connection to separate auxiliary circuits, not replacing normal overload protection as required by the .Canadian Electrical Code, Part 1.
- The supply connection is subject to further investigation by the local inspection authorities.
- "**xxx**" in the type designation represents the frame size;
- "**y**" in the type designation represents the number of poles;
- "**x**" in the type designation may be A or B or null.

## APPLICABLE REQUIREMENTS

CSA-C22.2 No. 100-04 - Motors and Generators

UL 1004-1, 1st Ed. - Rotating Electrical Machines – General Requirements

CSA INTERNATIONAL

# *Supplement to Certificate of Compliance*

**Certificate:** 2387961 **Master Contract:** 151041

***The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.***

## Product Certification History

| Project | Date | Description |
|---|---|---|
| 2387961 | February 18, 2011 | Three-phase, squirrel-cage, induction motors, Series SIE xxxTyz, foot or flange mounted; 2, 4 or 6 poles; 600V ac or less, 60 Hz, 1 to 250 hp, S. F. 1 to 1.4, TEFC, NEMA frame sizes 143 to 447, Ins. System Class F; To CSA C22.2 No. 100-04 and UL1004-1. |

**Certificate:** 2394434 **Master Contract:** 151041

## QUOTED EFFICIENCY VALUE (%) (concluded)

| Motor Horsepower | Minimum Nominal Efficiency (Premium) (%) | Quoted Efficiency (if higher than minimum) (%) | Minimum Nominal Efficiency (Premium) (%) | Quoted Efficiency (if higher than minimum) (%) | Minimum Nominal Efficiency (Premium) (%) | Quoted Efficiency (if higher than minimum) (%) |
|---|---|---|---|---|---|---|
| 10 | 90.2 | - | 91.7 | - | 91.0 | - |
| 15 | 91.0 | 91.7 | 92.4 | - | 91.7 | - |
| 20 | 91.0 | 91.7 | 93.0 | - | 91.7 | - |
| 25 | 91.7 | 92.4 | 93.6 | - | 93.0 | - |
| 30 | 91.7 | - | 93.6 | - | 93.0 | - |
| 40 | 92.4 | - | 94.1 | - | 94.1 | - |
| 50 | 93.0 | - | 94.5 | - | 94.1 | - |
| 60 | 93.6 | - | 95.0 | - | 94.5 | - |
| 75 | 93.6 | - | 95.4 | - | 94.5 | - |
| 100 | 94.1 | 95.4 | 95.4 | - | 95.0 | - |
| 125 | 95.0 | - | 95.4 | - | 95.0 | 95.4 |
| 150 | 95.0 | - | 95.8 | - | - | - |
| 200 | 95.4 | - | 96.2 | 96.5 | - | - |
| 250 | 95.8 | - | 96.2 | - | - | - |

Notes:

1. The above models have been CSA Certified for safety (in submittor's report 151041 – 2387961). See Certification Record 151041 for listing of CSA safety certified models.
2. Equipment verified by CSA for Energy Performance shall also be subject to the safety requirements for the local inspection authorities having jurisdiction.
3. The energy efficiency levels set out in table 3 of CSA C390-10, tested at 100% of rated full load, applies to motors Series **SIE** described in this report.
4. The following suffixes may be added to the **SIE** Series designation to form the motor type designation, in the following order (e.g.: SIE 447TS2A):
   a. Frame size (3 digits): 143 to 447;
   b. Housing and shaft construction (1 to 4 digits): T, TS, TCL, TDL, TSCL or TSDL;
   c. Number of poles (1 digit): 2, 4 or 6;
   d. Version (0 to 1 digit): A, B or null.

## APPLICABLE REQUIREMENTS

| | |
|---|---|
| CSA Standard CAN/CSA C390-10 - | Test methods, marking requirements, and energy efficiency levels for three-phase induction motors |
| CSA Standard CAN/CSA C390-93- | Energy Efficiency Test Methods for Three-Phase Induction Motors |

**Certificate:** 2394434 **Master Contract:** 151041

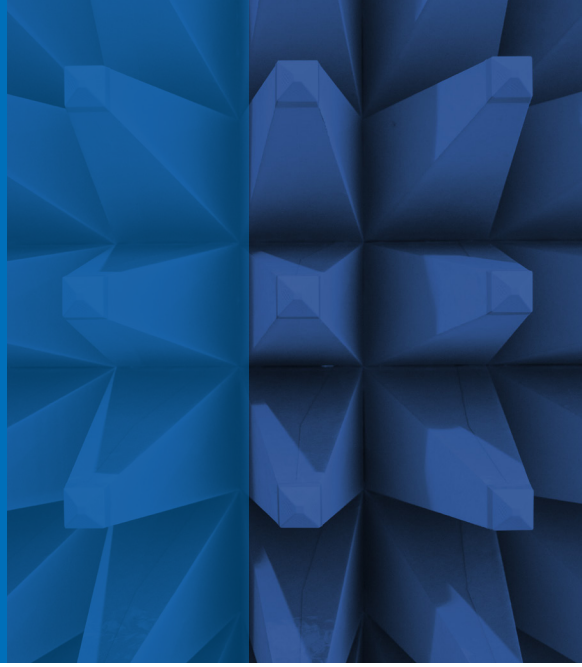
## *Supplement to Certificate of Verification*

**Certificate:** 2394434 **Master Contract:** 151041

***The motors listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.***

## Product Certification History

| Project | Date | Description |
|---|---|---|
| 2394434 | 2011-03-03 | Original Energy Efficiency Verification of Three-phase, squirrel-cage, induction motors, Series **SIE**, foot or flange mounted; 2, 4 or 6 poles, 600V ac or less (230/460V, 460V, 575V or 600V), 60 Hz, 1 to 250 hp, TEFC, NEMA frame sizes 143 to 447, Insulation System Class F. |



# Certificate of Qualification

THIS IS TO CERTIFY THAT

## CELMA INDUKTA S.A.

Ul. 3 Maja 19, Cieszyn, 43-400 Poland

has been qualified by CSA Group Testing & Certification Inc., as a Testing Facility for

## CSA Energy Efficiency Verification Program

### Based on ISO/IEC 17025:2017 operating as a SMTC

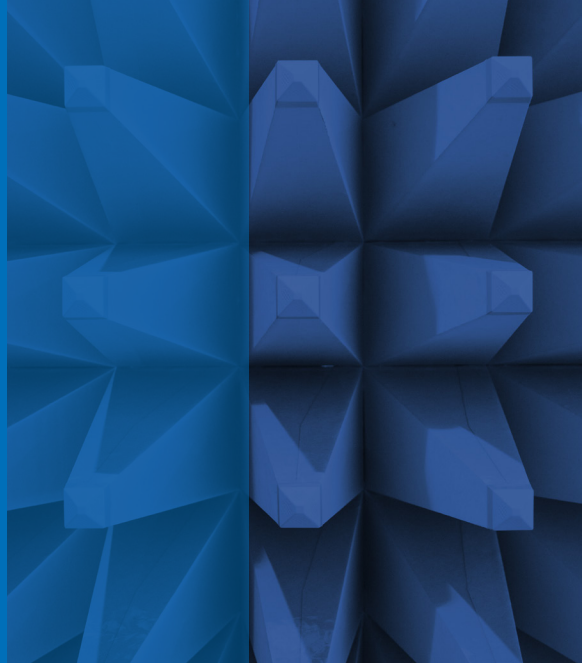
and to test products to the following performance standards:

CAN/CSA-C390-10 & CAN/CSA-C390-22

AFFIX SEAL HERE

Stephane Lariviere
Director Operations


586.31 Doc Rev 2021-05-28



# Certificate of Qualification

THIS IS TO CERTIFY THAT

## CELMA INDUKTA S.A.

Ul. 3 Maja 19, Cieszyn, 43-400 Poland

has been qualified by CSA Group Testing & Certification Inc., as a Testing Facility for

## Supervised Manufacturer's Testing for Certification Program

Based on ISO/IEC 17025:2017

AFFIX SEAL HERE

Stephane Lariviere
Director Operations


586.31 Doc Rev 2021-05-28