Certificate of Compliance

Certificate: 1855282 **Master Contract:** 167130

Project: 80075603 **Date Issued:** 2021-03-24

Issued To: **Franz Woelfer Elektromaschinenfabrik Osnabruck GmbH**
Industriestrasse 14
Osnabrueck-Sutthausen, Niedersachsen, 49082
Germany

Attention: Przemyslaw Lesniewski

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.

Issued by: Majid Ali
Majid Ali

C US

US

PRODUCTS
CLASS - C421101 - MOTORS AND GENERATORS
CLASS - C421181 - MOTORS AND GENERATORS Certified to US Standards

Squirrel Cage Induction motors, 380 to 690 V, 3-ph, 50 or 60 Hz, horizontal or vertical, foot or flange mounting, TEFC, Insulation Class F, Types D, size 100-400, 900 kW max, 50 °C Ambient.

Squirrel Cage Induction motors, 380 to 690 V, 3-ph, inverter duty, horizontal or vertical, foot or flange mounting, TEBC, Insulation Class F or H, Types ODRKF size 180-400-, max. 1230 kW, max. 1710 A; max, 50 °C Ambient, 10-110Hz.

Squirrel Cage Induction motors, 380 to 690 V, 3-ph, inverter duty, horizontal or vertical, foot or flange mounting, TENV, Insulation Class F or H, Types DRKO size 200-315, 67 kW max., 78 A max.; max. 50 °C Ambient, 10-110Hz.

Squirrel Cage Induction motors, 380 to 690 V, 3-ph, inverter duty, horizontal or vertical, foot or flange mounting, TEFC, Insulation Class F or H, Types DRK size 180-355, max. 540 kW, max. 730 A; max. 50 °C Ambient, 10-110Hz.

Squirrel Cage Induction motors, 380 to 690 V, 3-ph, inverter duty, horizontal or vertical, foot or flange mounting, TEBC, Insulation Class F or H, Types DRKF size 180-450, max. 1200 kW, max. 1640 A; max. 50 °C Ambient, 10-110Hz.

Notes

1 The type designation is followed by suffix letters and figures, indicating construction details and the number of poles.
2 The motors may be provided with thermal sensors embedded in the stator windings for connection to external ELV circuits; these sensors do not substitute normal overload protection as required by CE Code Part I.
3 Motors may be provided with stand-still heaters and/or speed encoder.
4 Motors may be provided with cable strain reliefs when delivered for component use in equipment where the suitability of the installation is evaluated by CSA.
5 For maximum Power, depending on size and Insulation Class refer to Att6 Performance Table.

APPLICABLE REQUIREMENTS

CSA Standard C22.2 No. 100-14 (7th Ed.)	-	Motors and Generators
UL Standard 1004-1 (2th Ed.)	-	Rotating Electrical Machines – General Requirements
UL Standard 1004-8 (2th Ed.)	-	Standard for Safety Inverter Duty Motors

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

The following information shall appear on riveted metal nameplates, in a readily visible location on the frame or enclosure:

(a) The CSA Mark with the "c" and "us" indicators. Alternatively, one of the following marks may be used: *CSA* or *CSAus* or *cCSAus;*

(b) Submittor's identification: name or tradename "WÖLFER" or CSA Master Contract Number "167130" , adjacent to the CSA Monogram);

(c) Model, catalogue, style, or other type of designation;

(d) Date code or serial number traceable to the month and year or manufacture;

(e) Complete electrical ratings:
- rated voltage (V);
- full load rated input (A);
- rated frequency (Hz);
- number of phases (3-ph);

(f) Rated output in kW or hp;

(g) Speed (rated full load speed in revolutions per minute);

(h) Appropriate letter code for the rated insulation system: Insulation Class **F or H**;

(i) Maximum rated ambient temperature (in degrees Celsius): "**50 C**", except for motors with brake the ambient temperature marked shall be maximum: **"45°C"**;

(j) "**TEFC"** or **"TENV"** or **"TEBC"**

(k) Time rating: "**Continuous**" or "**CONT**" for continuous duty; motors, motors type ODRKF, DRKO, DRK, DRKF are eligible to be marked with a duty cycle where applicable.

(l) Code letter to indicate locked-rotor amperes in accordance with the National Electrical Code, ANSI/NFPA 70-1999, for an alternating-current motor rated 1/2 horsepower (373 W output) or more;

(m) Direction of rotation is shown on the ventilator hood when separately energized or when this information is necessary for proper operation;

Auxiliary voltages for ventilator, heater and encoder are marked on the nameplate or on a second riveted nameplate.

A motor provided with a terminal box or wiring compartment that is intended to be wired in the field shall be marked in readily visible location with the following or the equivalent: "**Acceptable for field wiring**." *Exception: If the marking on the motor on which the compartment is provided will serve as a means for determining whether the compartment is acceptable for field wiring, the information need not be separately marked on the motor.*

Installation instructions are delivered with each machine with construction requirements for mounting, bearing lubrication, etc. Each terminal box is provided with a suitable wiring diagram.

Nameplate adhesive label material approval information:

Nameplates are made of aluminum or stainless steel, riveted to the enclosure