

EXTENSION n. 07/08



to EC-Type Examination Certificate CESI 01ATEX096

Equipment: Three-phase asynchronous motors series T. 90 and T. 100, supplied by mains or inverter

Manufacturer: **WEG Equipamentos Electricos S/A - Motores**

Address: Av. Prof. Waldemar Grubba 3000 – Cx. P.42 - 89.256-900 - Jaraguá do Sul - BRASIL

Admitted variation



- Updating to EN 60079-0 (2006), EN 60079-1 (2004) and EN 60079-7 (2003) Standards.
- Constructive variations for operating at minimum ambient temperatures $T_a - 40\text{ }^\circ\text{C}$ and $T_a - 55\text{ }^\circ\text{C}$
- Change of corporate name from WEG MOTORES Ltda to WEG Equipamentos Electricos S/A - Motores

The admitted variation are described, in detail, in the descriptive documents annexed to this extension

Equipment identification and description

Marking

Three-phase asynchronous motors series T. 90 and T. 100 shall include the following marking:

 II 2G Ex d IIB T4 or  II 2G Ex de IIB T4

Electrical characteristics

- Maximum rated voltage (V):	690
- Maximum rated power (kW):	3
- Rated current (at 400 V):	6.24
- Rated frequency (Hz):	50/60
- Rated speed (rpm):	750 ÷ 3000
- Duty:	S1 ÷ S9
- Ambient Temperature (°C):	- 20 ÷ + 60 opp. - 40 ÷ + 60 opp. - 55 ÷ + 60
- Insulation class:	F with temperature limit for class B
- Degree of protection :	IP55 or IP56 or IP65 or IP66

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 01ATEX096.

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CESI S.p.A.
Divisione Energia
"Area Tecnica Certificazione"
Il Responsabile 

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Equipment identification and description (follows)

Constructive characteristics

Three-phase asynchronous motors series T. 90; T. 100L, both in Standard and "Premium Efficiency" configuration have been subjected to the following variations:

- dimensional variations of flame-joint and gap
- use of materials, components and accessories suitable for ambient temperature ranges $T_a -40\text{ °C} \div +60\text{ °C}$ and $T_a -55\text{ °C} \div +60\text{ °C}$.

The admitted variations are described, in detail, in the descriptive documents annexed to this extension

Warning label

"Winding protected with PTC thermistors"

or

"Winding protected with PT 100 detectors. Calibrate at 130 °C "for temperature class T4 (T 135 °C)

Report n. EX-A8004955

Installation conditions

The characteristics of cables and accessories must be suitable for the admitted ambient temperature

The accessories used for cable entries and for unused holes shall be subject of separate certification in compliance to the following standards:

EN 60079-0 (2006); EN 60079-1 (2004);

for terminal boxes with protection mode Ex d

EN 60079-0 (2006); EN 60079-1 (2004); EN 60079-7 (2003);

for terminal boxes with protection mode Ex de

In both cases they shall guarantee a minimum degree of protection IP declared on motor nameplate according to: EN 60034-5 (2001) and EN 60529 (1991) Standards.

Routine tests

The manufacturer shall carry out the routine tests prescribed at par. 27 of the EN 60079-0 (2006) Standards.

Ambient temperature $T_a \geq -20\text{ °C}$

The manufacturer is exempted from overpressure routine tests on the motors and related terminal boxes since they have submitted, with positive result, to the overpressure test, with the static method, at the test pressure corresponding to 4 times the reference pressure.

Ambient temperature $T_a < -20\text{ °C}$

For ambient temperature lower than $T_a -20\text{ °C}$, the manufacturer shall carry out the routine overpressure tests on the motors and related terminal boxes, with the static method according to par. 15.1.3.1 of the EN 60079-1 (2004) Standard, at the following pressures:

Motors	90	100
Pressure test value for $T_a \geq -40\text{ °C}$ (bar)	16.4	13.1
Pressure test value for $T_a \geq -55\text{ °C}$ (bar)	18.3	14.6
Terminal boxes		
Pressure test value for $T_a \geq -40\text{ °C}$ (bar)	12.7	15.0
Pressure test value for $T_a \geq -55\text{ °C}$ (bar)	14.1	16.8

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Descriptive documents (prot. EX-A8004962)

- Technical Note n° TB-1868 /2007 (5 pg.)	Rev. 00	dated	19/12/2007
- n. TB 0286	Rev. 07	dated	24/08/2007
- n. TB 0831	Rev. 03	dated	13/12/2007
- n. TB 0834	Rev. 04	dated	23/08/2007
- n. TB 0836	Rev. 04	dated	23/08/2007
- n. TB 0839	Rev. 04	dated	23/08/2007
- n. TB 0987	Rev. 00	dated	27/11/2002
- n. TB 0152	Rev. 01	dated	16/05/2001
- n. TB 0079	Rev. 04	dated	28/08/2007
- n. TB 0080	Rev. 08	dated	24/08/2007
- n. TB 0082	Rev. 03	dated	27/08/2007
- n. TB 0083	Rev. 07	dated	14/12/2007
- n. TB 0085	Rev. 09	dated	17/12/2007
- n. TB 1455	Rev. 02	dated	20/08/2007
- n. TB 1526	Rev. 00	dated	01/07/2005
- n. TB 1408	Rev. 01	dated	12/09/2007
- n. TB 1259	Rev. 00	dated	26/02/2004
- n. TB 1356	Rev. 00	dated	24/09/2004
- n. TB 01	Rev. 09	dated	19/12/2007
- n. TB 02	Rev. 09	dated	19/12/2007
- n. TB 03	Rev. 09	dated	19/12/2007
- n. TB 04	Rev. 09	dated	19/12/2007
- n. TB 05	Rev. 08	dated	19/12/2006
- n. TB 06	Rev. 00	dated	06/06/2003
- n. TB 07	Rev. 01	dated	21/10/2003
- n. TB 08	Rev. 01	dated	19/12/2003
- n. TB 09	Rev. 00	dated	06/06/2003
- Declaration of Conformity		dated	09/07/2007
- Safety Instruction n° 0280.1507 (13 pg)		dated	2006
- Register Court document (pg. 23)		dated	16/12/2005

One copy of all documents is kept in CESI files.

Essential Health and Safety Requirements

The Health and Safety Requirements are assured by compliance with the following Standards:

- EN 60079-0 : 2006: Electrical apparatus for explosive gas atmospheres.
General requirements
- EN 60079-1 : 2004 Flamoproof enclosures "d".
- EN 60079-7 : 2003 Increased safety "e"