

W22 Water Cooled

Installation, operation and maintenance manual



1. General considerations

The installation, operation and maintenance of the motor must be always performed by qualified personnel using proper tools and methods and following the directions contained in the documents supplied with the motor.

The instructions presented in this document are valid for WEG motors with the following characteristics

The instructions presented in this document are valid for VMEG motors with the following characteristics:

If Three-phase induction motors (with squire-loage roots, cooled by a water jacket in the frame;

If Three-phase permanent magnet motors, cooled by a water jacket in the frame;

Three-phase permanent magnet motors, cooled by a water jacket in the frame;

The objective of this manual is to provide important information, which must be observed during shipment, storage, installation, operation and maintenance of W32 Water Cooled motors.

Therefore, we ecommend the thorough reading of the instructions contained herein before performing any intervention on the motor. The noncomplance with the instructions informed in this contained in the performance of the production of the conduction of the manual and others mentioned in the website www.weg.net.voids the product warranty and may result in serious personal and material damages.



Electric motors feature exposed energized circuits and moving components which may injure people.

2.Shipment, storage and handling

Check the conditions of the motor at the receipt. In case any damage is found, it must be recorded in writing with the shipping agent and immediately communicated to the insurance company and WEG. In this case, no installation job can be started before the problem found has been solved. WEG. In this case, no installation job can be started before the problem found has been solved. The information contained on the identification justice must correspond to that of the invoice and to the conditions of the environment where the motor will be installed. If the motor is not immediately installed, it is recommended to keep it in a clean, of yplace, free of dust, vibrations, correleve gases and agents and with relative humidity not over 60%. If that occurs, it is necessary to protect the water jackets with an anticorrelent protective agent, according to the instructions given by the protector manufacturer. If the motor is stored at negative temperatures, then the water jacket must be completely emplied through the drains located in the frame and intermediate flanges, in such cases, or in cases where the motor is stored for a long period, before operation and with the motor off, it is necessary to recruitate water at 35° C with a flow rate of 20 /min for at least 30 minutes. off, it is necessary to recirculate water at 35 °C with a flow rate of 20 l/min for at least 30 minutes. To remove possible ologs caused by oxidation, an oxalic acid solution can be used prior to the recirculation process, leaving it to act for 10 minutes inside the jacket. After this period, the frame must be cleaned with pressurated water and then clean water must be recirculated for 30 minutes. In order to prevent water condensation within the motor during the storage period, its recommended to keep the space heater OR (if wailable). In order to prevent oxidation of the bearings and assure an even distribution of the jubricant, turn the motor shaft manually at least once a month (at least five turns), always leaving it in a different position. For open bearing motors stored in nome than six months, the bearings must be relibinised with the quantity of grease indicated on the nameplate before they are put into operation. In case the motors are stored for more than two years, it is recommended to change the bearings, or remove, wash, inspect and reliubricate them before putting the motor into operation.

Every procedure of handling the motor must be done in a gentle way in order to Every procedure of handling the motor must be onne in a genue way in ower we prevent impacts and damages to the bearings and with the shalf transportation/ locking device (if supplied) always installed. Always lift the motor by the lifting eyes, which were designed for the motor weight only and which must be never used to lift additional loads attached to the motor. The eyeboits of the individual components should only be used to handle these parts when disassembled.

Regularly measure the insulation resistance of the motor and before powering it up for the first time. Check the recommended values and the measuring procedures in the website.

3 Installation

id valityaw.www UdU4-6126 (14) dd:XB1 Av. Pretetto Waldemar Grubba, 300 89256-900 - Jaraguá do Sul - SC Phone: 55 (47) 3276-4000 WEG EQUIPAMENTOS ELETRICOS S.A.





During the installation, the motors must be protected against inadvertent starts.

ck the rotation direction of the motor, turning it without load before coupling Check the rot it to the load.

Permanent magnet motors, even when de-energized, pose a risk of electric shock at their terminals if the rotor moves. Make sure the rotor is locked before performing operations on the terminals.

Perior the tripping and shalf locking devices (if provided) before starting the motor installation. The motors must be only installed in places compatible with their mounting features and in applications and environments to which they are intended. The motors with feet must be installed on bases properly planned in order to prevent vibrations and assure perfect alignment. Motors with feet and flange must be fixed simultaneously by the feet and the flange. Under no circumstances may such motors be lifted only by the flange, unless this condition was evaluated or assertance for the MISCA when the behalfs commercial proceeds. The cooker evide treat the

and guaranteed by WEG during the technical-commercial proposal. The motor shaft must be properly aligned with the shaft of the driven machine. An incorrect alignment, as well as improper properly aligned with the shaft of the driven machine. An incorrect alignment, as well as improper tension of the driving bets, will cortainly damage the bearings, resulting in excessive vibrations and even causing shaft demage. The permissible radial and axial loads on the shaft indicated in the general manual or the webste must be respected. Whenever possible, use flexible couplings. Remove the corrosion protection grease from the end of the shaft and from the flange only right before the installation of the motor. Unless specified otherwise in the purchase order, WES motors are dynamically belanced with "half key" and without load (anough of the control o load (uncoupled). The driving elements, such as pulleys, couplings etc., must be properly balanced before they are installed on the motor shaft. The process of filling the water jackets depends on whether the motor operates horizontal or vertically. The schematic drawings in Figure 3.1 below

Horizontal Motor



01. Open the spigots 1
02. Open the drains 2
03. Connect the spigots 1 to the water 05. Fill the jacket until water starts to flow through the drains. 2 06. Close the drains 2 07. Recirculate water thr ough the lacket for 15 minutes, with the motor off

Vertical Motor



01. Open the spigots 1
02. Open the drains 2 of the intermediate flange facing upwards If the shaft end is up, it is the front interm If the shaft end is down, it is the rear inter

03. Connect the spigots 1 to the water piping system 04. Turn on the water valve, starting to fill

05. Fill the jacket until water starts to flow

through the drains 2

06. Close the drains 2

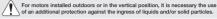
07. Recirculate water through the jacket for 15 minutes, with the motor off

The procedures described above are only a general guideline. The indicated drains must be closed ng the plugs provided (metallic and with sealing). The water jacket must be filled with caution to

using the plugs provided imitation and with sealingth. The water picket must be lined with caution to ensure that no air pockets are trapped in the cavity. When emptying the jacket, all drains must be opened to allow the water to drain completely. Compressed air can be used to assist in this process. After emptying the jacket, the plugs should be reinserted and the seals checked.

The drain plugs on the endshields must always be positioned so that drainage The drain plugs on the endshelds must always be positioned so that drainage is facilitated (at the lowest point of the motor), Motors with rubber drain plugs leave the factory in the closed position and must be opened periodically to allow condensed water to escape from inside the motor. For environments with high valve condensation and motors with IPS5 protection rating, the drains can be mounted in the open position. For motors with protection rating [IPS6, IPS6 or IPS6, the drains must remain in the closed position, being opened only during motor maintenance.

Motors with IEC 315 frames, when driven by a frequency inverter, must be Motors with IEC 313 Italies, who equipped with shaft grounding kits.



of an additional protection against the ingress of liquids and/or solid particles. In order to prevent accidents, before turning on the motor, make sure that the



grounding was executed according to the standards in effect and that the key is well fastened. Connect the motor properly to the power supply by means of safe and permanent contacts, always observing the data informed on the identification plate, such as rating voltage, wiring diagram, etc.

Apply the tightening torques indicated in Table 3.1 when connecting the power cable and grounding system, and installing the terminal box cover.

Table 3.1 - Tightening torques for fasteners [Nm]

M6 M8 M10 M12 M14 M16 M4 M5 | 10 to 20 to 40 to 6.5 to 10.0 to 15.5 to 1.5 to 1 30.0 to 50.0 to 1.0 to 50.0 75.0 2.0 115.0 to 170.0 35.0 to pins 50.0

For terminal block with 12 pins, the permitted tightening torque is: minimum 1.5 Nm and maximum 2.5 Nm

When sizing power cables and switching and protection devices, the following must be considered: the motor rated current, the service factor, the length of the cables, among others. For motors without a terminal block, insulate the motor leads using in sulating materials compatible with the insulation class stated on the nameplate. The minimum insulation distance between the non-insulated live parts themselves and between live parts and the ground must comply with standards and regulations in force in each country.

Take the necessary measures to ensure the process. Take the necessary measures to ensure the process of motor nameplate.

In nuclead cable entries of terminal boxes, which must be properly closed with plugs;

In cable entries used for the motor power supply and control, which must use components such as cable glands and conduits;

In components supplied loose (such as separately assembled terminal boxes);

In components supplied loose (such as separately assembled terminal boxes);

The motor must be installed with protection devices against overload. For three-phase motors, it is also recommended to install phase loss protection systems. In case the motor features temperature-monitoring devices on the windings and/or bearings, they must be connected during the operation and even during tests.

For motors without terminal blocks, do not push the excess length of the connection cables into the motor to prevent them from touching the rotor.

Check the proper operation of the accessories (brake, encoder, thermal protection, etc.) installed

on the motor before putting them into operation

Motors equipped with automatic thermal protectors will reclose automatically as soon as the motor cools down. Thus, do not use motors with automatic thermal protection in applications in which the auto-reclosing may become dangerous for people or the equipment.

Motors equipped with manual thermal protectors require manual reactivation after they go off. If the manual or automatic thermal protector goes off, disconnect the motor from the power supply and check the cause of the action of the thermal protector.



Permanent magnet motors must be driven by frequency inverters only.

To use a frequency inverter, it is mandatory to follow the instructions contained in the motor manual, in the technical guide induction Motors Powered by PWM Frequency Inverters 50029351, wailable on the website www.weg.net, and in the frequency inverter manual.

4. Operation

During operation, do not touch the non-insulated energized parts and never touch or stay too close to rotating parts. Make sure the space heater (if any) is OFF during the operation of the motor.

The rating values of performance and the operating conditions are specified on the identification plate of the motor. The voltage and frequency variations of the power supply must never exceed the limits established in the standards in effect. Occasional different behavior in the resular operation. limits established in the standards in effect. Occasional different behavior in the require operation licetof of themself protections, increased level of notice and disperation the preparation and current) must always be assessed by qualified personnel. If you are not sure, turn off the motor immediately and contact the experiment of the protection of the protection of the protection of the control of the rpm x 'ke')/1000. The use of roller bearings for direct coupling between the motor and the driven load is not recommended. Motors equipped with roller bearings need a minimum radial load for a satisfactory operation. After the motor stops, the cooling and Lubrication systems (if any) must be switched off and the space heater must be switched on. The water parameters for operation are listed on a fluid data plate affixed to the motor. Operation in conditions other than those specified on the motor amenglate is subject to loss of warranty. Normal operating conditions for V22/ Water Cooled motors include an ambient temperature not exceeding 40 °C and an altitude not exceeding 1000 m. The use of agents to prevent corresion, fouling and freezing can be used provided that the materials of the components in contact are taken into account during the selection of the additive. For ambient temperatures equal to or below 0° °C, he use of antiflexer agents is mandatory, and this is the sole responsibility of the customer. The water must meet the following criteria:

Parámetro	Valor
Temperatura de entrada del agua	De 5 a 35 °C, según la placa del moto
Dureza total del agua	≤ 1,50 [mmol/l]
Dureza carbonatada	≤ 1,10 [mmol/l]
Dureza no carbonatada	≤ 0,40 [mmol/l]
Valor de pH	= 7,0 to 8,0
Conductividad eléctrica	≤ 400 [μS/cm]
Hierro (Fe)	≤ 0,30 [mg/l]
Manganeso (Mn)	≤ 1,0 [mg/l]
Calcio (Ca)	≤ 50 [mg/l]
Magnesio (Mg)	≤ 10 [mg/l]
Sodio (Na)	≤ 50 [mg/l]
Cloruro (Cl)	≤ 50 [mg/l]
Sulfato (S0,)	≤ 50 [mg/l]
Nitrato (NO ₄)	≤ 10 [mg/l]
Sustancias sedimentables después de 0,5 horas	≤ 1 [ml/l]

The maximum operating pressure allowed is 8 bar, and it is the customer's sole responsibility to monitor and control the pressure level of the fluid used in the system. The motor does not have an device to relieve/regulate pressure.

5. Maintenance

efore beginning any job on the motor, it must be still, disconnected from the Before beginning any job on the motor, it must be sun, discontinuous from the motor is power supply and protected against inadvertent restant. Even when the motor is stopped, there might be voltage on the terminals of the space heaters. In motors equipped with capacitors, discharge them before handling them or performing

any job.
The disassembling of the motor during the warranty period must be performed by a WEG authorized technician only. In order to ensure the water jacket is sealed under any conditions, 100% of the motors undergo water tightness testing at the factory. Therefore, under no circumstances may be seal flanges be disassembled. If they are, the motor warranty will be immediately voided. In special cases where this disassembly is necessary, it is mandatory that it is performed by an Authorized WEG Technical Assistant with specific training for such operation. Whenever one or both of the water jacket seal flanges are disassembled, all respective seal rings must be replaced with new ones, following the exact specification and dimensions of the original design. Replacing the sealing rings does not extend/ renew the warrantly period.

For motors with permanent magnets, the assembling and disassembling of the motor require the use of proper devices due to the attraction or repulsion forces that occur between metallic parts. This service must only be performed by an Authorized WEG Technical Assistant with specific training for this operation. People that use pacemakers cannot handle these motors. The permanent magnets can also cause disturbances or damages to other electric equipment and components during service.

For motors supplied with a shaft grounding system, the condition of the brush must be constantly monitored and, when it reaches the end of its service life, it must be replaced with another brush of the same specification. If a motor is supplied with an internal grounding brush, identified by a label on the product, it is necessary to check it every time maintenance is performed on the bearings or any internal part of the motor.

The amount of grease and lubrication intervals are informed on the motor namenlate. It is extremely important that lubrication is performed as specified.

An excessive or insufficient lubrication increases the bearing temperature during operation resulting in premature wear of the bearings and consequent reduction of their useful life. The u of greases not recommended by WEG or in different quantities than the specification may result

in loss of the motor warranty.

The quality of the cooling water, in accordance with item 4, must be checked periodically according to the maintenance plan of the water supply system, and the frequency and procedures of such checks are the sole responsibility of the customer.

Begularly inspect the operation of the motor according to its application pect the fastening bolts, the bearings, the level of vibration and noise, the drains, etc

6. Additional instructions

For more information on transportation, storage, handling, installation, operation and maintenance of electric motors, and to consult the list of Authorized Service Centers, visit the website www

For special applications and operating conditions, it is necessary to consult the manual on the ebsite or contact WEG.

When contacting WEG, please, have the full description of the motor at hand, as well as the serial

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number and production date, indicated on the identification plate of the motor

For motors supplied with the WEG Motor Scan sensor, refer to the installation guidelines in the ceiving to Operation Overview Manual (10008475131) available at www.weg.ne

7. Warranty.
WEG Equiparmentos Elétricos S/A, Motor Unit ("WEG"), offers warranty against defects in workmanship and materials for its products for a period of 12 months from the date of the invoice issued by the factory or distributor/dealer, limited to 18 months from the date of manufacture.
If a warranty period is defined differently in the technical and commercial proposal of a particular sale, such period shall override the time limits set out above.
The periods above are independent of product in statistical date and start of operation. In case of any abnormal behavior in the product operation, the customer must immediately notify WEG in writing of the delect occurred and make the product available for WEG or its Authorized

Technical Assistance for the period necessary to identify the cause of the defect, verify the warranty

Technical Assistance for the period necessary to identify the cause of the defect, verify the warranty coverage, and perform the proper repairs. In order to be entitled to the warranty, the customer must meet the special control WEGs technical documents, especially those set out in the product Installation, Operation and Maintenance Manual, as well as the rules and regulation in force in each country. The defects arrange from the inappropriate or negligent use, operation, nat/or installation of the equipment, lack of preventive maintenance, as well as defects resulting from external factors or experience of the properties of the control of the components of the propriet of the Propriet of the Control will not apply if the customer, at its own discretion, makes repairs and/or modifications to the equipment without prior consent in writing by WEG.

equipment without prior consent in writing by WEG.

The warranty shall not cover equipment, parts and/or components whose useful life is usually shorter than the warranty period. It also does not cover defects and/or problems resulting from force majeure or other causes that cannot be attributed to WEG, such as but not initiated to: incorrect or incomplete specifications or data supplied by the customer, transportation, storage, handling, installation, operation and maintenance not complying with the provided instructions, accidents, defects in the construction works, use in applications and/or environments for which the product was not designed, equipment and/or component not included in the scope of WEG's supply. The warranty does not include disassembly services at the premises of the customer product transportation costs and travel, lodging and meal expenses for the staff of the Technical

product transportation costs and travel, lodging and meal expenses for the start of the lechnical Assistance, when requised by the customer. The services under warranty shall be executed solely at WEG authorized repair shops or at its own factory. Under no circumstances will the warranty services extend the equipment warranty period. WEGS coll liability is limited to the supplied product; WEG will not take any liability for indirect or consequential damages, such as less of profit, revenue losses and the like which may arise from the contract signed between the parties.

EU Declaration of Conformity

Manufacturers:

WEG Equipamentos Elétricos S.A. Av. Prefeito Waldemar Grubba, 3000 89256-900 - Jaraguá do Sul – SC – Brazil www.weg.net

WEG Linhares Equipamentos Elétricos

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Economic & Technical Development Zone, Nantong, Jiangsu Province - China www.weg.net/cn

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Single Contact Point in the European Union for compiling the tech

documentation: Luís Filipe Oliveira Silva Castro Araújo Authorised Representative www.weg.net/pt

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Changzhou Yatong Jiewei Electromotor Co..LTD

No. 118 Donardu West Board Luovana Town, Wujin, Changzhou, Jiangsu, China.

Antriebstechnik KATT Hessen GmbH (Bahnhofstrasse 66, 34576 Homberg

(Efze), Germany https://akh-antriebstechnik.de/

WEG (Chang Zhou) Automation Equipment Co.,Ltd No. 227, Xincheng Avenue, Jintan District, Changzhou City, Jiangsu Province, China www.wea.net/cn

Declares under sole responsibility that WEG electric motors and components used for

BLDC, W01, W11, W12, W20, W21, W22, W23, W30, W40, W50, W51, W60, W80, WFL, W1N, K1F, K1N, K10, K15, K1T, K1W, K2F, K2N, K2U, General Purpose, HGF, Roller Table, Steel Motor, PSC, Pump/Filter, Servomotor, Vertical High Thrust, Water Cooled and WQuattro

naintained and used in applications for which they were designed, and in compliance with the relevant installation standards and manufacturer's instructions, comply with the provisions of the following relevant European Union harmonization legislation and standards, wherever applicable

Low Voltage Directive 2014/35/FH*

(EU)2019/1781* as amended by Comission Regulation (EU)2021/341; Directive 2009/125/EC*; EU Ecodesian Directive

2011/65/ELI* and its amendments RoHS Directive (including Directive 2015/863/EU

Machinery Directive (EU)2023-1230**;

2014/30/EU (electric motors are considered EMC Directive inherently benign in terms of electromagnetic

compatibility).

EN 60034-1:2010 + AC:2010 / EN 60034-2-1:2014 / EN IEC 60034-5:2020 / EN 60034-6:1993/ EN 60034-7:1993 + A1:2001 / EN 60034-8:2007 + A1:2014 / EN 60034-9:2005 + A1:2007 /EN 60034-11:2004/ EN 60034-12:2017/EN IEC 60034-14:2018 / EN 60034-+ A1;2007 / EN 60024-11;2019 / EN 1EC 60024-11;2019 / EN 60034-13;2017 / EN 60204-13;2019 / EN 60034-30-2;2021 / EN 61800-5-1; 2007+A1;2017+A11;2017 / EN 1EC 61800-3; 2018 / EN 1EC 63000;2018 / CLC IEC/TS 60034-25;2024 and IEC 60034-30-3;2024.

* Electric motors with a voltage rating higher than 1000V are not under the scope.

** Electric motors are considered partly completed machinery and are supplied with a "Declaration of Incorporation".

Declaration of Incorporation

The products above cannot be put into service until the machinery into which they have been incorporated has been declared in conformity with the Machinery Directive.

A Technical Documentation for the products above is compiled in accordance with part B of annex VI or Machinery Directive (EU/92023-1250).

We undertake to transmit, in response to a reasoned request by the national authorities,

relevant information on the product identified above (partly completed machinery) through WEG authorized representative established in the European Union. The method of transmission shall be electronic or physical method and shall be without prejudice to the intellectual property rights of the manufacturer.

Signed for and on behalf of the manufact

Certifications Manager

Jaraguá do Sul

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Engineering Director

Jaraguá do Sul November 1, 2024



Manufacturers:

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WEG Linhares Equipamentos Elétricos

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Distrito Industrial Rio Quartel. Bairro Rio Quartel de Baixo

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when installed, maintained, and used in applications for which they were designed, and in compliance with the relevant installation standards and manufacturer's instructions, comply with the provisions of the following relevant European Union harmonization legislation and standards, wherever applicable:

Electrical Equipment (Safety) Regulations The Ecodesian for Energy-Related Products

Regulations and Energy Information The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations

S.I. 2012/3032*:

Supply of Machinery (Safety) Regulations S.I. 2008/1597 amended

Electromagnetic Compatibility Regulations considered inherently benign in terms

by S.I.2011/2157** S.I. 2016/1091 (electric motors are of electromagnetic compatibility):

S I 2021/745*-

EN 60034-1:2010 + AC:2010 / EN 60034-2:-1:2014 / EN IEC 60034-5:2020 / EN 60034-6:1993/ EN 60034-7:1993 + A1:2001 / EN 60034-8:2007 + A1:2014 / EN 60034-9:2005 A1:2007 / EN 60034-1:2007 / EN 60034-1:2018 / EN 60034-1:2018 / EN 60034-1:2018 / EN 60034-1:2018 / EN IEC 60204-1:2019 / EN IEC 60300:2018 / CLC IEC/TS 60034-3:2024 and CLC IEC/TS 60034-3:2024 and CLC IEC/TS 60034-3:2024 and CLC IEC/TS 60034-3:2024 and CLC IEC/TS 60034-3:2024

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Signed for and on hehalf of the manufacturer

Quality Systems and Certifications Manager

Jaraguá do Sul

VITOR

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Edson Jose Koshinski Engineering Director Jaraguá do Sul November 1, 2024

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