

## Industrial Motors

Commercial &  
Appliance Motors

Automation

Digital &  
Systems

Energy

Transmission &  
Distribution

Coatings

# Water Cooled Motor **Water cooling technology**

WEG Water Cooled motors were developed to match the increasing market demands for compact design motors with low noise level and high output power ratio per frame size. These motors meet the IE3 efficiency levels defined by IEC 60034-30-1 Standard, thus ensuring lower energy consumption and consequently reducing their operating costs.



**Driving efficiency and sustainability**



# Water Cooled Motor

Water Cooled motor is a compact product that was designed to meet several industrial applications. This motor is suitable to operate in reduced-space and aggressive environments that demand low noise level and minimum thermal dissipation to the environment. The product was designed with a cooling system consisting of longitudinal cooling water channels and the thermal exchange of the motor does not depend on the environment.

## Technical Features

- Output: up to 450kW
- Number of poles: 2 to 6 poles
- Frames: 200,250 and 315
- Voltage: up to 690 V
- Frequency: 50 Hz or 60 Hz
- Service factor: 1.00
- Degree of Protection: IP55
- Insulation class: F or H
- Mounting: B3T
- Frame material: Cast iron
- Cooling system: IC71W
- Grounding terminals on frame and main terminal box

## Applications

WEG Water Cooled motors can be used for a wide variety of applications and are mainly recommended where space and noise level reduction is required. They are also recommended for different applications including:

- Compressors
- Injection machines
- Water treatment plants
- Textile industries
- Mining equipment
- Power Train

## Features & Benefits

**Efficiency levels in accordance with IEC 60034-30-1** - Lower energy consumption and reduced operating cost.

**Water cooled** - Ensures more heat dissipation when compared to self-ventilated motors providing higher outputs in equivalent frame sizes.

**External fan not required** - Reduces the noise level and ensures a noiseless operation with high performance, low mechanical losses and consequent efficiency increase.

**Smaller dimensions** - Space optimization allowing reduction of the customer machine.

**Customization** - Product customized to meet specific applications.

**Operation with VSD without forced ventilation** - Auxiliary circuits not required, which reduces the total motor length.

**Wide speed range at constant torque** - The continuous water flow through the frame jacket allows the motor to provide constant torque from zero up to rated frequency since the heat dissipation does not depend on the motor speed.

Water cooled motors are usually adapted to specific applications.

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