

# W22 COOLING TOWER

## NEMA Premium® Efficiency Motors

1-100HP, 1800, 1200, 1800/900 &  
1200/900 RPM

Single Speed & 2-speed

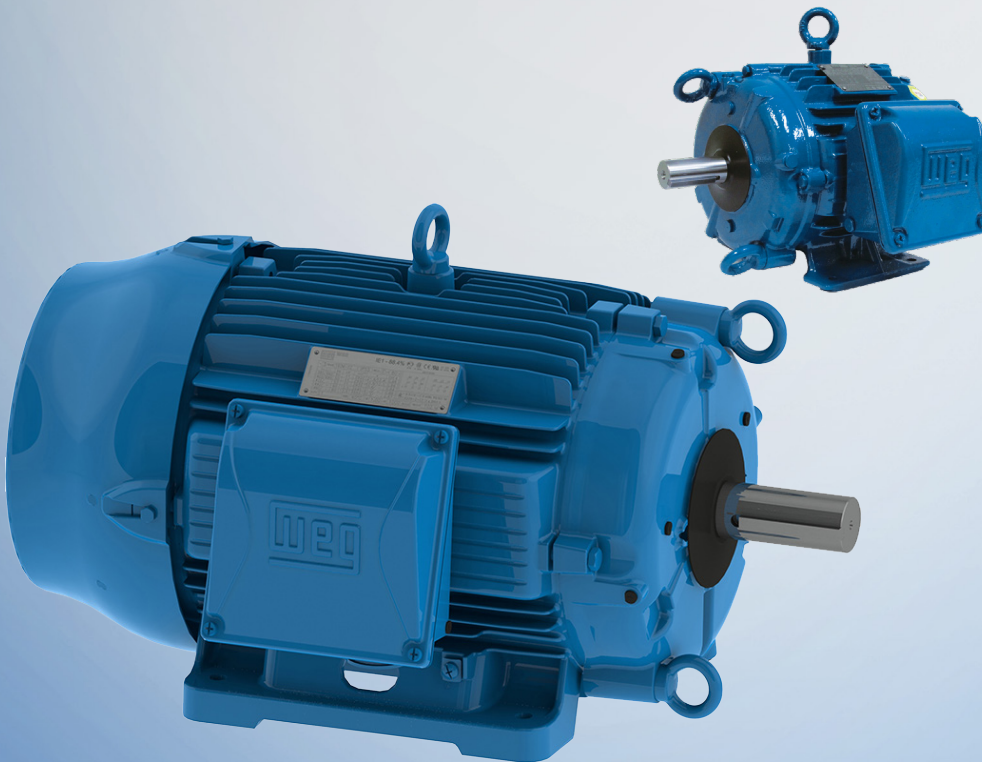
### Motors

Automation

Energy

Transmission and  
Distribution

Coatings



- Cooling Tower
- Evaporative Condensers
- Chemical plants
- Pulp and paper mills
- Pumps
- Fans
- Packaging equipment

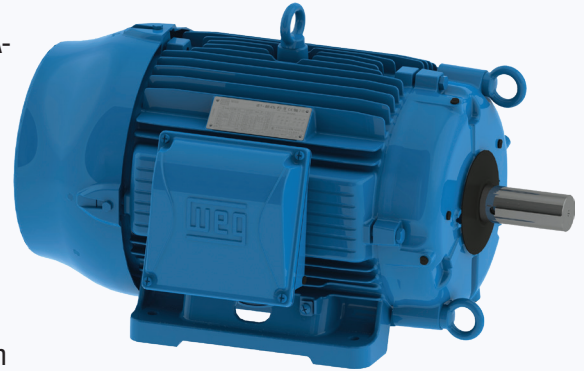
Driving efficiency and sustainability

## Cooling Tower - NEMA Premium Efficiency - Three Phase -TEFC/TEAO

WEG'S Cooling Tower - NEMA Premium Efficiency motors meet or exceed all EISA-2007 requirements for energy efficiency.

These TEFC and TEAO motors are built according to NEMA standards and designed for operation in 100% humidity and the most corrosive environments. The entire line is Inverter Rated for use with Variable Frequency Drives. They are designed to operate in either horizontal or vertical shaft up/down position. Sealed bearing in all sizes require no lubrication.

As with any other WEG motor, Cooling Tower motors are tested in accordance with IEEE 112, Method B, and their efficiency values are certified by UL (CSA C390). Cooling Tower motors will meet Design B torques, maintaining exceedingly high breakdown and locked rotor torque while providing the highest rated efficiency levels.



### STANDARD FEATURES

- Three-phase, 1800, 1200, 1800/900 and 1200/900RPM 60Hz
- Voltage: 208-230/460V, 200V, 460V or 575V 60Hz
- 1.25 Service Factor at 60Hz for Single Speed motors
- 1.15 Service Factor at 60Hz for Two-Speed motors
- Single Speed available from 1-100Hp and also rated 380V 50Hz 1.0SF
- Available in Totally Enclosed Fan Cooled – TEFC – and Totally Enclosed Air Over–TEAO – water/dust tight (IP55)
- Multiple End Shield Drain plugs for all mounting position
- Multiple Drain plugs on Terminal Box
- Rubber Lead Separator (isolator) between Terminal Box and Frame
- Joint Seal between frame and brackets
- Internal and External Epoxy Paint for increased corrosion protection
- V-ring slinger on both end shields
- Umbrella Seal on drive end prevents water tracking down shaft in shaft up installations
- Double Sealed Anti-Friction Ball Bearings - maintenance free
- NEMA frames 143T-445T
- Class 'F' insulation in all frames for increased reliability
- Class 'H' resin insulation system
- Class 'B' (80°C) Temperature rise at full load for longer life
- Continuous duty (S1)
- NPT threaded, Cast Iron terminal box rotatable in 90° increments
- F2 mount (Standard Configuration); F1 available as stock mod
- Laser Etched AISI 316 Stainless steel nameplate
- MGI Part 31 rating for use with VFD - 1000:1 VT speed range

### OPTIONAL FEATURES

- Thermostats
- Thermistors
- Space Heaters
- Shaft Grounding Device
- Drip covers for shaft down TEFC

#### Note:

All motors are tested according to IEEE 112 Std.

- Method 'B' or C390 CSA.

Energy efficiency motors verified by UL in addition to the DOE.

The NEMA Premium® is a trademark of NEMA.



APPROVED BY



E 104590

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LR 38324

# WEG W22 Cooling Tower Duty Motors



www.weg.net

## FAN COVER

Steel covers on 143T through 215T and Cast Iron 254T frames and up

## NAMEPLATE

Laser etched and easy to read, stainless steel for corrosion resistance

## UMBRELLA SEAL

Fits over V-Ring Slinger to provide IP55 Protection from water and other contaminants

## FAN

Made of rigid thermoplastic, non-sparking and resistant to environment conditions and ensure low noise operation

## LIFTING LUGS

Made of forged steel on all motors 184T frame and up. Multiple lugs available based on mounting configuration

## PERMANENTLY SEALED

and Lubricated bearing provide maintenance free long life

## FRAME

Made of high grade FC-200 cast iron for maximum cooling. Includes additional grounding lug and external epoxy paint

## CONDUIT BOX

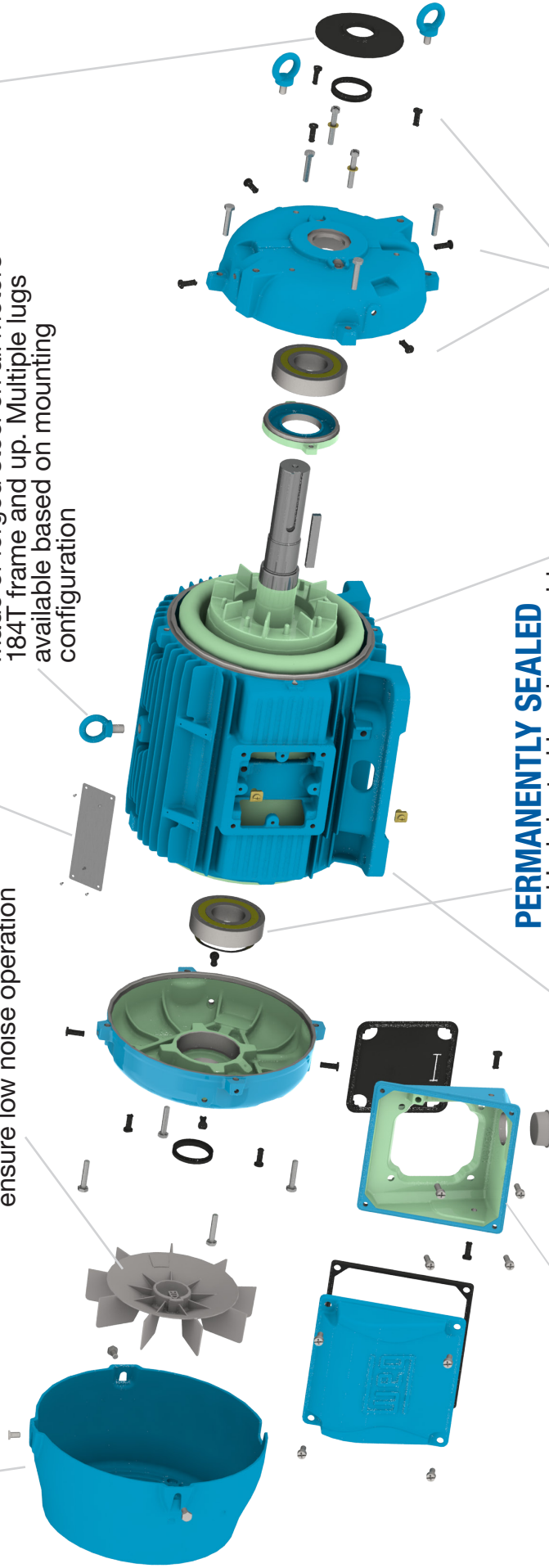
Fully Gasketed, Cast Iron conduit box includes drainplugs, lead separator gasket and internal epoxy coating

## INTERNAL EPOXY COATING

Entire interior of the motor is coated with epoxy for maximum moisture/corrosion resistance

## DRAIN PLUGS

Located every 90 degrees and on the face of each endshield. Easy to open and accommodates all mounting configurations



WEG's scope of solutions is not limited to the products and solutions presented in this brochure.


**Contact WEG for information on additional products and solutions.**

**For WEG's worldwide  
operations visit our website**



**[www.weg.net](http://www.weg.net)**



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Information contained herein is subject to change without notice.