W22 Cooling Tower

NEMA Premium® Efficiency Motors
1-100HP, 1800, 1200, 1800/900 & 1200/900 RPM
Single Speed & 2-speed

- Cooling Tower
- Evaporative Condensers
- Chemical plants
- Pulp and paper mills
- Pumps
- Fans
- Packaging equipment
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
- 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’ (80ºC) Temperature rise at full load for longer life
- Continuous duty (S1)
- NPT threaded, Cast Iron terminal box rotatable in 90º 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.
WEG W22 Cooling Tower Duty Motors

**FAN COVER**
Steel covers on 143T through 215T and Cast Iron 254T frames and up.

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

**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.

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

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

**PERMANENTLY SEALED**
and Lubricated bearing provide maintenance free long life.

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

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

**INTERNAL EPOXY COATING**
Entire interior of the motor is coated with epoxy for maximum moisture/corrosion resistance.
WEG Electric Corp. offers the following products, and more! With a full range of IEC/NEMA Global Certifications and a full line of products, WEG can supply the right solution for your needs anywhere in the world. To learn more about WEG’s products and solutions or to locate a Distributor near you, please call 1-800-ASK-4WEG or visit www.weg.net.

**Low Voltage Motors, Single and 3-Phase, 1/8 – 700HP**
- General Purpose Motors
- Explosion Proof Motors
- Crusher Duty Motors
- IEC Tru-Metric Motors
- Pump Motors including JP/JM
- P-Base Pump Motors
- Oil Well Pumping Motors
- Pool & Spa Motors
- Brake Motors
- Compressor Duty Motors
- Farm Duty Motors
- Poultry Fan Motors
- Auger Drive Motors
- IEEE 841 Motors
- Stainless Steel Wash Down Motors
- Saw Arbor Motors
- Cooling Tower Motors
- Commercial HVAC Motors
- Pad Mounted Motors
- Vector Mounted Motors

**Large Electric Motors**
- Low Voltage 3-phase motors up to 2,500HP
- Motors up to 70,000HP and 13,200V
- Wound Rotor Systems (including starters) up to 70,000HP and 13,200V
- Synchronous Motors up to 70,000HP and 13,200V
- Explosion proof motors (Ex-d) up to 1,500kW and 11kV
- Ex-n, Ex-e, Ex-p motors

**Variable Frequency Drives**
- Low Voltage 1/4 to 2500HP, 230V – 480V
- Medium Voltage 500-8000HP
- Multi-pump systems
- NEMA 4X
- Dynamic braking resistors
- Line and load reactors
- Plug and play technology
- Network communications: ProLibus-DP, DeviceNet, Modbus-RTU
- PLC functions integrated
- Complete line of options and accessories

**Soft Starters**
- 3-1500HP
- Oriented start-up
- Built-in bypass contactor
- Universal source voltage (230-575V, 50/60Hz)
- Network communications: ProLibus-DP, DeviceNet, Modbus-RTU
- Complete Line of options and accessories
- MV Soft-starter 3.3kV, 4.16kV: up to 3500HP, Withdrawable Power Stacks, & 8x PT100 Temperature monitoring

**Controls**
- Mini – Contactors
- IEC Contactors
- Thermal Overload Relays
- Manual Motor Protectors
- Molded Case Circuit Breakers
- Smart Relays
- Enclosed Starters: combination & non-combination,
- Pushbuttons & Pilot Lights
- Timing & Motor Protection Relays
- Terminal Blocks

**Custom Panels**
- Custom configured to your specification.
- NEMA 1, 12, 3R, 4 and 4X cabinets
- Quick delivery of preconfigured drives and soft starters
- UL 508 certified
- Low Voltage (230-460)
- Made in the U.S.A.

**Generators**
- Brushless Synchronous Generators for diesel gen-sets up to 4,200kVA
- Hydro-generators up to 25,000kVA
- Turbo-generators up to 62,500kVA

**Power Transformers**
- Built and engineered in North America
- Voltages < 500kV
- Ratings 5-300MVA
- Station class, oil filled, round core, copper windings
- Special configurations and designs available!
- Ask your WEG Sales Representative for details.
- Designed, built, and engineered to ANSI standards.

**Custom Solution Package Sales**
- WEG can package any of its products for ease of sale! Enjoy a single point of contact for the entire package of products and assistance from quote through after-sales support. Ask your WEG Sales Representative for details.