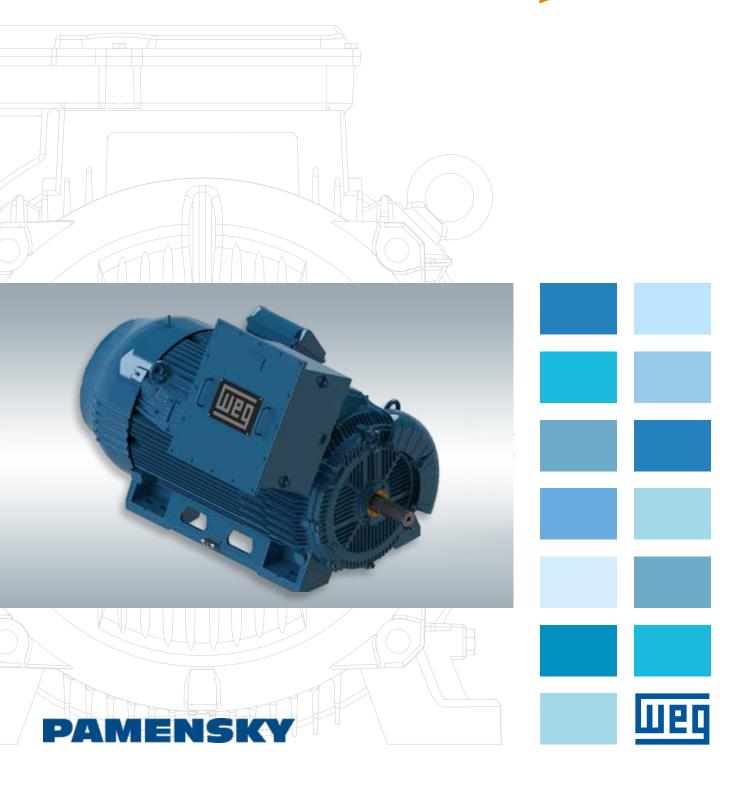
# W50

## Three-phase Electric Motor

Commercial Catalogue NEMA Market







### **Standard Features**

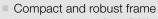
- Rated output: 125HP to 1700HP
- Number of poles: 2 to 12
- Frame sizes: 5009/10 to 7008/09
- Frequency: 60 or 50 Hz
- Voltage: 380 to 6600V
- Service factor: 1,00
- Insulation class: F
- Degree of protection: IP55
- Mounting: F1
- Cooling method: TEFC Totally enclosed fan cooled (IC411)
- Frame, endshields and fan cover: FC-200 cast iron
- Shaft material: AISI 4140
- Thermal protection:
  - Windings: Pt-100 3 wire, 2 per phase
  - Bearings: Pt-100 3 wire, 1 per bearing
- Grease lubricated ball bearings
- Bearing seal: Taconite labyrinth
- Lubrication: Mobil Polyrex EM Grease
- Painting plan: ISO "C5 High" (I and M) corrosive category
- Color: RAL 5009 (Blue)
- Dual Voltage Space Heaters
- Automatic drain plug

### **Optional Features**

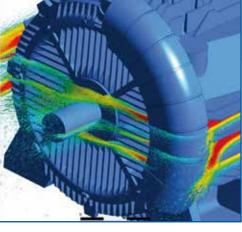
- Other mounting configurations: F2, F3, W11, W12, etc.
- Degree of Protection: IP56, IP65, IP66
- Cooling method: TEBC Totally enclosed blower cooled (IC 416)
- Surrounding muffler
- Service factor: 1.15
- Bearings:
  - Sleeve bearings
  - Insulated drive end bearing for inverter duty applications
  - Cylindrical roller bearing
  - Shaft grounding brush
- Bearings designs for vertical mounting normal and high thrust applications
- Seal: INPRO/SEAL®
- Vibration level: Grade B
- Bearing and winding thermal protection: thermistors or thermostats
- Cable glands
- Drip proof canopy for shaft down applications
- Internal tropicalized painting
- Encoder
- Suitable for VFD applications
- Main terminal box in welded steel
- Additional terminal box: For "Y" connection with access to the neutral terminal
- Non-contact / contact thermometer with gauge
- Stainless steel fasteners



### Features and benefits

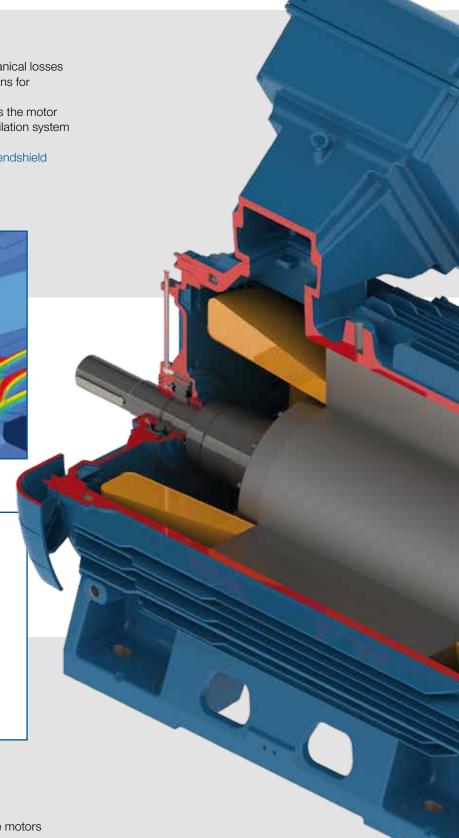


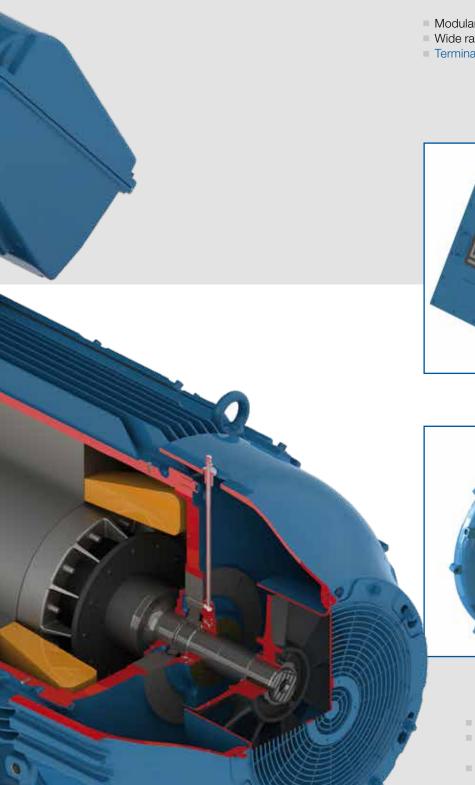
- Low noise levels (82 dB(A) at 3600rpm)
- Optimum efficiencies due to low mechanical losses
- Innovative design of the DE endshield fins for maximum heat dissipation
- Uniform temperature distribution across the motor frame due to the exclusive internal ventilation system
- Easy access to accessories
- State of the art air deflector on the DE endshield ensuring lower bearing temperature



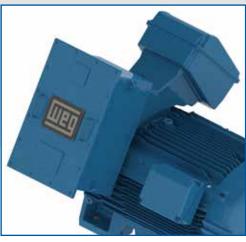


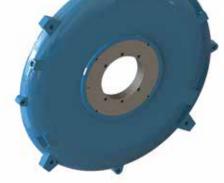
- Suitable for VFD applications
- High output/weight ratio
- Low starting current
- WISE® insulation system for low voltage motors
- VPI insulation system for medium voltage motors





- Modular forced ventilation kit
- Wide range of options and accessories
- Terminal box location on either left or right side





- Insulated NDE endshield for all motors
- Wound stator winding and bearings with temperature sensors
- Low bearing temperatures ensure longer lubrication intervals and extended bearing lifetime
- Low vibration levels ensure longer motor lifetime



### Dedicated W50 lines

The W50 motors also feature a number of definite purpose versions, developed to meet specific industry and application requirements, whilst maintaining the need to provide the best solution for the customer.

### W50 API 541





With safety being of paramount importance, WEG developed the W50Xn (Class I, Division 2) motor line to operate in hazardous areas. This type of protection is applied to electrical equipment which does not cause ignition of an explosive atmosphere under normal operating conditions.

Suitable for operation in hazardous areas classified as Class I, Division 2, Groups B, C and D, Temperature class T3.

### **W50 IEEE 841**

The W50 IEEE841 motors are specially suited for Pulp & Paper mills, Steel mills, Petrochemical Plants and diverse demanding applications requiring severe duty long life motors.

- Internal anticorrosive painting
- Guaranteed foot flatness to within 0.005"
- T-type open drain made of stainless steel 304
- INPRO/SEAL® bearing seal



## WEG Canada / V.J. Pamensky

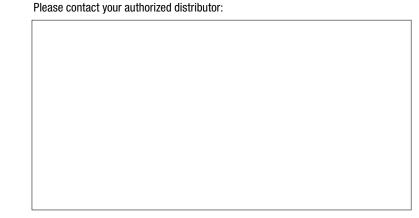


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WEG Canada / V.J. Pamensky offers the following products, and more! With a full range of IEC/NEMA Global Certifications and a full line of products, WEG can supply the right solution for your needs anywhere in the world. To learn more about WEG's products and solutions or to locate a Distributor near you, please call 1-877-PAMENSKY (726-3675) or visit www.wegcanada.

### 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 Duty Motors** 

### **Large Electric Motors**

Low Voltage 3-phase motors up to 2,500HP Induction Motors up to 70,000HP and 13,200V Wound Rotor Systems (including starters) up to 70,000HP and 13,200V Synchronous Motors up to 200,000HP 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 500-10,000HP Multi-pump systems
NEMA 4X
Dynamic braking resistors
Line and load reactors
Plug and play technology
Network communications: Profibus-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: Profibus-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 & noncombination,
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 175,000kVA

### **Power Transformers**

Built and engineered in North America
Voltages < 345kV
Ratings 5-250MVA
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.