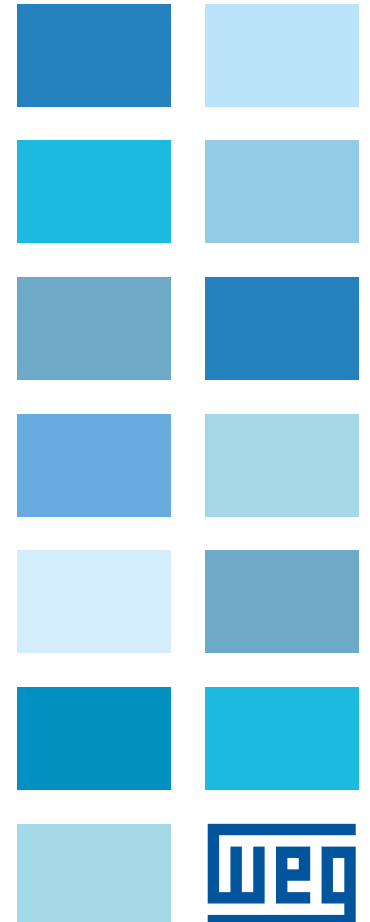
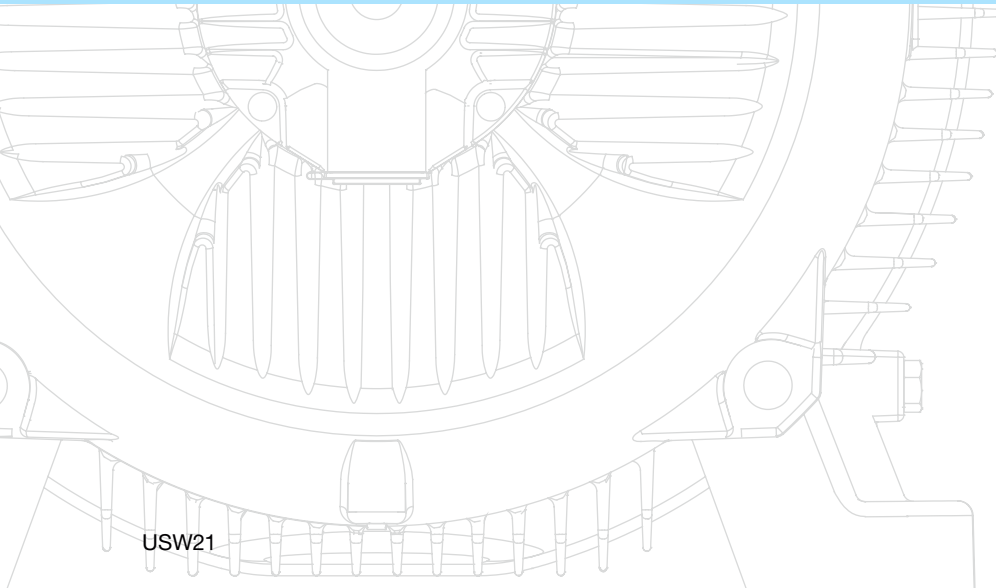
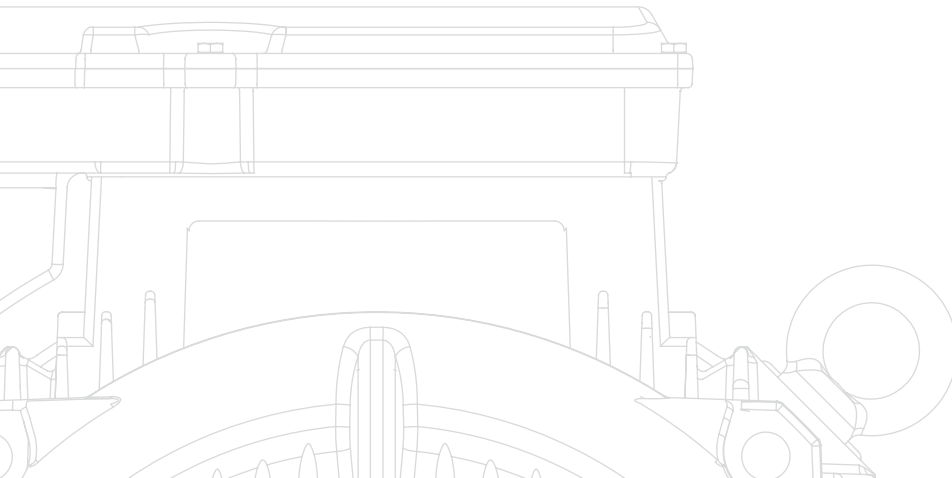


W21 Severe Duty

High Efficiency Motors
NEMA Premium Motors

- TEFC
- Three Phase
- Frames 143T to 586/7
- Cast Iron



TEFC - Three Phase Foot & Flange Mount

W21™ Severe Duty High Efficiency and NEMA Premium™ motors:

- Meet the most demanding severe duty application requirements.
- Cast iron construction.
- Enclosures rated IP55 designed for operation in moist or dusty atmospheric conditions without affecting their useful life.
- Painted with WEG's own special system, using synthetic enamel alkyd resin paints, which exceed the ASTM B117 standard for salt spray test.
- Rated for 1.25 Service Factor up to 100HP.
- Rated for dual frequency and dual voltage (with reduced service factor) up to 60 HP (high efficiency) and 250HP (NEMA Premium).
- Certified Inverter Rated for use with a VFD. This rating meets or exceeds MG1 Part 31 NEMA Specifications.
- Maintain exceedingly high breakdown and locked rotor torque while providing the highest rated efficiency levels.

WEG's W21 Severe Duty High Efficiency motors:

- Meet or exceed all EPAact requirements for energy efficiency as defined by the DOE.
- Efficiency values are certified according to the DOE's regulations (Certificate of Compliance number CC029A).

WEG'S W21 NEMA Premium motors:

- Meet or exceed all NEMA Premium and CEE requirements for energy efficiency.
- Are tested according to IEEE 112 std., method 'B' and their efficiency values are certified by UL Labs (CSA C390) and NEMA Design 'B'.



Standard Features (Frames 143T and up) - Cast Iron

- Efficiency Certification number CC029A according to US Department of Energy Regulations
- Three-phase, II, IV, VI and VIII pole, 60Hz
- Voltage: 208-230/460V, 200V, 460V or 575V
- 50/60Hz rated up to 60HP (High Efficiency) and 250 HP (NEMA Premium)
- Totally Enclosed Fan Cooled - TEFC (IP55) water tight and dust tight enclosure
- V-ring slingers on both endshields (586/7 frame equipped with labyrinth tachonite seal as standard)
- Squirrel cage rotor / Aluminum die cast
- Motors are supplied with ball bearings as standard. Roller bearings models also available
- 1045 heat treated and stress relieved carbon steel shaft
- 4140 steel shaft for frames 404 and up
- Class 'F' insulation for all frames
- Class 'H' impregnation resin
- Temperature rise: Class 'B' (80°C)
- Most ratings meet Design C Torque
- Service Factor: 1.25 up to 100HP 1.15 from 125HP and up
- Continuous duty (S1)
- F1 mounted T-Box (F2 mounting capable)
- Stainless steel nameplate AISI 316 with laser etching
- Paint: Synthetic enamel alkyd resin base (exceeds ASTM B117 salt spray test)
- Color: RAL 5007 (Blue) for High Efficiency and 6002 (Green) for NEMA Premium
- Automatic drain plugs on both end bells - pressure compensated
- Regreasable bearings, positive pressure lubrication system (frames 254T and up)
- Gasketed conduit box
- Inverter Duty: Meet or exceed MGI Part 31 rating for use with VFD at 12:1 (High Efficiency) and 20:1 (NEMA Premium) constant torque speed range, which can be extended with optional Blower Kit
- Class 1, Div 2, Groups B, C, & D, T3C

Optional Features

- Special voltages
- Specially designed shaft
- Space heaters (standard on 586/7 frames)
- Labyrinth taconite seal available for all ratings
- Thermistors, Thermostats or RTD's (PT100)
- Additional terminal box
- Drip cover (canopy) for shaft down applications
- Cable glands
- 'C' and 'D' flanges for all ratings
- Roller bearings on drive end available for larger frames
- Special epoxy painting

Applications

- Pumps
- Fans
- Crushers
- Conveyors
- Machine tools
- Milling applications
- Centrifugal machines
- Presses
- Elevators
- Looms
- Grinders
- Woodworking
- Cooling
- Packaging equipment
- Other Severe Duty applications





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Please contact your authorized distributor:

USW21