



UL Listed

Fire Pump Motors – ODP

Three Phase – Foot Mount and Flange Mount

WEG High Efficiency motors are specifically designed to meet or exceed all EISA 2007 requirements for energy efficiency. They are certified by the Department of Energy with our Certificate of Compliance number CC029A.

These Fire Pump Duty (ODP) motors are designed for environments where dirt and moisture are minimal and provide maximum ventilation and heat dissipation. Design B torque and high efficiency design from 143T through 449T frames.



STANDARD FEATURES

- Efficiency Certification number CC029A according to US Department of Energy Regulations for EISA2007 Efficiency levels
- 2, 4 and 6 pole, 60Hz
- Voltage: 230/460V, 200/400V, 460V or 575V
- Open Drip Proof (ODP)
- NEMA Dimensions
- NEMA design 'B' ratings
- Service Factor: 1.15
- Class 'F' insulation for all frames, Class B rise
- Continuous Duty (S1)
- 104°F (40°C) ambient temperature
- 1045 heat treated and stress relieved carbon steel shaft (4140 for roller bearing motors)
- Motors are supplied with ball bearings as standard.
- F1 mount (also available flanged motors)
- Paint: Enamel alkyd resin base
- Color: Red – RAL3002
- NPT threaded terminal box
- Stainless steel nameplate – laser etched
- 460V Nameplate includes 380V 50Hz 1.15SF @ unless otherwise noted.

OPTIONAL FEATURES

- 50°C ambient
- Cable glands
- Special voltages
- Cast iron NEMA C-Flange or D-Flange (D-Flange only for frames 254T and up)
- Specially designed shaft
- Second shaft end
- Thermistors, thermostats or RTD's (PT100)
- Roller bearings on drive end
- IEC metric frames (on request) for frame 160T up to 280T

Frame – Specific Features

For Frame 143/5T only

- Welded steel plate frames (welded feet)
- Cast iron endshields fixed with through bolt construction
- 'ZZ' bearings (double shielded)
- Degree of protection : IP21

182/4T and 213/5T Frames only

- Aluminum endshields and terminal box
- Cooling system with finned rotor

For Frame 254/6T and Up

- Cast iron frames
- Cast iron endshields and terminal box
- Cooling system with finned rotor
- Regreasable bearings positive pressure lubrication system
- Degree of protection : IP23

Note: All motors are tested according to IEEE 112 std. - Method 'B' or C390 CSA. All WEG motors are energy efficiency verified by UL in addition to the DOE.





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OUTPUT (HP)	FREQUENCY	VOLTAGE	STD. FRAME	WEIGHT	NOISE LEVEL	SERVICE FACTOR	FULL LOAD SPEED	FL AMPS. HIGH VOLTS	ALTITUDE	AMBIENT TEMPERATURE	MOTOR STARTER
15	60 Hz	380V	254T	89.3 kg	66 dB(A)	1.15	3525 rpm	22 A	1000 m	-20°C to +40°C	DOL/YΔ
	50 Hz	380V	254T	81.0 kg	66 dB(A)	1.15	2935 rpm	21.6 A	1000 m	-20°C to +40°C	DOL/YΔ
20	60 Hz	220/380/440V	254T	89.9 kg	66 dB(A)	1.15	3540 rpm	24.6 A	1000 m	-20°C to +40°C	220V YΔ / 380V DOL / 440V DOL
	60 Hz	380V	254T	89.9 kg	66 dB(A)	1.15	3540 rpm	29.4 A	1000 m	-20°C to +40°C	DOL/YΔ
	50 Hz	380V	256T	102 kg	66 dB(A)	1.15	2935 rpm	28.7 A	1000 m	-20°C to +40°C	DOL/YΔ
25	60 Hz	220/380/440V	256T	104 kg	67 dB(A)	1.15	3530 rpm	29.3 A	1000 m	-20°C to +40°C	220V YΔ / 380V DOL / 440V DOL
	60 Hz	380V	256T	104 kg	67 dB(A)	1.15	3530 rpm	35.5 A	1000 m	-20°C to +40°C	DOL/YΔ
	50 Hz	380V	284TS	151 kg	70 dB(A)	1.15	2945 rpm	35.9 A	1000 m	-20°C to +40°C	DOL/YΔ
30	60 Hz	220/380/440V	284TS	146 kg	72 dB(A)	1.15	3540 rpm	34 A	1000 m	-20°C to +40°C	220V YΔ / 380V DOL / 440V DOL
	60 Hz	380V	284TS	146 kg	72 dB(A)	1.15	3540 rpm	41.8 A	1000 m	-20°C to +40°C	DOL/YΔ
	50 Hz	380V	286TS	189 kg	70 dB(A)	1.15	2945 rpm	41.7 A	1000 m	-20°C to +40°C	DOL/YΔ
40	60 Hz	220/380/440V	286TS	163 kg	73 dB(A)	1.15	3535 rpm	44.8 A	1000 m	-20°C to +40°C	220V YΔ / 380V DOL / 440V DOL
	60 Hz	380V	286TS	163 kg	73 dB(A)	1.15	3535 rpm	55.8 A	1000 m	-20°C to +40°C	DOL/YΔ
	50 Hz	380V	324TS	217 kg	72 dB(A)	1.15	2965 rpm	58.7 A	1000 m	-20°C to +40°C	DOL/YΔ
50	60 Hz	220/380/440V	324TS	235 kg	74 dB(A)	1.15	3560 rpm	56.4 A	1000 m	-20°C to +40°C	220V YΔ / 380V DOL / 440V DOL
	60 Hz	380V	324TS	235 kg	74 dB(A)	1.15	3560 rpm	70.7 A	1000 m	-20°C to +40°C	DOL/YΔ
	50 Hz	380V	326TS	256 kg	72 dB(A)	1.15	2965 rpm	71.6 A	1000 m	-20°C to +40°C	DOL/YΔ
60	60 Hz	220/380/440V	326TS	235 kg	75 dB(A)	1.15	3555 rpm	70.6 A	1000 m	-20°C to +40°C	220V YΔ / 380V DOL / 440V DOL
	60 Hz	380V	326TS	235 kg	75 dB(A)	1.15	3555 rpm	85.5 A	1000 m	-20°C to +40°C	DOL/YΔ
	50 Hz	380V	364/5TS	315 kg	78 dB(A)	1.15	2965 rpm	83.5 A	1000 m	-20°C to +40°C	DOL/YΔ
75	60 Hz	220/380/440V	364TS	238 kg	80 dB(A)	1.15	3555 rpm	80.6 A	1000 m	-20°C to +40°C	220V YΔ / 380V DOL / 440V DOL
	60 Hz	380V	364TS	238 kg	80 dB(A)	1.15	3555 rpm	102 A	1000 m	-20°C to +40°C	DOL/YΔ
	50 Hz	380V	364/5TS	374 kg	78 dB(A)	1.15	2965 rpm	101 A	1000 m	-20°C to +40°C	DOL/YΔ
100	60 Hz	220/380/440V	365TS	269 kg	83 dB(A)	1.15	3560 rpm	110 A	1000 m	-20°C to +40°C	220V YΔ / 380V DOL / 440V DOL
	60 Hz	380V	365TS	269 kg	83 dB(A)	1.15	3560 rpm	143 A	1000 m	-20°C to +40°C	DOL/YΔ
	50 Hz	380V	404/5TS	422 kg	81 dB(A)	1.15	2960 rpm	138 A	1000 m	-20°C to +40°C	DOL/YΔ
125	60 Hz	220/380/440V	404TS	404 kg	84 dB(A)	1.15	3560 rpm	132 A	1000 m	-20°C to +40°C	220V YΔ / 380V DOL / 440V DOL
	60 Hz	380V	404TS	404 kg	84 dB(A)	1.15	3560 rpm	172 A	1000 m	-20°C to +40°C	DOL/YΔ
	50 Hz	380V	404/5TS	565 kg	81 dB(A)	1.15	2960 rpm	164 A	1000 m	-20°C to +40°C	DOL/YΔ
150	60 Hz	220/380/440V	405TS	451 kg	84 dB(A)	1.15	3555 rpm	159 A	1000 m	-20°C to +40°C	220V YΔ / 380V DOL / 440V DOL
	60 Hz	380V	405TS	451 kg	84 dB(A)	1.15	3555 rpm	203 A	1000 m	-20°C to +40°C	DOL/YΔ
	50 Hz	380V	444/5TS	685 kg	85 dB(A)	1.15	2975 rpm	202 A	1000 m	-20°C to +40°C	DOL/YΔ
200	60 Hz	220/380/440V	444TS	682 kg	85 dB(A)	1.15	3570 rpm	217 A	1000 m	-20°C to +40°C	220V YΔ / 380V DOL / 440V DOL
	60 Hz	380V	444TS	682 kg	85 dB(A)	1.15	3570 rpm	277 A	1000 m	-20°C to +40°C	DOL/YΔ
	50 Hz	380V	444/5TS	745 kg	85 dB(A)	1.15	2970 rpm	274 A	1000 m	-20°C to +40°C	DOL/YΔ

NOTES:

NEMA Standard

Degree of protection available IP 23 any special degree will be upon request

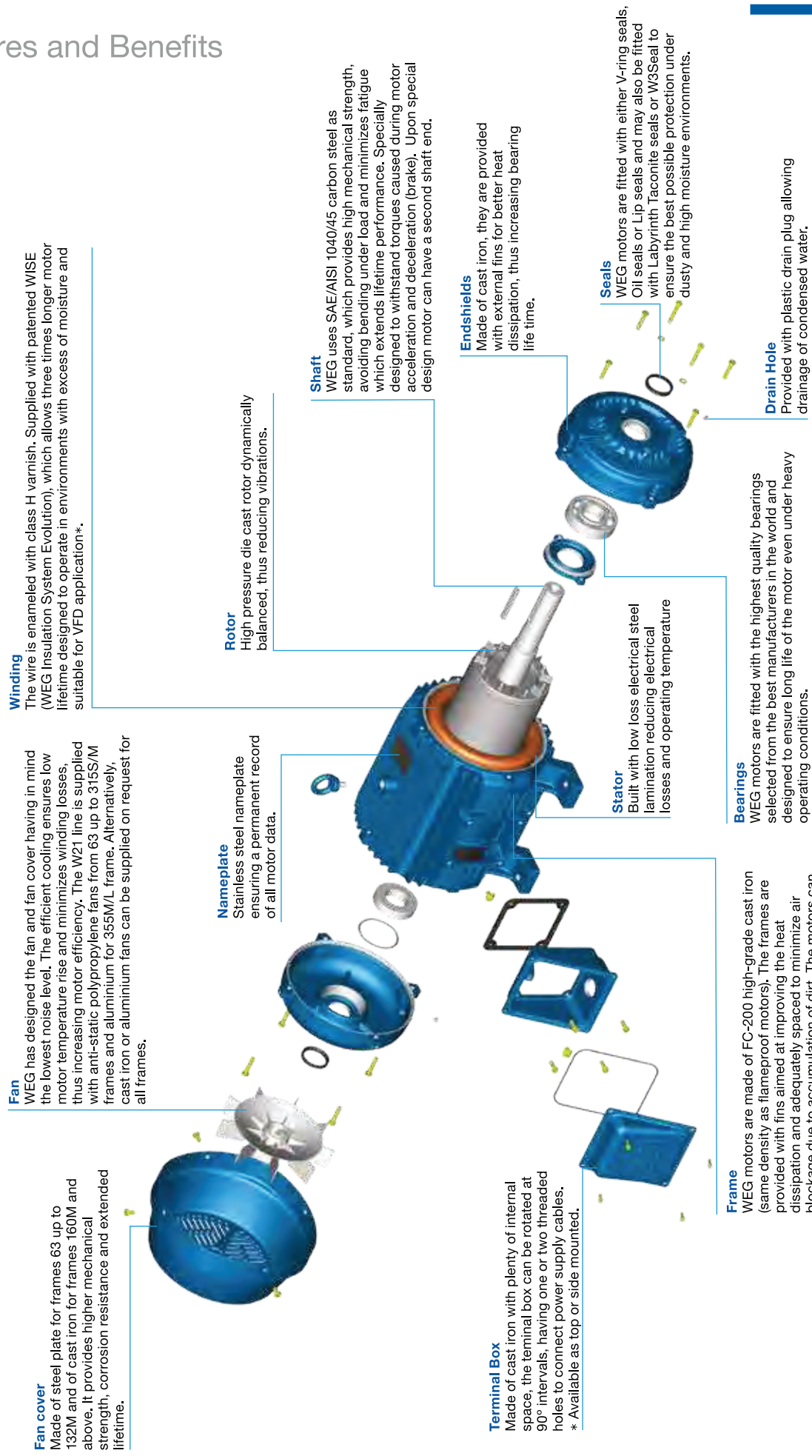
Special voltages are available upon request

Special ambient Temperature available up to 50 deg.+

Note: All motors are tested according to IEEE 112 std. - Method 'B' or C390 CSA. All WEG motors are energy efficiency verified by UL in addition to the DOE.



Features and Benefits



Fan cover
Made of steel plate for frames 63 up to 132M and of cast iron for frames 160M and above. It provides higher mechanical strength, corrosion resistance and extended lifetime.

Fan
WEG has designed the fan and fan cover having in mind the lowest noise level. The efficient cooling ensures low motor temperature rise and minimizes winding losses, thus increasing motor efficiency. The W21 line is supplied with anti-static polypropylene fans from 63 up to 315S/M frames and aluminium for 355M/L frame. Alternatively, cast iron or aluminium fans can be supplied on request for all frames.

Winding
The wire is enameled with class H varnish. Supplied with patented WISE (WEG Insulation System Evolution), which allows three times longer motor lifetime designed to operate in environments with excess of moisture and suitable for VFD application*.

Nameplate
Stainless steel nameplate ensuring a permanent record of all motor data.

Rotor
High pressure die cast rotor dynamically balanced, thus reducing vibrations.

Shaft
WEG uses SAE/AISI 1040/45 carbon steel as standard, which provides high mechanical strength, avoiding bending under load and minimizes fatigue which extends lifetime performance. Specially designed to withstand torques caused during motor acceleration and deceleration (brake). Upon special design motor can have a second shaft end.

Terminal Box
Made of cast iron with plenty of internal space, the terminal box can be rotated at 90° intervals, having one or two threaded holes to connect power supply cables.
* Available as top or side mounted.

Endshields
Made of cast iron, they are provided with external fins for better heat dissipation, thus increasing bearing life time.

Stator
Built with low loss electrical steel lamination reducing electrical losses and operating temperature

Seals
WEG motors are fitted with either V-ring seals, Oil seals or Lip seals and may also be fitted with Labyrinth Taconite seals or W3Seal to ensure the best possible protection under dusty and high moisture environments.

Frame
WEG motors are made of FC-200 high-grade cast iron (same density as flameproof motors). The frames are provided with fins aimed at improving the heat dissipation and adequately spaced to minimize air blockage due to accumulation of dirt. The motors can be mounted in horizontal or vertical positions.

Bearings
WEG motors are fitted with the highest quality bearings selected from the best manufacturers in the world and designed to ensure long life of the motor even under heavy operating conditions.

Drain Hole
Provided with plastic drain plug allowing drainage of condensed water.

* Please refer to page 147: "Rules for motor fed by frequency inverter"



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Fire Pump Motors

UL File Number

EX5990

located on Fire Pump Label

WEG's Fire Pump Motors are UL Listed (UL 1004A) for Fire Pump applications in accordance with NFPA 20. In addition, they feature a Class F insulation system and 1.15 service factor.

**SUITABLE FOR FIRE PUMP APPLICATIONS DRIVEN
BY VFD'S 10:1 SPEED RANGE (6 TO 60 HZ) AND SF 1.15
FIRE PUMP MOTOR**