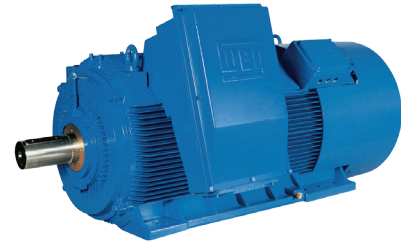


## Medium Voltage Motors Three-Phase - HGF Line - TEFC (IP55)

WEG's medium voltage HGF line is ideal for applications where corrosion, protection is required, such as in waste water treatment plants, cement plants, chemical plants, refineries, etc.

### Standard Features

- 4160 Y, 4160-2300 Y-D Volts
- Bidirectional rotation (except 2 pole)
- DOL Starting, direct coupled
- Horizontal mounting, F1
- Continuous service duty
- Class F insulation
- 80°C by resistance temperature rise at 1.0 service factor
- 80°C by resistance temperature rise at 1.15 service factor
- 40°C ambient
- Up to 3300 ft altitude
- Temperature detector: Pt100, 1 per bearing with 3 wires
- Temperature detector: Pt100, 2 per phase with 3 wires
- Two accessory terminal boxes
- Single phase space heater
- Grounding lug on the frame and terminal box
- Labyrinth tachonite seal (grease lubricated bearings)
- Painting: acrylic polyurethane polyamide epoxy (final coat: Blue RAL 5007)
- Copper bar rotor
- 12/18 month warranty
- Unwitnessed WEG Routine Test report



### Optional Features

- 460, 2300 Y, 6600 Volts
- VFD application
- 1.15 Service factor
- Class H insulation
- High torques
- High inertia capability
- Low starting current
- Ambient temperature above 40°C
- Altitude above 1000 m
- Classified area
- Special balance
- Power factor correction capacitors
- Temperature detector: thermistor (PTC or NTC)
- Temperature detector: thermostat (Bimetallic)
- More than one main terminal box
- Shaft: Special dimensions, double shaft end, tapered, special steel
- Encoder
- Roller Bearings suitable for belt and pulley coupling
- Sleeve bearing
- Special painting
- Cable gland in the terminal box entrance
- Lighting arrestors and surge capacitors
- Vibration detector
- Low noise
- Tachometer
- Bearing thermometer with gauge with/without contacts
- Electrically insulated non-drive end bearing
- Both bearings electrically insulated

Please contact your local WEG Representative for more information.

## Medium Voltage Motors Three-Phase - HGF Line - TEFC (IP55)

HP	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym.	Approx. Shipp. Weight Lbs	FL Amps 2300/4160	FL Eff. %	"C" Dimension (in.)	Voltage V	Notes
200	3600	5009/10/11	20036HGFZ5010S	\$52,649	MAQ1	4000	50.46 / 25.23	93.5	74.435	2300 / 4160	
	1800	5009/10/11	20018HGFZ5011	\$45,124	MAQ1	4000	53.92 / 27.12	93.7	76.173	2300 / 4160	
	1200	5009/10/11	20012HGFZ5011	\$48,667	MAQ1	4000	54.23 / 27.20	92.7	76.173	2300 / 4160	
250	3600	5009/10/11	25036HGFZ5010S	\$53,661	MAQ1	4000	61.15 / 30.33	93.5	74.435	2300 / 4160	
	1800	5009/10/11	25018HGFZ5011	\$47,796	MAQ1	4000	64.28 / 32.23	93.7	76.173	2300 / 4160	
	1200	5009/10/11	25012HGFZ5011	\$52,383	MAQ1	4000	67.78 / 34.08	92.9	76.173	2300 / 4160	
300	3600	5009/10/11	30036HGFZ5010S	\$54,593	MAQ1	5000	72.31 / 36.04	94.0	74.435	2300 / 4160	
	1800	5009/10/11	30018HGFZ5011	\$50,624	MAQ1	5000	77.44 / 38.53	94.0	76.173	2300 / 4160	
	1200	5009/10/11	30012HGFZ5011	\$57,361	MAQ1	5000	81.50 / 41.66	93.3	76.173	2300 / 4160	
350	3600	5009/10/11	35036HGFZ5010S	\$59,055	MAQ1	5000	76.23 / 42.09	95.0	74.435	2300 / 4160	*
	1800	5009/10/11	35018HGFZ5011	\$53,622	MAQ1	5000	79.38 / 44.13	95.0	76.173	2300 / 4160	*
	1200	5009/10/11	35012HGFZ5011	\$63,784	MAQ1	5000	93.34 / 46.72	93.5	76.173	2300 / 4160	
400	900	5810/11/12	35009HGFZ5812	\$81,400	MAQ1	6000	95.20 / 47.65	93.3	84.461	2300 / 4160	
	3600	5009/10/11	40036HGFZ5010S	\$68,379	MAQ1	5000	86.46 / 47.72	95.0	74.435	2300 / 4160	*
	1800	5009/10/11	40018HGFZ5011	\$58,750	MAQ1	6000	90.76 / 50.56	95.0	76.173	2300 / 4160	*
450	1200	5810/11/12	40012HGFZ5812	\$70,779	MAQ1	6000	103.82 / 52.21	94.4	84.461	2300 / 4160	*
	900	5810/11/12	40009HGFZ5812	\$92,204	MAQ1	6000	109.22 / 54.61	93.7	84.461	2300 / 4160	*
	3600	5009/10/11	45036HGFZ5010S	\$71,654	MAQ1	5000	97.91 / 54.28	95.0	74.435	2300 / 4160	*
500	1800	5009/10/11	45018HGFZ5011	\$62,929	MAQ1	6000	101.78 / 56.58	95.0	76.173	2300 / 4160	*
	1200	5810/11/12	45012HGFZ5812	\$77,106	MAQ1	6000	117.44 / 58.09	94.6	84.461	2300 / 4160	*
	900	5810/11/12	45009HGFZ5812	\$97,122	MAQ1	7000	121.46 / 60.73	93.9	84.461	2300 / 4160	
600	3600	5810/11/12	50036HGFZ5812S	\$85,978	MAQ1	6000	107.84 / 59.61	94.5	83.874	2300 / 4160	*
	1800	5009/10/11	50018HGFZ5011	\$66,402	MAQ1	6000	112.90 / 62.66	95.0	76.173	2300 / 4160	*
	1200	5810/11/12	50012HGFZ5810	\$80,512	MAQ1	7000	63.57 / 114.35	95.0	84.461	2300 / 4160	*
700	900	6809/10/11	50009HGFZ6811	\$114,295	MAQ1	8000	133.70 / 66.85	94.6	97.142	2300 / 4160	
	3600	5810/11/12	60036HGFZ5812S	\$90,096	MAQ1	6000	128.99 / 71.32	95.0	83.874	2300 / 4160	*
	1800	5810/11/12	60018HGFZ5812	\$80,142	MAQ1	8000	136.81 / 76.26	95.0	84.461	2300 / 4160	*
800	1200	5810/11/12	60012HGFZ5812	\$85,475	MAQ1	7000	151.70 / 75.48	95.0	84.461	2300 / 4160	
	900	6809/10/11	60009HGFZ6811	\$120,485	MAQ1	8000	158.16 / 79.08	94.8	97.142	2300 / 4160	
	3600	5810/11/12	70036HGFZ5812S	\$92,135	MAQ1	7000	149.42 / 82.59	95.5	83.874	2300 / 4160	*^
900	3600	6809/10/11	70036HGFZ6811S	\$125,386	MAQ1	8000	170.44 / 85.22	95.5	97.565	2300 / 4160	*
	1800	5810/11/12	70018HGFZ5811	\$83,186	MAQ1	8000	156.58 / 86.99	95.5	84.461	2300 / 4160	*
	1200	5810/11/12	70012HGFZ5812	\$113,093	MAQ1	7000	177.10 / 88.06	95.2	84.461	2300 / 4160	
1000	900	6809/10/11	70009HGFZ6811	\$127,802	MAQ1	9000	183.96 / 105.87	95.0	97.142	2300 / 4160	
	3600	6809/10/11	80036HGFZ6811S	\$131,984	MAQ1	8000	178.94 / 99.06	95.5	97.565	2300 / 4160	*
	1800	6809/10/11	80018HGFZ6811	\$95,556	MAQ1	8000	178.63 / 99.25	95.5	97.142	2300 / 4160	*
1250	1200	6809/10/11	80012HGFZ6811	\$122,968	MAQ1	8000	203.14 / 101.74	95.3	97.142	2300 / 4160	
	900	6809/10/11	80009HGFZ6811	\$141,534	MAQ1	9000	211.76 / 105.88	95.4	97.142	2300 / 4160	
	3600	6809/10/11	90036HGFZ6811S	\$138,386	MAQ1	8000	220.68 / 110.34	95.5	97.565	2300 / 4160	*
1500	1800	6809/10/11	90018HGFZ6811	\$105,587	MAQ1	8000	224.06 / 112.03	95.7	97.142	2300 / 4160	
	1200	6809/10/11	90012HGFZ6811	\$133,707	MAQ1	9000	226.05 / 113.14	95.5	97.142	2300 / 4160	
	3600	6809/10/11	100036HGFZ6811S	\$145,689	MAQ1	9000	244.44 / 122.22	95.5	97.565	2300 / 4160	*
2000	1800	6809/10/11	100018HGFZ6811	\$116,669	MAQ1	9000	243.68 / 121.84	95.7	97.142	2300 / 4160	
	1200	6809/10/11	100012HGFZ6811	\$140,393	MAQ1	10000	225.9 / 125.81	95.7	97.142	2300 / 4160	
	3600	6809/10/11	125036HGFZ6811S	\$153,519	MAQ1	9000	304.56 / 152.28	95.5	97.565	2300 / 4160	
2500	1800	6809/10/11	125018HGFZ6811	\$130,609	MAQ1	9000	306.14 / 153.07	95.7	97.142	2300 / 4160	

**Notes:**

Motor components are stocked for flexibility and quick shipment.

\* Select standard ratings are normally available with a 10 week lead time to WEG Houston Warehouse.

^ 82°C rise by resistance at 1.0 SF.

Pricing is F.O.B. WEG Houston Warehouse.

SAW ARBOR

HYDRAULIC PUMP

IE2 IEC TRU-METRIC

ATEX MOTORS

PARTS AND MODIFICATIONS

ELECTRICAL DATA

MECHANICAL DATA

MEDIUM VOLTAGE MOTOR

CATALOG INDEX

## TEFC - MEDIUM VOLTAGE

### Electrical Data

TEFC (IP55) - Three-phase

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current In (A)		Locked Rotor Current		Full Load Torque T <sub>n</sub> (lb.ft)	Locked Rotor Torque (T <sub>l</sub> /T <sub>n</sub> )	Break Down Torque (T <sub>b</sub> /T <sub>n</sub> )	Efficiency - 4160V			Power Factor Cos - 4160V			Moment of Inertia WK <sub>2</sub> (lb.ft <sup>2</sup> )	Approx. Weight (lb)	Approx. Sound dB(A)
HP	kW			At 2300V	At 4160V	(kVA Code)	(I <sub>l</sub> /I <sub>n</sub> )				% of full load								
											50	75	100	50	75	100			
200	149.2	3600	5009/10/11	44.98	24.90	G / H	6.0 / 6.6	294	1.10 / 1.20	2.30 / 2.30	91.8	92.0	92.2	0.82	0.86	0.88	85.43	4000	79
		1800	5009/10/11	53.92	27.12	G / G	6.4 / 6.7	586	1.10 / 1.20	2.30 / 2.50	93.8	94.0	94.2	0.75	0.83	0.85	119.55	4000	79
		1200	5009/10/11	54.23	26.41	G / H	6.6 / 7.3	663	1.10 / 1.20	2.20 / 2.40	92.8	93.0	93.2	0.68	0.80	0.82	212.72	4000	77
250	186.5	3600	5009/10/11	61.15	30.33	G / G	6.3 / 6.5	366	0.90 / 1.10	2.30 / 2.50	93.9	94.1	94.3	0.80	0.84	0.86	84.31	4000	79
		1800	5009/10/11	64.28	32.23	G / G	6.4 / 6.40	734	1.10 / 1.20	2.30 / 2.50	93.8	94.0	94.2	0.78	0.84	0.86	135.05	4000	79
		1200	5009/10/11	67.78	34.08	G / H	6.7 / 7.5	1110	1.10 / 1.20	2.20 / 2.40	93.0	93.2	93.4	0.68	0.80	0.82	225.41	4000	77
300	223.8	3600	5009/10/11	72.31	36.04	G / G	6.7 / 6.9	443	1.10 / 1.20	2.30 / 2.50	94.1	94.3	94.5	0.82	0.86	0.88	100.00	5000	79
		1800	5009/10/11	77.44	38.53	G / G	6.8 / 6.8	886	1.10 / 1.20	2.30 / 2.50	94.0	94.2	94.4	0.80	0.86	0.88	142.81	5000	79
		1200	5009/10/11	81.50	41.66	G / H	6.5 / 7.5	978	1.10 / 1.20	2.20 / 2.40	93.4	93.6	93.8	0.68	0.80	0.82	259.23	5000	77
350	261.1	3600	5009/10/11	76.23	42.09	F / G	5.93 / 6.46	514	0.90 / 1.00	2.00 / 2.25	93.9	94.5	95.0	0.88	0.91	0.91	100.00	5000	79
		1800	5009/10/11	79.38	44.13	G / G	6.20 / 6.80	1029	1.00 / 1.20	2.40 / 2.70	94.1	94.8	95.0	0.77	0.84	0.87	176.77	5000	79
		1200	5009/10/11	93.34	46.72	G / H	6.4 / 7.5	1145	1.10 / 1.20	2.20 / 2.40	93.6	93.8	94.0	0.68	0.80	0.82	301.49	5000	79
400	298.4	900	5810/11/12	95.20	47.65	G / G	6.1 / 6.5	1516	0.80 / 0.90	1.60 / 1.80	94.1	94.3	94.5	0.68	0.79	0.81	413.95	6000	79
		3600	5009/10/11	86.46	47.72	F / G	6.20 / 6.85	590	0.90 / 1.10	2.20 / 2.45	94.2	94.9	95.0	0.87	0.91	0.91	105.22	5000	79
		1800	5009/10/11	90.76	50.10	G / G	6.20 / 6.80	1173	1.07 / 1.20	2.40 / 2.65	94.3	94.9	94.8	0.76	0.84	0.86	176.77	6000	79
		1200	5810/11/12	103.82	52.21	G / G	6.1 / 6.7	1311	1.10 / 1.20	2.30 / 2.50	94.6	94.8	95.0	0.70	0.81	0.83	277.05	6000	79
450	335.7	900	5810/11/12	109.22	54.61	G / G	6.0 / 6.5	1752	0.80 / 0.90	1.60 / 1.80	94.5	94.7	94.9	0.68	0.79	0.81	413.95	6000	79
		3600	5009/10/11	97.91	54.28	G / G	6.54 / 7.17	659	0.95 / 1.05	2.25 / 2.50	94.3	95.0	95.0	0.84	0.90	0.90	103.68	5000	79
		1800	5009/10/11	101.78	56.60	G / G	6.19 / 6.80	1330	1.05 / 1.20	2.30 / 2.55	94.5	95.2	95.0	0.77	0.84	0.86	189.68	6000	79
		1200	5810/11/12	117.44	57.50	G / G	6.3 / 6.9	1980	1.10 / 1.10	2.30 / 2.30	94.0	94.2	94.4	0.80	0.82	0.84	337.02	6000	79
500	373	900	5810/11/12	121.46	60.73	G / G	6.2 / 6.7	1956	0.80 / 0.90	1.60 / 1.80	94.2	94.4	94.6	0.68	0.79	0.81	441.03	7000	79
		3600	5810/11/12	107.84	59.61	G / G	6.52 / 7.12	741	0.95 / 1.05	2.45 / 2.65	93.3	94.5	94.6	0.87	0.91	0.91	148.77	6000	86
		1800	5009/10/11	112.9	62.66	F / G	5.58 / 6.16	1474	1.05 / 1.20	2.30 / 2.55	94.8	95.3	95.0	0.79	0.86	0.87	189.67	6000	83
		1200	5810/11/12	114.35	63.57	F / G	5.89 / 6.44	2207	1.05 / 1.20	2.40 / 2.70	94.8	95.0	94.9	0.74	0.83	0.86	310.08	7000	81
600	447.6	900	6809/10/11	117.17	65.60	G / H	6.41 / 6.4	2966	1.10 / 1.20	2.30 / 2.20	94.4	94.6	94.8	0.79	0.81	0.83	728.64	8000	79
		3600	5810/11/12	128.99	71.32	G / H	6.76 / 7.40	883	1.00 / 1.10	2.50 / 2.75	93.9	94.9	95.0	0.86	0.90	0.91	159.68	6000	86
		1800	5810/11/12	136.81	76.26	G / H	6.37 / 6.90	1772	1.13 / 1.25	2.50 / 2.75	94.1	95.1	95.2	0.74	0.83	0.86	307.59	8000	83
		1200	5810/11/12	151.70	75.48	G / G	6.4 / 6.8	1957	1.10 / 1.20	2.30 / 2.50	95.2	95.4	95.6	0.70	0.81	0.83	390.32	7000	81
700	522.2	900	6809/10/11	140.23	78.50	G / H	5.8 / 6.3	3528	1.10 / 1.20	2.10 / 2.20	94.6	94.8	95.0	0.80	0.82	0.84	783.27	8000	79
		3600	5810/11/12	154.98	85.64	G / G	6.0 / 6.5	1026	0.80 / 0.80	1.80 / 2.00	94.9	95.1	95.3	0.84	0.86	0.88	225.77	8000	86
		1800	6809/10/11	170.44	85.22	G / H	6.70 / 7.41	1031	0.80 / 0.90	2.20 / 2.40	95.0	95.3	95.5	0.85	0.81	0.89	259.85	8000	89
		1200	5810/11/12	177.10	88.06	G / G	6.2 / 6.6	2283	1.10 / 1.20	2.30 / 2.50	94.7	95.4	95.4	0.77	0.85	0.87	329.12	8000	83
800	596.8	900	6809/10/11	168.04	95.00	G / H	6.1 / 6.5	4136	1.10 / 1.20	1.80 / 2.00	94.6	94.8	95.0	0.77	0.79	0.81	955.93	8000	79
		3600	6809/10/11	178.94	99.06	G / G	6.39 / 7.01	1183	0.90 / 1.00	2.25 / 2.40	92.0	94.0	94.0	0.84	0.88	0.89	320.24	8000	89
		1800	6809/10/11	178.63	99.25	F / G	6.16 / 6.73	2362	1.10 / 1.30	2.35 / 2.60	95.4	95.8	95.9	0.78	0.85	0.87	388.68	8000	83
		1200	6809/10/11	183.74	102.90	G / G	6.1 / 6.6	3543	1.00 / 1.10	2.10 / 2.30	95.1	95.3	95.5	0.81	0.83	0.85	547.32	8000	81
900	671.4	900	6809/10/11	188.66	106.10	G / H	6.3 / 6.9	4722	1.10 / 1.20	2.20 / 2.40	94.9	95.1	95.3	0.78	0.80	0.82	1011.15	9000	79
		3600	6809/10/11	197.32	108.80	G / H	6.3 / 6.9	1319	0.80 / 1.00	1.90 / 2.30	95.3	95.5	95.7	0.85	0.87	0.89	278.07	9000	89
		1800	6809/10/11	203.26	113.30	G / H	6.2 / 6.7	2641	1.00 / 1.10	2.10 / 2.30	95.5	95.7	95.9	0.82	0.84	0.86	418.3	9000	83
1000	746	1200	6809/10/11	203.78	114.10	G / G	8.2 / 8.8	3942	1.30 / 1.40	3.00 / 3.20	95.3	95.5	95.7	0.81	0.83	0.85	624.7	9000	81
		3600	6809/10/11	218.05	121.00	G / H	6.3 / 6.9	1480	0.80 / 0.90	1.90 / 2.00	95.4	95.6	95.8	0.85	0.87	0.89	318.32	9000	89
		1800	6809/10/11	227.85	127.90	G / H	6.10 / 6.6	2948	0.90 / 1.00	2.10 / 2.30	95.6	95.8	96.0	0.80	0.82	0.84	444.97	9000	83
1250	932.5	1200	6809/10/11	230.41	129.30	G / G	6.1 / 6.6	4427	0.90 / 1.00	2.10 / 2.40	95.3	95.5	95.7	0.80	0.82	0.84	659.61	10000	81
		3600	6809/10/11	273.16	151.20	G / H	6.4 / 7.0	1831	0.80 / 0.90	2.00 / 2.20	95.6	95.8	96.0	0.85	0.87	0.89	376.10	9000	89
1800	6809/10/11	284.33	158.20	G / H	5.7 / 6.3	3671	0.90 / 1.00	1.90 / 2.20	95.6	95.8	96.0	0.81	0.83	0.85	497.53	9000	83		

## TEFC - MEDIUM VOLTAGE

### Mechanical Data

TEFC (IP55) - Three-phase

	FRAME	2E	J	a	P	AB	DQ	2F	K	FK	B	EV	BA	C	D	G	O	T
NEMA	5006/7/8TS	20.000	7.087	24.725	27.559	37.795	15.748	20.000	7.087	10.237	30.315	2.677	8.500	62.624	12.500	1.968	26.279	40.394
	5006/7/8T							22.000						64.370				
	5009/10/11TS							25.000						74.435				
	5009/10/11T	20.000	7.087	24.725	27.559	37.795	15.748	28.000	7.874	13.386	41.339	3.150	10.000	76.173	14.500	2.492	29.854	43.543
	5807/8/9TS							32.000						72.073				
	5807/8/9T							36.000						72.650				
	5810/11/12TS	23.000	9.055	29.528	30.709	38.976	16.929	40.000	8.661	14.961	51.181	3.150	11.500	83.884	17.000	3.220	34.520	47.480
	5810/11/12T							45.000						84.461				
	6806/7/8TS							28.000						85.754				
	6806/7/8T	27.000	8.583	33.071	35.039	40.394	18.504	32.000	8.661	14.173	42.126	3.150	11.500	85.331	17.000	3.220	34.520	47.480
	6809/10/11TS							36.000						97.565				
	6809/10/11T							40.000						97.142				
							45.000	50.000										

Terminal Box dimensions given are for dual voltage terminal boxes - single voltage motors will have smaller terminal boxes.

## TEFC - MEDIUM VOLTAGE

### Mechanical Data

TEFC (IP55) - Three-phase

	FRAME	T	U	N-W	ES	N	S	R	GD	H	H'	DS	AA	DM	D.E	N.D.E
NEMA	5006/7/8TS	40.394	2.375	4.750	4.330	0.197	0.625	2.021	0.625	1.181	1.575	UNC 3/4"	1 x NPT 3"	3 x NPT 3/4"	6314	6314
	5006/7/8T		3.625	10.625	9.055		0.875	3.134	0.875			UNC 7/8"			6320	6316
	5009/10/11TS		2.375	4.750	4.330		0.625	2.021	0.625			UNC 3/4"			6314	6314
	5009/10/11T	43.543	3.625	10.625	9.055	0.197	0.875	3.134	0.875	1.181	1.968	UNC 7/8"	1 x NPT 3"	3 x NPT 3/4"	6320	6316
	5807/8/9TS		2.375	4.750	4.330		0.625	2.021	0.625			UNC 3/4"			6314	6314
	5807/8/9T		3.875	11.625	9.842		1.000	3.309	1.000			UNC 7/8"			6322	6320
	5810/11/12TS	47.480	2.375	4.750	4.330	0.197	0.625	2.021	0.625	1.417	2.205	UNC 3/4"	1 x NPT 3"	3 x NPT 3/4"	6314	6314
	5810/11/12T		3.875	11.625	9.842		1.000	3.309	1.000			UNC 7/8"			6322	6320
	6806/7/8TS		2.750	5.750	4.330		0.625	2.402	0.625			UNC 3/4"			6315	6315
	6806/7/8T	47.480	4.375	11.625	9.842	0.197	1.000	3.817	1.000	1.417	2.205	UNC 1"	1 x NPT 3"	3 x NPT 3/4"	NU224	6320
	6809/10/11TS		2.750	5.750	4.330		0.625	2.402	0.625			UNC 3/4"			6315	6315
	6809/10/11T		4.375	11.625	9.842		1.000	3.817	1.000			UNC 1"			NU224	6320

