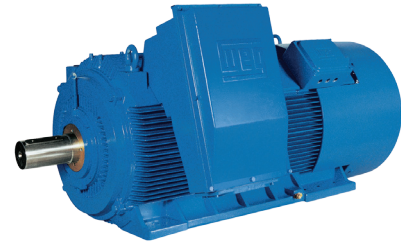


Medium Voltage Motors Three-Phase - HGF Line - TEFC (IP55)



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 _n (lb.ft)	Locked Rotor Torque (T _l /T _n)	Break Down Torque (T _b /T _n)	Efficiency - 4160V			Power Factor Cos - 4160V			Moment of Inertia WK2 (lb.ft ²)	Approx. Weight (lb)	Approx. Sound dB(A)
HP	kW			At 2300V	At 4160V	(kVA Code)	(ll/ln)				% 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				
							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

