Industrial Motors

Commercial &
Appliance Motors

Automation

Digital &
Systems

Energy

Transmission &
Distribution

Coatings

Vertical High Thrust

Modular Vertical Solution

Driving efficiency and sustainability

VERTICAL
High Thrust

Performance
taken to a

HIGHER
LEVEL

VERTICAL
High Thrust

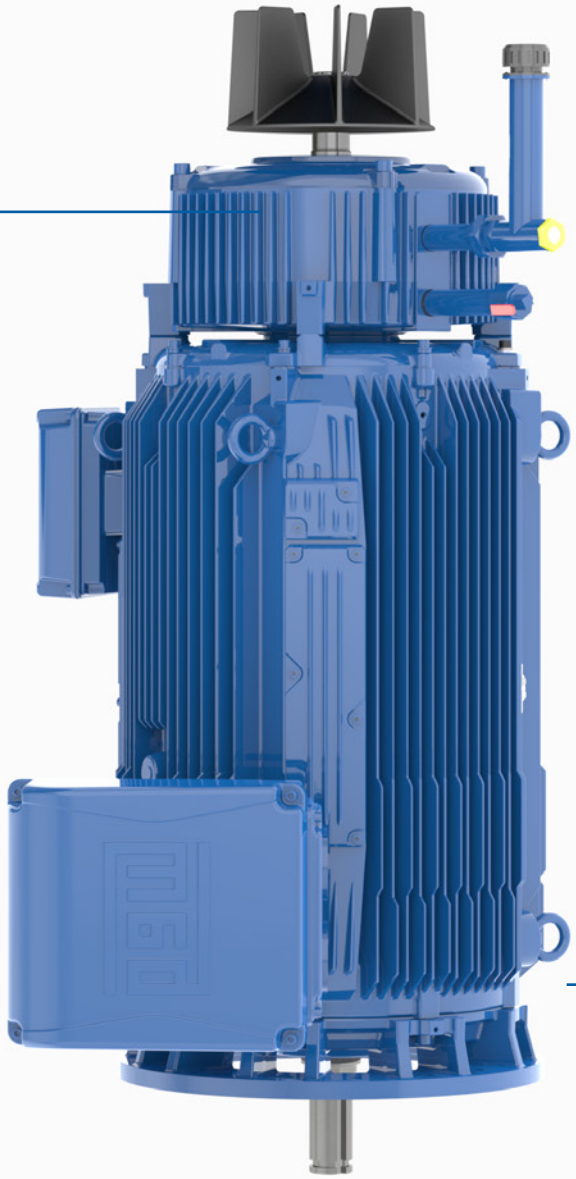
High levels of power and performance associated with high load capacity. So is **VERTICAL** High Thrust.

A **compact and reliable** motor, made with an exclusive modular oil reservoir that facilitates operation, decreases bearing temperature, reduces the need for maintenance, and extends service life.

Optimize space in your plant with a solution that carries all the quality and efficiency of WEG.

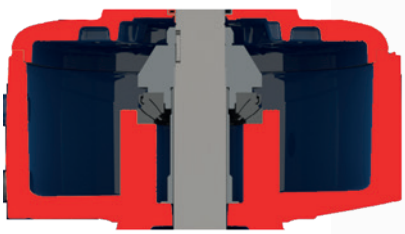
- Compact format
- Modular oil reservoir
- Available in solid or hollow shaft
- Optimized cooling system

1. Product Details

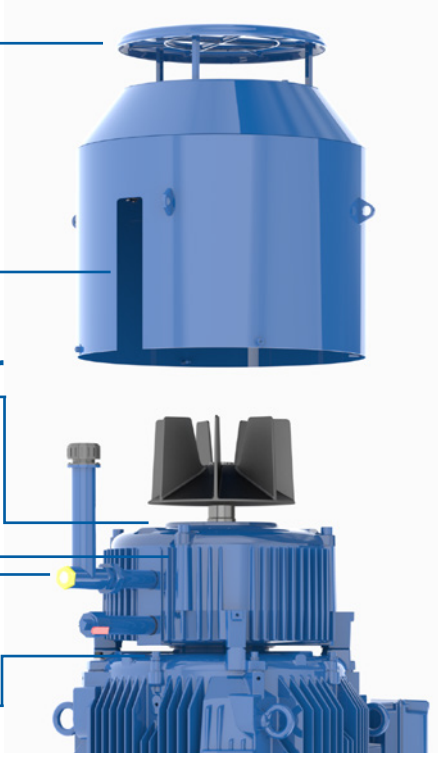


Modular oil reservoir

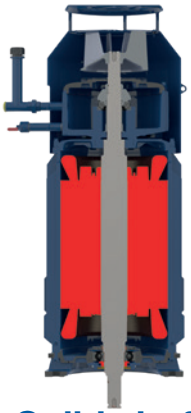
The Vertical High Thrust motor has as differential modular oil reservoir, which makes the operation more practical, helps to lower the bearing temperature and provides a significant power gain. This unique feature, in addition to facilitating and reducing the need for constant maintenance, also extends the life of the motor.



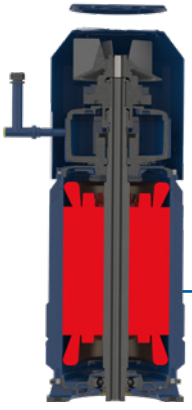
Optimized cooling system



Available in solid or hollow shaft

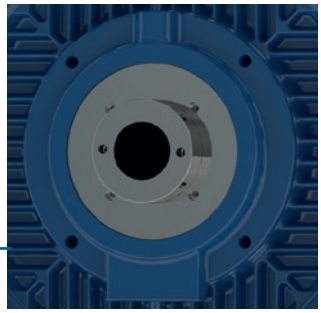


Solid shaft



Hollow shaft

Steady Bushings for Hollow shaft motors



2. Standard thrust levels

High-axial thrust bearings can be used for motors with speeds up to 1800 RPM. Oil bath lubrication system is simple and robust. The non-drive-end bearings lubricated in this way have good heat dissipation performance and low bearing temperature under adverse service conditions. For this application, the standard bearing life is according to Table 1 and Table 2. In this case, anti-rotation ratchet system can be supplied optionally. The Table 1 and Table 2 show the maximum allowable axial thrust for each frame size.

Table 1 - Bearings and thrust level for vertical solid shaft motors

Frame		Pole	Thrust Bearing	Thrust Level [lb]	Speed [rpm]	L10h
NEMA	IEC					
50	315	4	29322	8992	1800	40.000
50	315	6	29322	11240	1200	40.000
50	315	8	29322	12364	900	40.000
50	315	10	29322	12364	720	40.000
50	315	12	29322	12364	600	40.000
58	355	4	29324	9600	1800	40.000
58	355	6	29324	11100	1200	40.000
58	355	8	29324	12250	900	40.000
58	355	10	29324	12250	720	40.000
58	355	12	29324	12250	600	40.000
68	400	4	29324	11240	1800	20.000
68	400	6	29324	13100	1200	20.000
68	400	8	29324	14350	900	20.000
68	400	10	29324	14350	720	20.000
68	400	12	29324	14350	600	20.000
70	450	4	29324	11240	1800	20.000
70	450	6	29324	13100	1200	20.000
70	450	8	29324	14350	900	20.000
70	450	10	29324	14350	720	20.000
70	450	12	29324	14350	600	20.000

Table 2 - Bearings and thrust level for vertical hollow shaft motors

Frame		Pole	Thrust Bearing	Thrust Level [lb]	Speed [rpm]	L10h
NEMA	IEC					
50	315	4	29324	9600	1800	40.000
50	315	6	29324	11100	1200	40.000
50	315	8	29324	12250	900	40.000
50	315	10	29324	12250	720	40.000
50	315	12	29324	12250	600	40.000
58	355	4	29324	9600	1800	40.000
58	355	6	29324	11100	1200	40.000
58	355	8	29324	12250	900	40.000
50	315	10	29324	12250	720	40.000
50	315	12	29324	12250	600	40.000
68	400	4	29326	11240	1800	20.000
68	400	6	29326	13100	1200	20.000
68	400	8	29326	14350	900	20.000
68	400	10	29326	14350	720	20.000
68	400	12	29326	14350	600	20.000
70	450	4	29328	11240	1800	20.000
70	450	6	29328	13100	1200	20.000
70	450	8	29328	14350	900	20.000
70	450	10	29328	14350	600	20.000
70	450	12	29328	14350	720	20.000

Notes:
- The maximum instantaneous upward thrust is 30% of the maximum pulling force.
- All bearings are self-cooled.
- Consult WEG for higher load/speed requirements.

When special bearing life or higher axial loads are required, please contact WEG.

3. Construction Features

Frame			5009/10	5809/10	6806/07	6808/09	7006/07	7008/09
Mechanical features								
Mounting			W12 / V1					
Frame material			Cast Iron FC-200					
Degree of protection			IP55					
Grounding			Double grounding (1 terminal box + 1 frame)					
Cooling method			TEFC (IC-411)					
Fan material	Solid shaft		Cast Iron FC-200					
	Hollow shaft		Aluminum					
Fan cover material			Steel					
Endshields material			Cast Iron FC-200					
Drain plug			Automatic IP66 drain plug					
Rolling bearings (Solid shaft)	Shielded/clearance DE		C3				M-C3	
	Shielded/clearance NDE		C3					
	Locating bearing		Preload spring DE and NDE fixed with KMT nut.					
	Bearing life		40.000		20.000			
	Drive end		6320	6322	6324	6324	6328	6328
	Non-drive end		29322					
Rolling bearings (Hollow shaft)	Shielded/clearance DE		C3				M-C3	
	Shielded/clearance NDE		C3					
	Locating bearing		Preload spring DE and NDE fixed with KMT nut.					
	Bearing life		40.000		20.000			
	Drive end		6320	6322	6324	6324	6328	6328
	Non-drive end		29324	29324	29326	29326	29328	29328
DE Bearing seal			Taconite Labyrinth					
NDE Bearing seal			Oil seal with spring					
Lubrification	Type of grease		Mobil Polyrex EM					
	Type of oil		ISO VG 150					
	Grease fitting	DE	With grease fitting					
		NDE	Inlet through vent / Outlet with globe valve					
Terminal box material			Cast Iron FC-200					
Additional temrinal box			Optional for Neutral Point in separated terminal box					
Lead inlet	Main		2 x NPT 3"	2 x NPT 3"				
	Additional		3 x NPT 3/4"					
	Plug		Plastic plug					
Shaft	Material		AISI 4140					
	Threaded hole	Solid shaft	UNC 7/8"					
		Hollow shaft	2.19" (60 mm)					
Shaft key (solid shaft)			B key					
Vibration level			Grade A					
Balancing		Solid shaft	With 1/2 Key					
		Hollow shaft	Without Key					
Nameplate material			Laser printed aluminium					
Painting	Type		214P					
	Color		RAL5009					
Electrical features								
Design			Design A: Low Voltage Motors up to 500 HP 4 Poles, 350 HP 6 Poles, 250 HP 8 Poles, 200 HP 10 Poles and 150 HP 12 Poles High Voltage Motors - not applicable					
Voltage			380 V a 6,600 V					
Winding	Impregnation		Low voltage - resin continuous flow / high voltage - VPI					
	Insulation class		F (DT 80K)					
Space heater	Safe area		110-127 / 200-240 V					
	Hazardous area		200 - 240 V					
Service factor			1.00					
Ambient temperature	Maximum		+40 °C					
	Minimum		0 °C					
Starting method			DOL					
Winding thermal protection			Pt-100 - 3 wires (2 per phase)					
Bearing thermal protection			Pt-100 - 3 wires (1 per bearing)					

Notes: 1) Other optional features,on request.
2) Some combinations of optional features are not allowed - contact WEG.

4. Optional Features [1) 2)]

Frame		5009/10	5809/10	6806/07	6808/09	7006/07	7008/09
Certification							
CSA Safe Area		SD	SD	SD	SD	SD	SD
CSA Hazardous Area		SD	SD	SD	SD	SD	SD
Marking (Hazardous Area)	Divison 2, Groups A,B,C, D, F and G, Class I and II, T3	SD	SD	SD	SD	SD	SD
	Divison 2, Groups A,B,C, D, F and G, Class I and II, T3C	0	0	0	0	0	0
Mechanical Optionals							
Terminal Box Type							
Steel (Low Voltage)	Safe Area	0	0	SD	SD	SD	SD
Steel (High Voltage)		0	0	0	0	0	0
Cast iron (Low Voltage)		SD	SD	0	0	0	0
Cast iron (High Voltage)		SD	SD	SD	SD	SD	SD
Steel (Low Voltage)	Hazardous Area	SD	SD	SD	SD	SD	SD
Steel (High Voltage)		SD	SD	SD	SD	SD	SD
Cast iron (Low Voltage)		0	0	0	0	0	0
Cast iron (High Voltage)		0	0	0	0	0	0
Cable gland							
Without cable gland		SD	SD	SD	SD	SD	SD
Plastic	Safe Area	0	0	0	0	0	0
	Hazardous Area	NA	NA	NA	NA	NA	NA
Brass		0	0	0	0	0	0
Stainless steel	Safe Area	0	0	0	0	0	0
	Hazardous Area	NA	NA	NA	NA	NA	NA
Mechanical Parts							
Flange P		SD	SD	SD	SD	SD	SD
DE air deflector/baffle		SD	SD	SD	SD	SD	SD
Drip cover/canopy		SD	SD	SD	SD	SD	SD
Terminal block							
Without terminal block	Safe Area	SD	SD	SD	SD	SD	SD
	Hazardous Area	0	0	0	0	0	0
Connection terminal (Low Voltage)	Safe Area	0	0	0	0	0	0
	Hazardous Area	SD	SD	SD	SD	SD	SD
Connection terminal (High Voltage)	Safe Area	0	0	0	0	0	0
	Hazardous Area	SD	SD	SD	SD	SD	SD
Degree of protection							
IP55		SD	SD	SD	SD	SD	SD
IP56		0	0	0	0	0	0
IP65		0	0	0	0	0	0
IP66		0	0	0	0	0	0
Bearing seal							
Taconite labyrinth	DE	SD	SD	SD	SD	SD	SD
	NDE	NA	NA	NA	NA	NA	NA
Nitrillic rubber oil seal	DE	NA	NA	NA	NA	NA	NA
	NDE	SD	SD	SD	SD	SD	SD
Painting plan							
212E		0	0	0	0	0	0
212P		0	0	0	0	0	0
214P		SD	SD	SD	SD	SD	SD
214E		0	0	0	0	0	0
Threaded center hole (shaft)							
Hollow shaft		0	0	0	0	0	0
Solid shaft		SD	SD	SD	SD	SD	SD
DE Bearing Lubrication							
Isoflex NBU 15		0	0	0	0	0	0
Mobil Polyrex EM		SD	SD	SD	SD	SD	SD

Notes: 1) Other optional features, on request;
2) Some combinations of optional features are not allowed - contact WEG;
Legend: SD - Standard / O - Optional / NA - Not Available

4. Optional Features [1) 2)]

Frame	5009/10	5809/10	6806/07	6808/09	7006/07	7008/09
Grease fitting (inlet)						
Carbon steel grease fitting with extending tube	SD	SD	SD	SD	SD	SD
Stainless steel grease fitting with extending tube	O	O	O	O	O	O
Balance Type						
Normal balance with 1/2 key (4 poles and upper)	SD	SD	SD	SD	SD	SD
Normal balance without key	SD	SD	SD	SD	SD	SD
Normal balance with full key	O	O	O	O	O	O
Key						
B Key	SD	SD	SD	SD	SD	SD
C Key	O	O	O	O	O	O
Without keyway	SD	SD	SD	SD	SD	SD
Joint seal						
Without joint seal	SD	SD	SD	SD	SD	SD
Permatex on joints	O	O	O	O	O	O
Bolt seal						
Without bolt seal	SD	SD	SD	SD	SD	SD
Loctite 5923 (Permatex) on bolts	O	O	O	O	O	O
Plug						
Without	O	O	O	O	O	O
Plain Plastic plug (Safe area)	SD	SD	SD	SD	SD	SD
Threaded plastic plug (Safe area)	O	O	O	O	O	O
Threaded iron plug (Safe area)	O	O	O	O	O	O
Internal Tropicalized Painting						
No	SD	SD	SD	SD	SD	SD
Complete (200h)	O	O	O	O	O	O
According to IEEE 841 (96h)	O	O	O	O	O	O
Only rotor	O	O	O	O	O	O
Drain						
Rubber drain plug	SD	SD	SD	SD	SD	SD
Stainless stell threaded drain plug (closed)	O	O	O	O	O	O
Threaded T-type drain plug (Automatic) (Safe area)	O	O	O	O	O	O
Threaded T-type drain plug (Automatic) (Hazardous area)	NA	NA	NA	NA	NA	NA
Bolt material						
Carbon steel	SD	SD	SD	SD	SD	SD
Stainless steel 304	O	O	O	O	O	O
Stainless steel 316	O	O	O	O	O	O
Drive end grounding brush						
Without brush holder set	SD	SD	SD	SD	SD	SD
With SGR shaft grounding ring (Safe area)	O	O	O	O	O	O
With SGR shaft grounding ring (Hazardous area)	NA	NA	NA	NA	NA	NA
Bearing thermal protection						
Bimetal thermal protector - drive end / non-drive end (Hazardous area)	NA	NA	NA	NA	NA	NA
Bimetal thermal protector - drive end / non-drive end (Safe area)	O	O	O	O	O	O
3-wire Pt100 - drive end / non drive end	SD	SD	SD	SD	SD	SD
3-wire calibrated Pt100 - drive end / non drive end	O	O	O	O	O	O
Direction of Rotation						
Clockwise	SD	SD	SD	SD	SD	SD
Counterclockwise	O	O	O	O	O	O
Impregnation						
Continuos resin flow impregnation	SD	SD	SD	SD	SD	SD
High Voltage - VPI	SD	SD	SD	SD	SD	SD
High Voltage - 2xVPI	O	O	O	O	O	O
High Voltage - 2xVPI+Pulver	O	O	O	O	O	O
Vibration Sensor						
Without sensor	SD	SD	SD	SD	SD	SD
Prepared for assemby of SPM vibration sensor	O	O	O	O	O	O

Notes: 1) Other optional features, on request;
2) Some combinations of optional features are not allowed - contact WEG;
Legend: SD - Standard / O - Optional / NA - Not Available

4. Optional Features [1) 2)]

Frame		5009/10	5809/10	6806/07	6808/09	7006/07	7008/09
Hollow shaft							
Steady bushing		0	0	0	0	0	0
Self releasing coupling		SD	SD	SD	SD	SD	SD
Non reverse ratchet							
Without		SD	SD	SD	SD	SD	SD
With		0	0	0	0	0	0
Electrical Optionals							
Starting method							
Direct-on-line		SD	SD	SD	SD	SD	SD
VFD variable frequency drive		0	0	0	0	0	0
Service factor							
1.00 (Safe and Hazardous Area)		SD	SD	SD	SD	SD	SD
1.15	Safe Area	0	0	0	0	0	0
	Hazardous Area	0	0	0	0	0	0
1.25	Safe Area	0	0	0	0	0	0
	Hazardous Area	NA	NA	NA	NA	NA	NA
Insulation class							
F		SD	SD	SD	SD	SD	SD
H		0	0	0	0	0	0
Space Heater							
110-127 V (Hazardous Area)		0	0	0	0	0	0
200-240 V (Hazardous Area)		SD	SD	SD	SD	SD	SD
110-127 / 220-240 V (Safe Area)		SD	SD	SD	SD	SD	SD
380-480 V (Safe Area)		0	0	0	0	0	0
Winding Thermal Protection - Alarm							
Without phermal protection alarm		SD	SD	SD	SD	SD	SD
2 wire PT100 - Alarm		0	0	0	0	0	0
3 wire PT100 - Alarm		0	0	0	0	0	0
PTC Thermistor - 130°C - Alarm (Safe Area)		0	0	0	0	0	0
PTC Thermistor - 130°C - Alarm (Hazardous Area)		0	0	0	0	0	0
2-wire PT100 - Tripping		0	0	0	0	0	0
3-wire PT100 - Tripping		SD	SD	SD	SD	SD	SD
PTC Thermistor - 155°C - Tripping (Safe Area)		0	0	0	0	0	0
PTC Thermistor - 155°C - Tripping (Hazardous Area)		0	0	0	0	0	0
Design							
None (HV)		SD	SD	SD	SD	SD	SD
A (LV)		SD	SD	SD	SD	SD	SD
Bearing Thermometer							
Without (Safe and hazardous area)		SD	SD	SD	SD	SD	SD
With contact, 1 per bearing	Safe Area	0	0	0	0	0	0
	Hazardous Area	NA	NA	NA	NA	NA	NA
Without contact, 1 per bearing	Safe Area	0	0	0	0	0	0
	Hazardous Area	NA	NA	NA	NA	NA	NA
Without contact, 1 per bearing - calibrated	Safe Area	0	0	0	0	0	0
	Hazardous Area	NA	NA	NA	NA	NA	NA
Grounding							
Double grounding		SD	SD	SD	SD	SD	SD
Triple grounding		0	0	0	0	0	0
Equipotencial bonding conductor between terminal box and frame (Hazardous Area)		SD	SD	SD	SD	SD	SD

Notes: 1) Other optional features, on request;
2) Some combinations of optional features are not allowed - contact WEG;
Legend: SD - Standard / O - Optional / NA - Not Available

5. Electrical Data

5.1 Low Voltage

Output		Frame	Full Load Torque (ft.lb)	Locked Rotor Current		Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inertia J (sq.ft.lb)	Allowable locked rotor time (s)		Weight (lb)	Sound dB(A)	Service Factor	440 V							
														Rated speed (rpm)	% of full load						Full load current In (A)
															Efficiency			Power Factor			
HP	kW			Code	II/In				Hot	Cold					50	75	100	50	75	100	
IV Poles																					
400	300	5009/10	161	H	7.0	1.3	2.5	6.51	20	44	1650	79	1.00	1783	95.0	95.8	96.2	0.75	0.83	0.86	476
450	330	5009/10	181	J	8.5	1.6	3.0	6.05	19	42	1590	79	1.00	1784	95.0	95.8	96.2	0.75	0.83	0.86	523
500	370	5009/10	201	J	8.5	1.8	2.5	6.73	19	42	1632	79	1.00	1784	95.4	95.8	96.2	0.72	0.82	0.86	587
600	440	5809/10	240	G	6.5	1.8	2.0	12.27	33	73	2420	82	1.00	1791	95.6	96.0	96.0	0.79	0.85	0.87	691
700	515	5809/10	280	H	7.3	1.9	2.3	12.81	33	73	2465	82	1.00	1790	95.9	96.5	96.6	0.75	0.82	0.85	823
800	590	5809/10	320	J	8.3	2.5	2.6	12.86	15	33	2800	82	1.00	1791	95.8	96.2	96.5	0.74	0.82	0.85	944
900	660	6808/09	360	J	8.5	2.0	2.8	22.96	16	35	3187	82	1.00	1788	96.0	96.8	97.0	0.73	0.82	0.85	1050
1000	750	7008/09	400	H	7.5	0.7	2.4	28.05	20	44	4356	82	1.00	1792	95.4	95.8	96.2	0.71	0.81	0.85	1200
1100	800	7008/09	440	G	7.0	0.7	2.4	28.05	20	44	4356	82	1.00	1792	95.6	96.3	96.3	0.76	0.84	0.87	1250
1250	900	7008/09	499	G	7.0	0.7	2.4	28.05	20	44	4356	82	1.00	1792	95.8	96.5	96.5	0.76	0.84	0.87	1410
1350	1000	7008/09	539	H	7.3	0.7	2.4	32.11	20	44	4611	82	1.00	1792	95.8	96.8	96.8	0.76	0.84	0.87	1560
1500	1100	7008/09	599	G	7.0	0.7	2.4	34.15	20	44	4738	82	1.00	1792	95.8	96.8	96.8	0.76	0.84	0.87	1710
VI Poles																					
300	220	5009/10	182	G	6.4	2	2.5	8.76	16	35	1504	77	1.00	1183	94.7	95.2	95.1	0.77	0.84	0.87	349
350	260	5009/10	211	J	7.8	2.4	3.0	10.25	27	59	1581	77	1.00	1188	94.0	94.5	95.8	0.75	0.82	0.85	419
400	300	5809/10	241	G	6.3	1.2	2.4	11.51	26	57	1874	77	1.00	1188	95.0	95.8	95.8	0.71	0.81	0.84	489
450	330	5809/10	271	G	6.3	1.2	2.5	12.66	26	57	1955	77	1.00	1188	95.4	95.8	95.8	0.75	0.83	0.85	532
500	370	5809/10	301	G	6.5	1.3	2.5	13.81	26	57	2295	77	1.00	1188	95.5	96.2	96.2	0.75	0.83	0.86	587
600	440	5809/10	362	H	7.5	1.5	2.7	17.04	25	55	2465	77	1.00	1188	95.6	96.3	96.3	0.70	0.81	0.85	705
700	515	6806/07	420	H	7.5	1.5	2.5	21.29	18	40	3072	81	1.00	1192	96.1	96.5	96.5	0.68	0.80	0.84	834
800	590	6808/09	481	J	7.8	1.8	2.6	24.02	20	44	3230	81	1.00	1192	95.8	96.2	96.2	0.67	0.79	0.83	970
900	660	7008/09	540	G	6.5	0.7	2.3	35.42	20	44	4600	81	1.00	1193	95.8	96.2	96.2	0.78	0.84	0.87	1030
950	700	7008/09	570	G	6.5	0.7	2.3	37.81	20	44	4670	81	1.00	1193	95.8	96.2	96.2	0.78	0.84	0.87	1100
1000	750	7008/09	599	H	7.5	0.9	3.0	37.81	20	44	4800	81	1.00	1195	95.8	96.2	96.5	0.76	0.84	0.87	1170
1100	800	7008/09	660	G	6.5	0.7	2.3	40.2	20	44	4860	81	1.00	1194	95.8	96.5	96.5	0.78	0.84	0.87	1250
1250	900	7008/09	750	G	6.7	0.7	2.3	44.99	20	44	4993	81	1.00	1194	96.2	96.5	96.5	0.76	0.84	0.86	1420
VIII Poles																					
250	185	5009/10	202	F	5.5	1.2	2.3	9.78	26	57	1585	75	1.00	888	94.5	95.0	95.1	0.70	0.78	0.82	311
300	220	5009/10	241	G	6.3	1.6	2.9	11.6	21	46	1705	75	1.00	890	94.9	95.3	95.3	0.68	0.78	0.82	369
350	260	5809/10	281	F	5.5	1.2	2.3	15.29	21	46	1912	75	1.00	892	94.5	95.0	95.0	0.68	0.78	0.82	438
400	300	5809/10	321	F	5.5	1.2	2.3	17.09	23	51	1997	75	1.00	891	95.3	95.8	95.7	0.68	0.78	0.82	502
450	330	5809/10	361	G	6.0	1.2	2.3	21.06	17	37	2397	75	1.00	892	95.0	95.4	95.0	0.68	0.78	0.82	556
500	370	6806/07	401	H	6.8	1.1	2.3	27.52	22	48	2880	79	1.00	893	95.0	95.4	95.4	0.67	0.78	0.82	621
600	440	6806/07	481	H	6.8	1.1	2.3	32.19	22	48	3060	79	1.00	893	95.0	95.8	95.8	0.67	0.78	0.82	735
700	515	6808/09	561	G	6.6	1.1	2.3	36.85	22	48	3230	79	1.00	893	95.0	95.8	95.8	0.67	0.78	0.82	860
800	590	7008/09	640	F	5.9	0.7	2.1	54.70	26	57	4738	79	1.00	895	95.6	96.0	96.0	0.70	0.80	0.84	960
850	630	7008/09	680	F	5.9	0.7	2.1	54.70	26	57	4738	79	1.00	895	95.8	96.2	96.2	0.70	0.80	0.84	1020
900	660	7008/09	720	F	5.9	0.7	2.1	57.95	26	57	4864	79	1.00	895	95.8	96.2	96.2	0.70	0.80	0.84	1070
950	700	7008/09	760	F	5.9	0.7	2.1	61.21	26	57	4993	79	1.00	895	95.8	96.2	96.5	0.70	0.80	0.84	1130
1000	750	7008/09	800	H	7.0	0.9	2.5	65.76	26	57	5172	79	1.00	895	95.8	96.2	96.5	0.70	0.79	0.84	1210
X Poles																					
125	90	5009/10	126	G	5.5	1.5	2.0	6.90	15	33	1317	75	1.00	710	91.7	93.0	93.0	0.51	0.63	0.70	181
150	110	5009/10	151	G	5.5	1.5	2.0	8.39	15	33	1402	75	1.00	710	92.4	93.0	93.0	0.51	0.63	0.70	222
175	132	5009/10	176	H	5.5	1.5	2.0	10.07	15	33	1572	75	1.00	710	92.4	93.6	93.6	0.51	0.63	0.70	264
200	150	5009/10	202	H	5.8	1.6	2.0	11.93	15	33	1683	75	1.00	710	92.4	93.6	94.1	0.51	0.63	0.70	299
250	185	5809/10	251	H	5.5	1.3	2.2	16.51	20	44	1955	75	1.00	713	93.0	93.6	94.1	0.48	0.6	0.67	385
300	220	5809/10	303	H	5.6	1.6	1.9	19.47	20	44	2295	75	1.00	710	93.0	94.1	94.5	0.49	0.61	0.68	449
350	260	5809/10	351	H	6.0	1.3	2.2	23.24	20	44	2550	75	1.00	713	93.6	94.5	94.5	0.49	0.61	0.68	531
350	260	6806/07	351	G	5.9	0.7	2.0	24.41	20	44	2769	79	1.00	713	94.1	95.0	95.4	0.58	0.70	0.76	471
400	300	6806/07	401	G	5.9	0.7	2.0	25.84	22	48	2839	79	1.00	714	94.1	95.0	95.4	0.60	0.72	0.78	529
450	330	6806/07	451	G	5.9	0.7	2.0	30.63	22	48	3043	79	1.00	714	94.5	95.4	95.4	0.60	0.72	0.78	582
500	370	6808/09	501	G	5.9	0.7	2.0	33.02	22	48	3136	79	1.00	714	95.0	95.4	95.8	0.60	0.72	0.78	650
550	400	6808/09	552	G	5.9	0.7	2.0	37.81	22	48	3340	79	1.00	714	95.4	95.8	95.8	0.60	0.72	0.78	702
600	440	6808/09	602	G	5.9	0.7	2.0	40.2	22	48	3442	79	1.00	714	95.4	96.2	96.2	0.60	0.72	0.78	769
650	480	7008/09	652	G	6.2	0.8	2.2	64.13	25	55	4054	79	1.00	714	95.4	95.8	96.2	0.67	0.77	0.81	808
700	515	7008/09	702	G	6.2	0.8	2.2	68.46	25	55	4165	79	1.00	714	95.7	95.8	96.2	0.67	0.77	0.81	867
750	560	7008/09	752	G	6.2	0.8	2.2	72.79	25	55	4267	79	1.00	714	95.7	95.8	96.2	0.67	0.77	0.81	943
800	590	7008/09	802	G	6.2	0.8	2.2	77.13	25	55	4377	79	1.00	714	95.7	96.2	96.2	0.67	0.77	0.81	994
850	630	7008/09	852	G	6.2	0.8	2.2	81.46	25	55	4509	82	1.00	714	95.7	96.2	96.4	0.67	0.77	0.81	1060
XII Poles																					
175	132	5809/10	211	F	4.5	1.2	1.7	18,53	20	44	2023	82	1.00	593	93.6	94.1	94.1	0.50	0.61	0.67	275
200	150	5809/10	241	F	4.5	1.2	1.7	19,47	20	44	2397	82	1.00	593	93.6	94.1	94.1	0.50	0.61	0.67	312
250	185	5809/10	302	F	4.5	1.2	1.7	21,67	20	44	2397	82	1.00	592	93.6	94.1	94.1	0.50	0.62	0.68	379
300	220	6808/09	362	E	5.0	1.0	2.0	28,24	20	44	2941	82	1.00	594	94.1	94.1	94.5	0.63	0.74	0.79	387
350	260	6808/09	423	G	5.5	1.0	2.0	30,63	20	44	3090	82	1.00	592	94.1	94.5	95.0	0.57	0.69	0.76	473
400	300	6808/09	483	G	5.5	0.9	2.0	35,42	20	44	3689	82	1.00	593	94.1	94.5	95.0	0.59	0.69	0.76	545
450	330	7008/09	542	F	5.5	0.8	1.9	59,79	40	88	3871	82	1.00	595	94.5	95.0	95.0	0.61	0.71	0.77	592
500	370	7008/09	602	F	5.5	0.8	1.9	59,79	40	88	3952	82	1.00	595	94.5	95.0	95.4	0.61	0.71	0.77	661
550	400	7008/09	662	F	5.5	0.8	1.9	64,13	40	88	4071	82	1.00	595	95.0	95.4	95.8	0.61	0.71	0.77	712
600	440	7008/09	722	F	5.5	0.8	1.9	68,46	40	88	4292	82	1.00	595	95.4	95.4	95.8	0.61	0.71	0.77	783
650	480	7008/09	782	F	5.5	0.8	1.9	72,79	40	88	4420	82	1.00	595	95.4	95.4	95.8	0.62	0.72	0.78	843
700	515	7008/09	842	F	5.5	0.8	1.9	77,13	40	88	4513	82	1.00	595	95.4	95.8	95.8	0.62	0.72	0.78	904
750	560	7008/09	903	F	5.5	0.8	1.9	81,46	40	88	4777	82	1.00	595	95.4	95.8	96.2	0.62	0.72	0.78	979

Note: 1) Temperature rise ΔT 105 K.

5. Electrical Data

5.2 High Voltage - 1.2 kV to 5.0 kV

Output		Frame	Full Load Torque (ft.lb)	Locked Rotor Current		Locked Rotor Torque TI/Tn	Break-down Torque Tb/Tn	Inertia J (sq.ft.lb)	Allowable locked rotor time (s)		Weight (lb)	Sound dB(A)	Service Factor	4160 V							
														Rated speed (rpm)	% of full load						Full load current In (A)
															Efficiency			Power Factor			
HP	kW			Code	II/In				Hot	Cold					50	75	100	50	75	100	
IV Poles																					
250	185	5009/10	100	H	6.9	1.5	2.1	4.01	20	44	1580	79	1.00	1784	93.0	93.6	94.1	0.70	0.81	0.84	32.5
300	220	5009/10	120	H	6.9	1.4	2.2	4.83	19	42	1640	79	1.00	1784	93.0	94.1	95.0	0.71	0.81	0.84	38.3
350	260	5009/10	140	H	6.9	1.4	2.1	5.09	19	42	1680	79	1.00	1784	93.6	94.5	95.0	0.71	0.81	0.84	45.2
400	300	5009/10	160	H	6.9	1.5	2.3	6.10	18	40	1820	79	1.00	1785	93.6	94.5	95.0	0.73	0.81	0.84	52.2
450	330	5809/10	180	G	6.2	1.4	2.2	9.98	30	66	2390	82	1.00	1787	94.1	95.0	95.0	0.75	0.80	0.84	57.4
500	370	5809/10	200	G	6.2	1.4	2.2	10.79	25	55	2460	82	1.00	1787	94.1	95.0	95.4	0.75	0.80	0.84	64.1
550	400	5809/10	220	H	7.0	1.5	2.3	11.59	25	55	2540	82	1.00	1788	94.1	95.0	95.4	0.74	0.80	0.84	69.3
600	440	6806/07	240	G	6.2	1.4	2.3	14.54	25	55	2800	82	1.00	1788	94.5	95.4	95.4	0.73	0.82	0.85	75.3
650	480	6806/07	260	G	6.2	1.4	2.3	15.41	25	55	2870	82	1.00	1788	94.5	95.4	95.4	0.75	0.82	0.85	82.2
700	515	6806/07	280	G	6.2	1.4	2.3	16.28	25	55	3100	82	1.00	1788	94.5	95.4	95.8	0.75	0.82	0.85	87.8
750	560	6808/09	300	G	6.6	1.4	2.3	19.53	25	55	3440	82	1.00	1790	94.5	95.4	95.8	0.73	0.81	0.84	96.6
800	590	6808/09	320	G	6.6	1.4	2.4	19.53	20	44	3440	82	1.00	1790	95.0	95.4	95.8	0.72	0.80	0.84	102
850	630	6808/09	340	G	6.6	1.4	2.4	21.00	20	44	3460	82	1.00	1791	95.0	95.4	95.8	0.72	0.80	0.84	109
900	660	6808/09	360	H	7.0	1.4	2.4	24.00	20	44	3530	82	1.00	1790	95.0	95.4	95.8	0.72	0.80	0.84	114
950	700	7006/07	380	G	6.7	0.7	2.4	24.7	25	55	4130	82	1.00	1791	95.0	95.8	95.8	0.77	0.82	0.84	121
1000	750	7006/07	400	G	6.4	0.7	2.3	28.8	25	55	4180	82	1.00	1790	95.0	95.8	96.2	0.77	0.82	0.84	129
1100	800	7008/09	440	G	6.5	0.7	2.5	26.57	25	55	4520	82	1.00	1791	95.4	95.8	96.2	0.77	0.84	0.87	133
1250	900	7008/09	500	F	6.5	0.7	2.5	28.8	25	55	4540	82	1.00	1790	95.4	96.2	96.2	0.75	0.84	0.87	149
1350	1000	7008/09	540	G	6.4	0.7	2.5	30.69	20	44	4680	82	1.00	1791	95.8	96.2	96.2	0.75	0.84	0.87	166
1500	1100	7008/09	599	G	6.4	0.7	2.5	34.15	20	44	4800	82	1.00	1792	95.8	96.2	96.2	0.74	0.83	0.86	185
VI Poles																					
250	185	5009/10	151	H	6.5	1.1	2.4	6.05	21	46	1760	77	1.00	1185	93.0	93.0	93.6	0.64	0.74	0.79	34.7
300	220	5009/10	181	H	6.5	1.8	2.4	6.70	24	53	1900	77	1.00	1185	93.0	93.0	93.6	0.64	0.74	0.79	41.3
350	260	5809/10	211	H	6.5	1.7	2.4	12.33	18	40	2420	77	1.00	1190	93.6	94.1	95.0	0.65	0.74	0.80	47.5
400	300	5809/10	241	H	6.5	1.8	2.4	12.82	18	40	2560	77	1.00	1190	94.1	94.5	95.0	0.65	0.74	0.80	54.8
450	330	5809/10	271	G	6.5	1.5	2.4	13.56	18	40	2560	77	1.00	1188	94.1	94.5	95.0	0.65	0.74	0.80	60.3
500	370	5809/10	301	J	7.3	1.7	2.4	14.79	18	40	2620	77	1.00	1189	94.1	94.5	95.0	0.65	0.74	0.80	67.6
550	400	6806/07	330	G	6.5	1	2.2	21.48	25	55	3000	81	1.00	1193	94.5	95.0	95.4	0.70	0.78	0.83	70.1
600	440	6806/07	360	G	6.5	1	2.2	21.42	25	55	3000	81	1.00	1192	94.5	95.4	95.4	0.73	0.81	0.84	76.2
650	480	6806/07	390	G	6.5	1	2.2	23.42	25	55	3260	81	1.00	1192	95.0	95.4	95.4	0.73	0.81	0.84	83.1
700	515	6808/09	420	G	6.5	1	2.2	23.42	20	44	3400	81	1.00	1192	95.0	95.4	95.8	0.73	0.81	0.84	88.8
750	560	6808/09	451	G	6.5	1	2.2	25.31	20	44	3400	81	1.00	1192	95.0	95.4	95.8	0.73	0.81	0.84	96.6
800	590	6808/09	480	J	7.4	1.4	2.3	25.42	20	44	3580	81	1.00	1194	95.0	95.8	95.8	0.65	0.77	0.80	107
850	630	7006/07	510	H	6.9	1	2.4	32.43	25	55	4130	81	1.00	1194	95.4	95.8	96.2	0.66	0.77	0.82	111
900	660	7006/07	541	G	6.9	0.9	2.4	34.7	25	55	4590	81	1.00	1192	95.4	95.8	96.2	0.67	0.77	0.84	113
950	700	7008/09	571	G	6.9	0.7	2.4	34.7	25	55	4810	81	1.00	1192	95.8	96.2	96.2	0.67	0.77	0.84	120
1000	750	7008/09	601	H	6.9	0.7	2.4	36.97	25	55	4820	81	1.00	1192	95.8	96.2	96.2	0.67	0.80	0.84	129
1100	800	7008/09	660	G	6.9	0.7	2.4	39.24	25	55	4830	81	1.00	1193	95.8	96.2	96.2	0.67	0.80	0.84	137
1250	900	7008/09	749	G	6.5	0.7	2.4	39.24	20	44	5130	81	1.00	1195	95.8	96.2	96.5	0.70	0.78	0.83	156
1350	1000	7008/09	810	G	6.5	0.7	2.4	42.7	20	44	5130	81	1.00	1193	95.8	96.2	96.5	0.73	0.78	0.83	173
VIII Poles																					
175	132	5009/10	141	J	6.7	1.2	2.5	8.95	12	26	1750	75	1.00	888	92.2	92.7	92.7	0.58	0.69	0.76	26.0
200	150	5009/10	161	J	6.7	1.2	2.5	10.07	12	26	1800	75	1.00	889	92.4	93.0	93.0	0.52	0.65	0.75	29.8
250	185	5009/10	201	J	6.7	1.3	2.5	11.0	12	26	1840	75	1.00	889	92.5	93.0	93.0	0.52	0.64	0.72	38.3
300	220	5809/10	241	H	6.4	1.3	2.2	18.53	22	48	2600	75	1.00	892	94.2	94.7	94.7	0.60	0.71	0.75	43.0
350	260	5809/10	281	H	6.4	1.3	2.1	18.53	22	48	2600	75	1.00	892	94.2	94.7	94.7	0.60	0.71	0.75	50.8
400	300	5809/10	321	H	6.4	1.3	2.2	23.24	22	48	2690	75	1.00	891	94.1	94.5	95.0	0.60	0.70	0.76	57.7
450	330	6806/07	362	G	6.4	1.0	2.3	30.63	22	48	3260	79	1.00	891	95.0	95.0	95.0	0.70	0.79	0.82	58.8
500	370	6808/09	402	H	6.6	1.3	2.3	29.85	22	48	3200	79	1.00	891	94.5	95.0	95.0	0.65	0.75	0.80	67.6
600	440	6808/09	482	G	6.4	1.2	2.3	32.19	22	48	3390	79	1.00	891	95.0	95.4	95.4	0.65	0.75	0.80	80.0
700	515	7006/07	560	G	6.3	0.7	2.2	48.18	26	57	4590	79	1.00	895	95.4	95.8	95.8	0.64	0.74	0.80	93.3
800	590	7006/07	640	G	6.3	0.7	2.2	51.44	26	57	4650	79	1.00	895	95.4	95.8	95.8	0.64	0.74	0.80	107
900	660	7008/09	720	G	6.3	0.7	2.2	51.44	26	57	5000	79	1.00	895	95.4	95.8	95.8	0.64	0.74	0.80	120
950	700	7008/09	760	G	6.3	0.7	2.2	54.7	30	66	5250	79	1.00	895	95.4	95.8	95.8	0.64	0.75	0.80	127
1000	750	7008/09	799	G	6.3	0.6	2.2	57.95	30	66	5280	79	1.00	896	95.8	95.8	95.8	0.64	0.75	0.80	136
X Poles																					
175	132	5809/10	176	J	5.5	1.2	2.2	18.53	11	24	2400	75	1.00	710	91.3	92.5	92.7	0.43	0.55	0.63	31.4
200	150	5809/10	202	H	5.5	1.9	2.2	20.10	11	24	2530	75	1.00	710	91.6	92.8	93.0	0.43	0.55	0.63	35.5
250	185	5809/10	252	H	5.5	1.7	2.2	21.67	11	24	2600	75	1.00	710	91.8	93.0	93.2	0.44	0.56	0.64	43.0
300	220	5809/10	303	H	5.5	1.7	2.2	23.24	11	24	2650	75	1.00	710	92.1	93.3	93.5	0.44	0.56	0.64	51.0
350	260	6806/07	350	G	5.5	0.9	2.0	25.84	28	62	3000	79	1.00	715	93.9	94.6	94.6	0.58	0.69	0.74	51.5
400	300	6806/07	402	G	5.5	0.9	2.0	28.24	28	62	3100	79	1.00	713	94.1	94.8	94.8	0.58	0.69	0.74	59.4
450	330	6806/07	452	G	5.5	0.9	2.0	33.02	28	62	3300	79	1.00	713	94.3	95.0	95.0	0.59	0.70	0.75	64.3
500	370	6808/09	502	G	5.5	0.9	2.0	37.81	28	62	3500	79	1.00	713	94.5	95.2	95.2	0.59	0.70	0.75	71.9
550	400	6808/09	552	F	5.5	0.9	2.0	42.60	28	62	4300	79	1.00	713	94.7	95.4	95.4	0.60	0.71	0.76	76.6
600	440	7006/07	603	F	5.5	0.9	2.0	48.18	31	68	4000	79	1.00	713	95.1	95.4	95.4	0.66	0.76	0.80	80.0
650	480	7006/07	653	F	5.5	0.9	2.0	51.44	31	68	4130	79	1.00	713	95.2	95.5	95.5	0.66	0.76	0.80	87.2
700	515	7006/07	703	F	5.5	0.9	2.0	51.44	31	68	4250	79	1.00	713	95.3	95.6	95.6	0.66	0.76	0.80	93.5
750	560	7006/07	753	F	5.5	0.9	2.0	54.70	31	68	4500	79	1.00	713	95.5	95.8	95.8	0.66	0.76	0.80	101
800	590	7006/07	803	F	5.5	0.9	2.0	57.95	31	68	4700	79	1.00	713	95.6	95.9	95.9	0.66	0.76	0.80	107
850	630	7006/07	854	F	5.5	0.9	2.0	57.95	31	68	4800	79	1.00	713	95.7	96.0	96.0	0.66	0.76	0.80	114

Note: 1) Temperature rise ΔT 105 K.

5. Electrical Data

5.2 High Voltage - 1.2 kV to 5.0 kV

Output		Frame	Full Load Torque (ft.lb)	Locked Rotor Current		Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inertia J (sq.ft.lb)	Allowable locked rotor time (s)		Weight (lb)	Sound dB(A)	Service Factor	4160 V							
														Rated speed (rpm)	% of full load						Full load current In (A)
															Efficiency			Power Factor			
HP	kW			Code	Il/In				Hot	Cold					50	75	100	50	75	100	
XII Poles																					
175	132	6806/07	211	G	5.5	1.1	2.3	25.84	25	55	3000	79	1.00	594	91.9	93.4	93.4	0.51	0.64	0.71	27.6
200	150	6806/07	241	G	5.5	1.1	2.3	28.24	25	55	3100	79	1.00	594	92.2	93.6	93.6	0.51	0.64	0.71	31.3
250	185	6806/07	301	G	5.5	1.1	2.3	30.63	25	55	3200	79	1.00	594	92.5	93.8	93.8	0.51	0.64	0.71	38.6
300	220	6806/07	362	G	5.5	1.1	2.3	33.02	25	55	3250	79	1.00	594	92.8	94.2	94.2	0.51	0.64	0.71	45.7
350	260	6806/07	422	G	5.5	1.1	2.3	35.42	25	55	3350	79	1.00	594	93.1	94.4	94.4	0.51	0.64	0.71	53.8
400	300	7006/07	483	H	5.5	1.0	2.0	48.18	50	110	3900	79	1.00	593	93.9	94.8	94.8	0.48	0.60	0.67	65.6
450	330	7006/07	543	H	5.5	1.0	2.0	51.44	50	110	4150	79	1.00	593	94.1	95.0	95.0	0.48	0.60	0.67	72.0
500	370	7006/07	604	H	5.5	1.0	2.0	54.70	50	110	4400	79	1.00	593	94.3	95.2	95.2	0.48	0.60	0.67	80.5
550	400	7006/07	664	G	5.5	1.0	2.0	57.95	50	110	4700	79	1.00	593	94.5	95.4	95.4	0.48	0.60	0.67	86.9

5.3 High Voltage - 5.1 kV to 6.6 kV

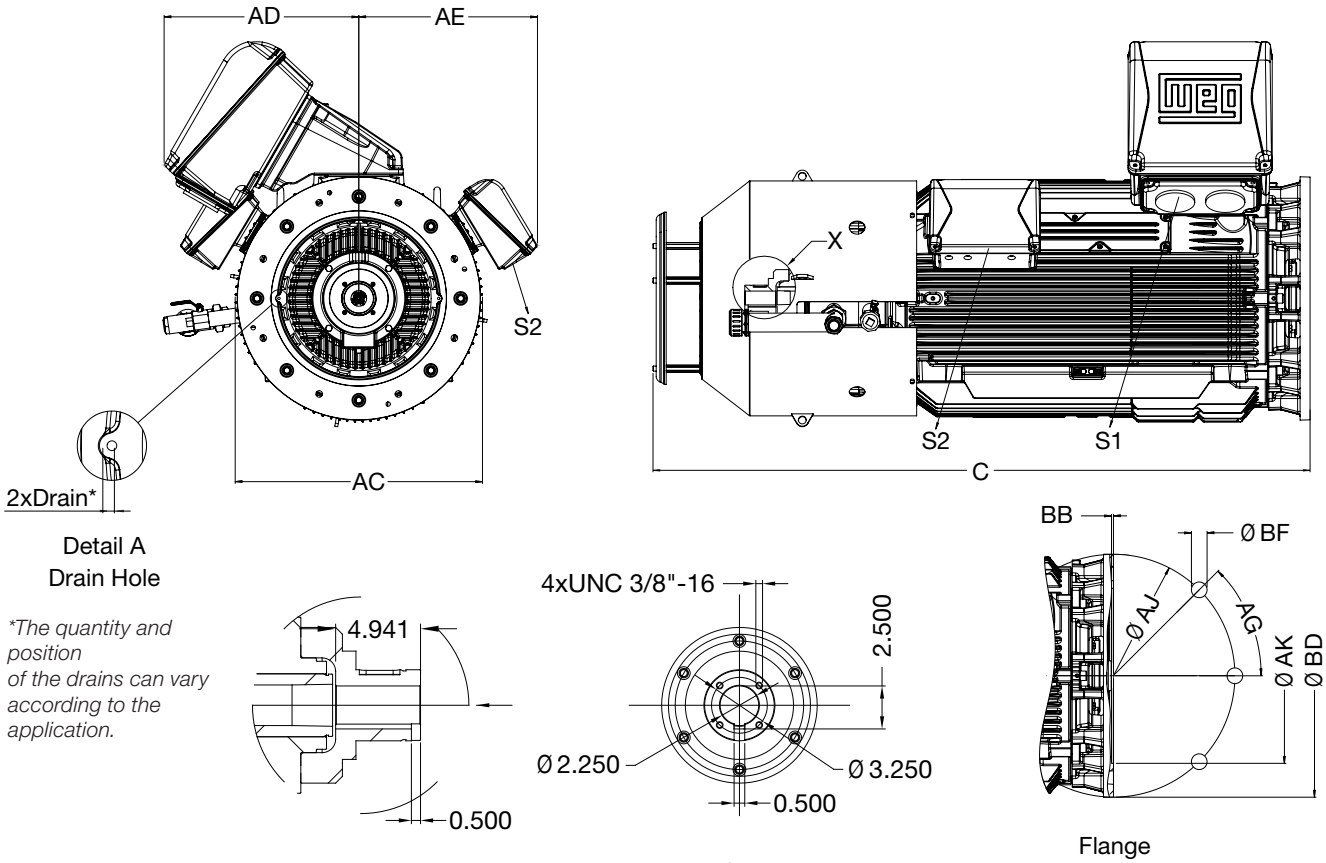
Output		Frame	Full Load Torque (ft.lb)	Locked Rotor Current		Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inertia J (sq.ft.lb)	Allowable locked rotor time (s)		Weight (lb)	Sound dB(A)	Service Factor	6600 V							
														Rated speed (rpm)	% of full load						Full load current In (A)
															Efficiency			Power Factor			
HP	kW			Code	Il/In				Hot	Cold					50	75	100	50	75	100	
IV Poles																					
250	185	5009/10	100	H	6.8	1.1	2.4	4.48	20	44	1590	79	1.00	1786	92.4	93.0	93.6	0.7	0.79	0.83	20.8
300	220	5009/10	120	H	6.8	1.1	2.4	4.83	20	44	1660	79	1.00	1785	92.4	93.0	93.6	0.71	0.80	0.83	24.8
350	260	5009/10	140	H	6.8	1.1	2.4	5.52	20	44	1760	79	1.00	1785	93.0	94.1	94.1	0.71	0.80	0.84	28.8
400	300	5809/10	160	H	6.9	1.4	2.2	9.51	25	55	2300	82	1.00	1788	93.6	94.5	95.0	0.73	0.80	0.85	32.5
450	330	5809/10	180	G	6.9	1.4	2.2	10.07	25	55	2385	82	1.00	1788	94.1	94.5	95.0	0.73	0.80	0.85	35.7
500	370	5809/10	200	H	6.8	1.4	2.2	10.99	20	44	2430	82	1.00	1789	94.1	94.5	95.0	0.73	0.80	0.84	40.6
550	400	6806/07	220	G	6.8	1,0	2.2	16.01	25	55	2840	82	1.00	1789	94.1	95.0	95.4	0.74	0.82	0.85	43.2
600	440	6806/07	240	G	6.8	1,0	2.2	16.96	25	55	2900	82	1.00	1790	94.1	95.0	95.4	0.73	0.82	0.85	47.5
650	480	6808/09	260	H	6.8	1.2	2.3	18.53	25	55	3175	82	1.00	1790	94.5	95.0	95.4	0.73	0.82	0.83	53.0
700	515	6808/09	280	H	6.8	1.2	2.3	20.10	25	55	3270	82	1.00	1790	94.5	95.4	95.4	0.73	0.82	0.83	56.9
750	560	6808/09	300	H	6.8	1.2	2.3	21.67	25	55	3380	82	1.00	1790	95.0	95.4	95.8	0.73	0.82	0.83	61.6
800	590	6808/09	320	H	6.8	1.3	2.3	23.23	25	55	3490	82	1.00	1790	95.0	95.8	95.8	0.73	0.82	0.83	64.9
850	630	7006/07	340	G	6.3	0.7	2.5	26.02	30	66	4060	82	1.00	1790	94.5	95.4	95.8	0.76	0.82	0.84	68.5
900	660	7006/07	360	G	6.3	0.7	2.5	28.05	30	66	4130	82	1.00	1791	94.5	95.4	95.8	0.76	0.82	0.84	71.7
950	700	7008/09	380	G	6.3	0.7	2.5	28.05	25	55	4150	82	1.00	1791	95.0	95.4	95.8	0.76	0.84	0.84	76.1
1000	750	7008/09	400	G	6.4	0.6	2.3	28.05	25	55	4500	82	1.00	1790	95.0	95.8	95.8	0.77	0.84	0.84	81.5
1100	800	7008/09	440	G	6.4	0.7	2.5	30.08	25	55	4620	82	1.00	1790	95.4	95.8	95.8	0.77	0.84	0.86	84.9
1250	900	7008/09	500	F	6.4	0.7	2.5	32.11	20	44	4730	82	1.00	1790	95.4	95.8	96.2	0.77	0.84	0.86	95.2
1350	1000	7008/09	539	G	7.0	0.8	2.5	32.11	20	44	4810	82	1.00	1792	95.8	96.2	96.2	0.77	0.84	0.86	106
VI Poles																					
250	185	5809/10	150	H	6.5	1.5	2.4	10.72	20	44	2180	77	1.00	1190	93.0	93.6	94.1	0.59	0.71	0.77	22.3
300	220	5809/10	181	H	6.5	1.5	2.4	11.44	20	44	2230	77	1.00	1190	93.0	93.6	94.5	0.66	0.75	0.77	26.4
350	260	5809/10	211	H	6.5	1.5	2.3	12.15	20	44	2280	77	1.00	1190	93.0	94.1	94.5	0.66	0.75	0.78	30.9
400	300	5809/10	241	J	7.3	1.4	2.3	14.06	20	44	2500	77	1.00	1190	93.0	94.1	94.5	0.60	0.72	0.78	35.6
450	330	6806/07	270	G	6.6	1,0	2.3	18.53	5	11	2950	81	1.00	1192	94.5	95.0	95.0	0.70	0.78	0.81	37.5
500	370	6806/07	300	H	6.6	1,0	2.3	16.01	5	11	2950	81	1.00	1192	94.5	95.0	95.0	0.70	0.78	0.81	42.1
550	400	6808/09	330	H	6.6	1,0	2.3	16.96	25	55	3350	81	1.00	1192	94.5	95.0	95.0	0.70	0.78	0.80	46.0
600	440	6808/09	360	H	6.6	1,0	2.4	18.53	25	55	3350	81	1.00	1193	94.5	95.4	95.4	0.70	0.78	0.80	50.4
650	480	6808/09	390	H	6.6	1,0	2.4	20.10	25	55	3400	81	1.00	1192	95.0	95.4	95.4	0.70	0.78	0.80	55.0
700	515	7006/07	420	G	6.7	0.9	2.5	28.24	25	55	3900	81	1.00	1192	95.4	95.8	95.8	0.70	0.80	0.82	57.3
750	560	7006/07	451	H	6.7	0.9	2.5	28.24	25	55	4150	81	1.00	1192	95.4	95.8	95.8	0.70	0.80	0.82	62.4
800	590	7008/09	481	G	6.7	0.9	2.5	30.63	25	55	4140	81	1.00	1192	95.4	95.8	95.8	0.70	0.80	0.82	65.7
850	630	7008/09	511	H	6.7	0.9	2.4	33.02	25	55	4280	81	1.00	1192	95.4	95.8	95.8	0.70	0.80	0.82	70.2
900	660	7008/09	541	G	6.7	0.9	2.4	33.02	25	55	4280	81	1.00	1192	95.4	95.8	95.8	0.71	0.80	0.82	73.5
950	700	7008/09	571	G	6.7	0.7	2.4	35.42	25	55	4460	81	1.00	1192	95.4	95.8	95.8	0.72	0.81	0.85	75.2
1000	750	7008/09	601	G	6.7	0.7	2.4	35.42	25	55	4815	81	1.00	1192	95.4	95.8	96.2	0.73	0.82	0.85	80.2
1100	800	7008/09	660	G	6.7	0.7	2.4	37.81	25	55	4815	81	1.00	1193	95.4	95.8	96.2	0.73	0.82	0.85	85.6
VIII Poles																					
200	150	5809/10	161	G	5.6	1.2	2.2	13.19	20	44	2120	75	1.00	891	93.0	93.6	93.6	0.62	0.73	0.78	18.0
250	185	5809/10	201	G	5.6	1.2	2.2	16.01	20	44	2190	75	1.00	891	93.6	93.6	94.1	0.62	0.73	0.78	22.0
300	220	5809/10	241	H	6.0	1.2	2.2	20.10	20	44	2390	75	1.00	891	93.6	94.1	94.1	0.55	0.67	0.72	28.4
350	260	5809/10	281	J	6.7	1.2	2.2	20.10	20	44	2470	75	1.00	891	93.6	94.1	94.5	0.55	0.67	0.72	33.4
400	300	6808/09	322	G	6.3	1.3	2.3	28.24	19	42	3270	79	1.00	889	94.1	94.5	94.6	0.65	0.75	0.80	34.7
450	330	6808/09	362	G	6.3	1.1	2.3	33.02	19	42	3450	79	1.00	889	94.3	94.8	94.8	0.65	0.75	0.80	38.1
500	370	6808/09	402	G	6.4	1.1	2.3	35.42	19	42	3600	79	1.00	890	94.5	95.0	95.0	0.65	0.75	0.80	42.6
600	440	7006/07	483	G	5.9	0.9	2.2	41.67	19	42	3960	79	1.00	890	94.8	95.4	95.4	0.65	0.75	0.79	51.1
700	515	7008/09	560	F	5.9	0.7	2.2	51.44	27	59	4775	79	1.00	895	95.0	95.8	95.8	0.67	0.77	0.81	58.1
800	590	7008/09	640	G	5.9	0.7	2.2	51.44	27	59	4870	79	1.00	895	95.0	95.8	95.8	0.67	0.77	0.81	66.5
850	630	7008/09	680	G	5.9	0.7	2.2	54.70	27	59	4950	79	1.00	895	95.0	95.8	95.8	0.67	0.77	0.81	71.0
900	660	7008/09	720	G	5.9	0.7	2.2	57.95	27	59	5075	79	1.00	895	95.4	95.8	96.2	0.64	0.74	0.80	75.0

Note: 1) Temperature rise ΔT 105 K.

6. Mechanical Data

6.1 Hollow Shaft Motors

(Dimensions in inches)

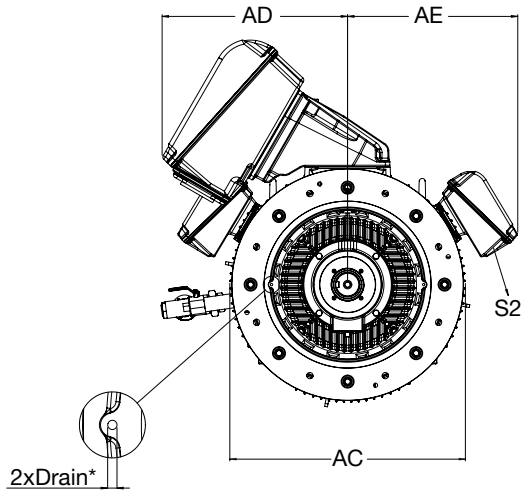


Frame	Front View			P-Base						C	S1	S2	Bearing	
	AC	AD	AE	AJ	AK	BD	BF	BB	AG	Number of holes				DE	NDE
5009/10	27.050	24.370	21.339	14.75	13.5	20	0.687	0.25	45°	8	83.014	2xNPT3"	3xNPT3/4"	6320	29324
5809/10	31.087	24.379	22.397	26	22	30.5	0.812		22.5°		88.094			6322	
6806/07	34.626	34.987	23.697	32	26	36	1				89.449			6324	29326
6808/09											95.158				
7006/07	38.723		24.348	39	33.75	42	1.125				94.311			6328	29328
7008/09											100.217				

Notes:
1) C dimension for motors supplied with non-reversing ratchet.
2) The non drive end bearing model depends of application's thrust loads. See the possible combinations on Table 1.

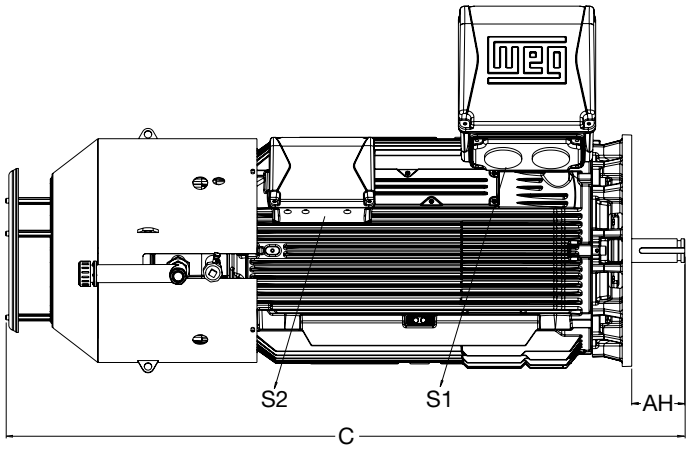
6.2 Solid Shaft Motors

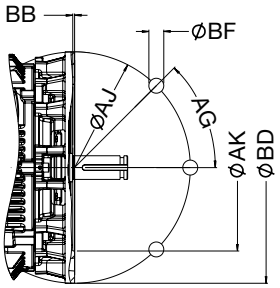
(Dimensions in inches)



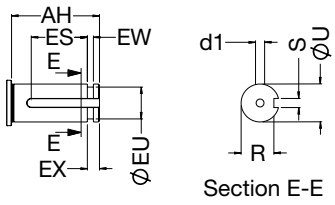
Detail A
Drain Hole

**The quantity and position of the drains can vary according to the application.*





Flange



Section E-E

Shaft end

Frame	Front View			P-Base							C	C[1]	S1	S2
	AC	AD	AE	AJ	AK	BD	BF	BB	AG	Number of holes				
5009/10	27.050	24.370	21.339	14.75	13.5	20	0.687	0.250	45°	8	81.535	88.514	2xNPT3"	3xNPT3/4"
5809/10	31.087	24.379	22.397	26	22	30.5	0.812		22.5°		89.579	95.591		
6806/07	34.626	34.987	23.697	32	26	36	1				91.043	97.449		
6808/09											96.948	103.158		
7006/07	38.723		24.348	39	33.750	42	1.125				98.031	104.311		
7008/09											103.937	110.217		

Frame	Shaft end									Bearing	
	U	R	S	d1	AH	ES	EU	EW	EX	DE	NDE[2]
5009/10	2.625	2.276	0.625	UNC 3/4"	5.25	3.5	2.125	0.5	1	6320	29322 29324 29326 29328 29420
5809/10	3.125	2.704	0.75		7.25	5	2.625			6322	
6806/07	3.875	3.309	1	UNC 7/8"	7.75	6	3.375			6324	
6808/09											
7006/07	4.875	4.177	1.25		10.25	7.5	4.125	0.75	1.5	6328	
7008/09											

Notes:
1) C dimension for motors supplied with non-reversing ratchet.
2) The non drive end bearing model depends of application's thrust loads. See the possible combinations on Table 1.

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