WOLONG

Power your future

EMPORIUM ENERGY



Quantum™ LMV Horizontal Motors

ODP, TEFC, TEBV, WPI, WPII, TEAAC
2-12 Pole, 3 Phase, 60 Hz
380-6900V, 150-2500 HP

Solidly Built Motors
Engineered to Last

Quantum LMV

Quantum motors incorporate GE's long history of building reliability with the latest technology. All ratings meet NEMA Premium® efficiencies and comply with all applicable industry standards and requirements



Reliability is built in.

Purchasing dependable electric motors is an investment in the reliability of your operation which means serious savings to your botton line. We've engineered motor bearings and windings to address all of the top factors that can shorten motor life. That is why Quantum motors are well known for their reliability in the field.



Industries & Applications

Quantum motors are commonly used in the petrochemical, power generation, mining, pulp & paper, steel, and general process industries for various applications, including pumps, blowers, compressors, crushers, and conveyors.






Standards & Requirements

GE motors from Wolong are engineered, tested, and proven to meet or exceed all applicable requirements and standards.

NEMA & IEC
IEEE 841
CSA
API 547 and 541
Division 2
Zone 2 AEx ec



Capability Range

NEMA Motors				
	Frame Size	60 Hz	50 Hz	Power and Speed
Severe Duty	507 - 7011	460 - 6600 V	380 - 6600 V	150 - 1750 HP, 2 - 12 Poles
IEEE-841*	507 - 5013	460 - 4000 V	380 - 3300 V	125 - 500 HP, 2 - 8 Poles
API 547	509 - 7011	2300 - 6600 V	3300 V - 6600 V	250 - 2500 HP, 4 - 8 Poles
				< 800 HP, 2 Pole TEFC
				< 1250 HP, 2 Pole WPII
API 541	509 - 7011	2300 - 6600 V	3300 V - 6600 V	500 - 2500 HP, 2 - 4 Poles
				≥ 800 HP, 2 Pole TEFC
				≥ 1250 HP, 2 Pole WPII

IEC motors are available for TEFC 315 and 450 frames. Consult factory for details.
* IEEE Standard 841 - 2021 features

All motors are not built the same.

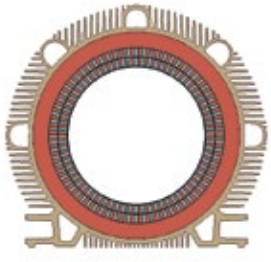
Features & Benefits

- Meets or exceeds NEMA Premium® efficiency levels providing for lower operating cost and lower environmental impact.
- Low vibration levels for maximum bearing life.
- Robust cast iron frame and end shields.
- Ground in conduit box and frame pad.
- Internal cooling circuit eliminating hot spots, lowering stator and bearing temperatures, and leading to longer motor life.
- Dual mounting holes for greater frame mounting flexibility.

Superior Bearings

- Single shielded ball, antifriction, and sleeve bearings for different frames and speeds (consult feature chart).
- 100 Ohm platinum RTD's on both bearings or provisions for RTD's.
- Grease retainer on both ends (anti-friction bearings).
- Labyrinth seals on both ends (sleeve bearings).
- Insulated bearing with grounding strap (sleeve bearings).
- Insulated bearing brackets on both ends (anti-friction bearings).
- Designed for 100,000 hrs. L10 life direct coupled.

What helps make Quantum better?



An internal frame air circuit with patented TEFC frame D-Ducts and trapezoidal rotor vents dramatically increases airflow for a cooler operating motor. This gives more flexibility in choosing frame sizes.

Optional Insulated bearings and drive end shaft grounding ring are available. This minimizes the impact of harmful shaft voltages. A separate blower is available for constant torque applications.

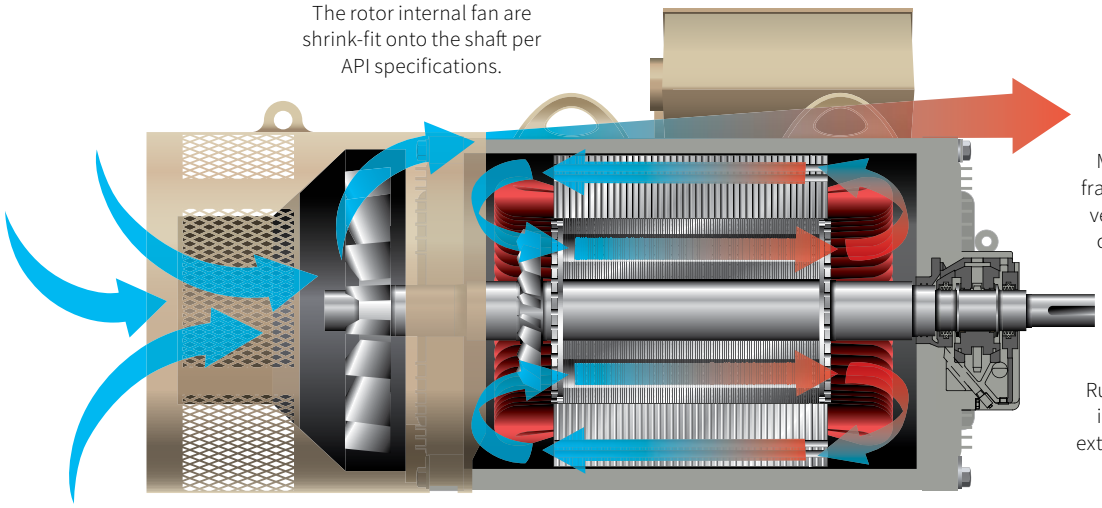




Available self-aligning spherically seated sleeve bearings allow the motor to adapt to the best position for the load. The shaft is allowed to adjust without increasing temperature, vibration or noise levels.



Totally Enclosed (TEFC) Details

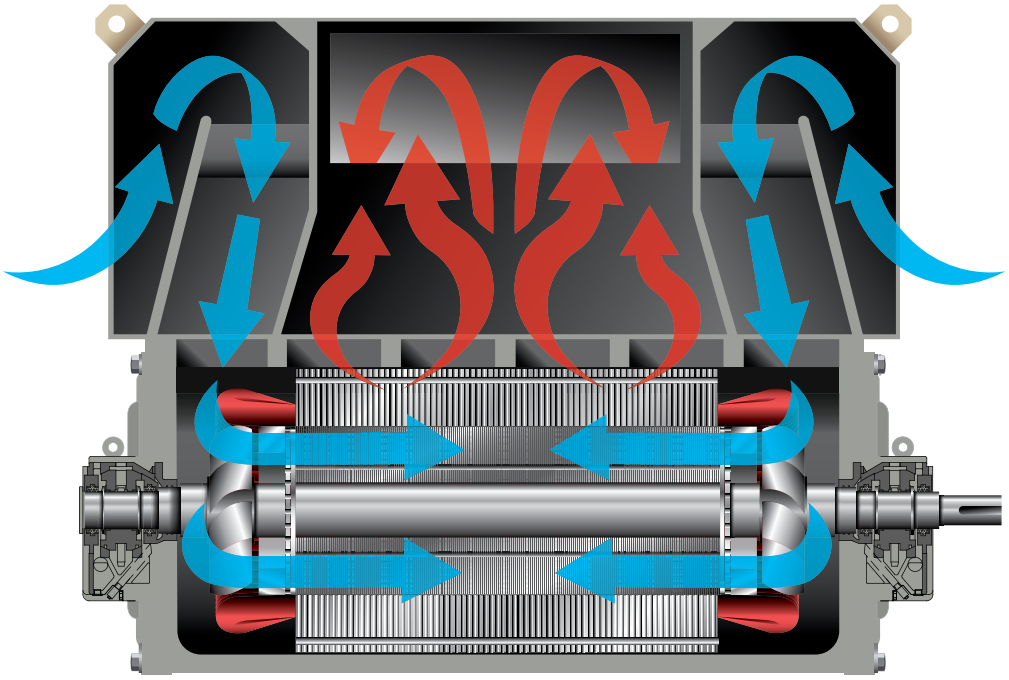


The rotor internal fan are shrink-fit onto the shaft per API specifications.

Multiple oversized frame and lamination vents result in a low core temperature.

Rugged class 30 cast iron feet. Excels in extreme environments -40°C to 40°C.

Weather Proof (WPII) Details



Advanced weather proof cooling system keeps the motor ventilated and frame temperatures down.

Epoxy solvent-less resin vaccuum pressur impregnation (VPI) process combines superior insulation materials into a complete system subjected to rigorous testing.

Self-aligning spherically seated sleeve bearings per DIN 31693 available for all ratings. Roller bearings are also available.

Quantum line feature comparison



Quantum Line	LV TEFC 500	LV TEFC 500 IEEE 841	MV TEFC 500	MV TEFC 500 IEEE 841
HP Range	150 - 700	125 - 500	200 - 800	200 - 500
Poles	2, 4, 6			
Voltage	460, 575		2300 / 4000	
Ambient	40°C			40°C to -25°C
Bearing Type	Single Shielded Ball; 509L & 5011L have DE roller bearing			
Efficiency	NEMA Premium (Meets or exceeds	Meets or exceeds IEEE 841-2021 requirements	NEMA Premium	Meets or exceeds IEEE 841-2021 requirements
Enclosure	TEFC (IP55)			
Hardware	SAE Grade 5			
Frame Size	507 - 5013			
Frequency	60 Hz			
Insulation	Class F, Epoxy VPI			
VFD Duty	We recommend bearing current mitigation for VFD use. Consult factory.			
Service Factor	1.15 (Consult catalog for exceptions.)			
Shaft Material	AISI 1045; 509L and 5011L AISI 4142			
Space Heater	115V thermostatically controlled, leads to accessory box			
Temp Rise	80°C @ 1.0 SF (Consult catalog for exceptions.)			
Warranty	3 Year	5 Year	3 Year	5 Year

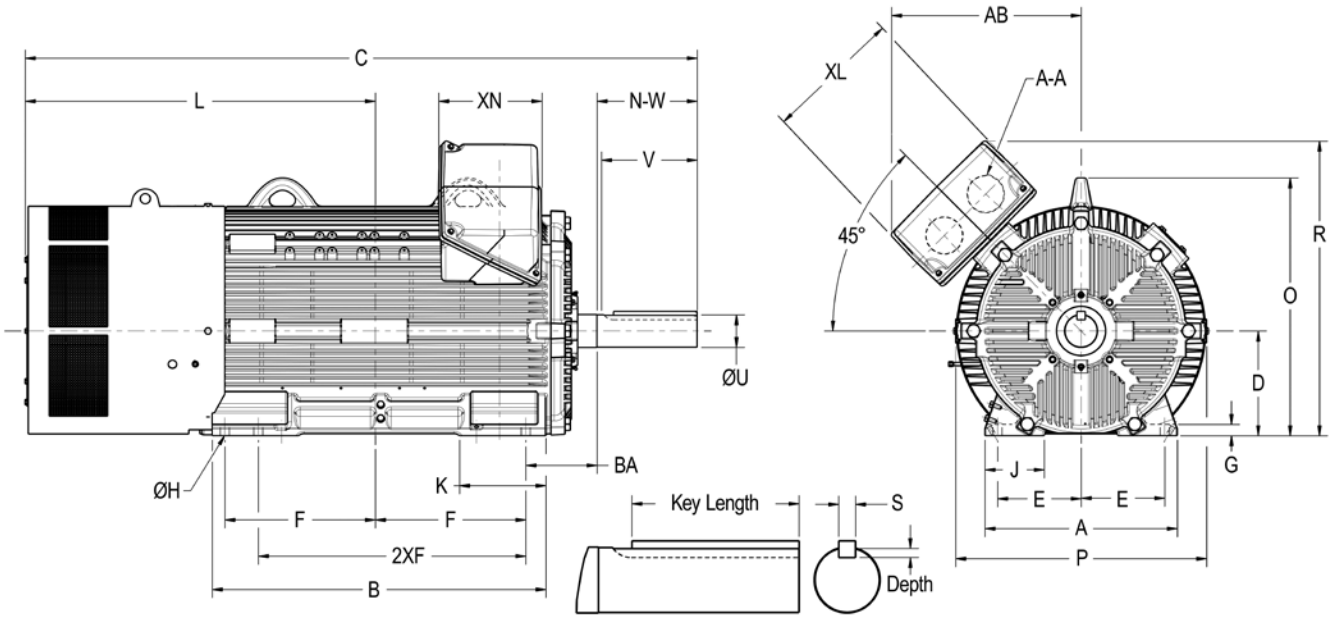






Quantum Line	MV ODP/WP 500	MV TEFC 500 IEEE 841	MV TEFC 580/7000	MV WPII 580
HP Range	200 - 1000	200 - 500	700 - 1750	800 - 2500
Poles	2, 4, 6			
Voltage	460, 575, 2300 / 4000	2300 / 4000		
Ambient	40°C	40°C to -25°C	40°C to -20°C	
Bearing Type	Anti-friction bearings, sleeve bearing offered for 600HP and higher		Antifriction bearings, 2-Pole 5811/5812/7011 sleeve	Antifriction bearings, 2-Pole 5812/5813 sleeve
Efficiency	NEMA Premium	Meets or exceeds IEEE 841-2009 requirements	NEMA Premium	NEMA Premium (Consult catalog for exceptions.)
Enclosure	ODP, WPI (IP23), WPII (IP24)	TEFC (IP55)		WPI (IP23), WPII (IP24)
Hardware	SAE Grade 5, Zinc plated	SAE Grade 5	SAE Grade 5, Zinc chromate coated	
Frame Size	509 - 5013		5809, 5810, 5811, 5812, 7010, 7011	5810, 5811, 5812, 5813
Frequency	60 Hz			
Insulation	Class F, Form coil epoxy VPI			
VFD Duty	Consult factory.			
Service Factor	1.15 (Consult catalog for exceptions.)			
Shaft Material	AISI 1045	AISI 1045; 509L and 5011L AISI 4142	AISI 4142	
Space Heater	120V thermostatically controlled, 1 phase, leads to accessory box	115V thermostatically controlled, leads to accessory box	120V Space heater, leads to accessory box	
Temp Rise	80°C @ 1.0 SF (Consult catalog for exceptions.)		90°C @ 1.0 SF by resistance (Consult catalog for exceptions.)	
Warranty	3 Year	5 Year	1 Year	

LV TEFC 500 / IEEE 841 standard dimensions



Frame	Shaft						Mounting					A	B	C	D[3]	G	J	K	L	O	P
	Keyway		Key Length	N-W	U[1]	V[2]	E	H	BA	2F	2XF										
	Width	Depth																			
507SS, 508SS	0.625	0.313	3.50	5.50	2.625	5.25	10.00	1.07	8.50	25.00	22.00	23.00	31.90	63.63	12.50	1.35	7.09	8.36	37.88	30.80	30.45
507SLL, 508SLL	0.750	0.375	4.00	5.75	2.875	5.50	10.00	1.07	8.50	25.00	22.00	23.00	31.90	64.13	12.50	1.35	7.09	8.36	37.88	30.80	30.45
507SL, 508SL	1.000	0.500	8.00	9.50	4.000	9.25	10.00	1.07	8.50	25.00	22.00	23.00	31.90	67.88	12.50	1.35	7.09	8.36	37.88	30.80	30.45
508L, 509L	1.000	0.500	10.00	12.00	3.875	11.50	10.00	1.07	8.50	28.00	25.00	23.00	31.90	72.39	12.50	1.35	7.09	8.36	37.88	30.80	30.45
508LL, 509LL	0.875	0.438	5.00	6.75	3.375	6.50	10.00	1.07	8.50	28.00	25.00	23.00	31.90	67.14	12.50	1.35	7.09	8.36	37.88	30.80	30.45
508LS, 509LS	0.625	0.313	4.00	5.75	2.625	5.50	10.00	1.07	8.50	28.00	25.00	23.00	31.90	66.14	12.50	1.35	7.09	8.36	37.88	30.80	30.45
5010L, 5011L	1.000	0.500	10.00	12.00	3.875	11.50	10.00	1.07	8.50	36.00	32.00	23.00	39.90	80.39	12.50	1.35	7.09	10.00	41.88	30.80	30.45
5010LL, 5011LL	0.875	0.438	5.00	6.75	3.375	6.50	10.00	1.07	8.50	36.00	32.00	23.00	39.90	75.14	12.50	1.35	7.09	10.00	41.88	30.80	30.45
5010LS, 5011LS	0.625	0.313	4.00	5.75	2.625	5.50	10.00	1.07	8.50	36.00	32.00	23.00	39.90	74.14	12.50	1.35	7.09	10.00	41.88	30.80	30.45
5012S, 5013S	1.000	0.500	5.50	7.75	3.875	7.50	10.00	1.07	8.50	45.00	40.00	23.00	48.90	85.14	12.50	1.35	7.09	10.00	46.38	30.80	30.45
5012ST, 5013ST	0.750	0.375	4.00	5.75	2.875	5.50	10.00	1.07	8.50	45.00	40.00	23.00	48.90	83.13	12.50	1.35	7.09	10.00	46.38	30.80	30.45

Conduit Box Dimensions

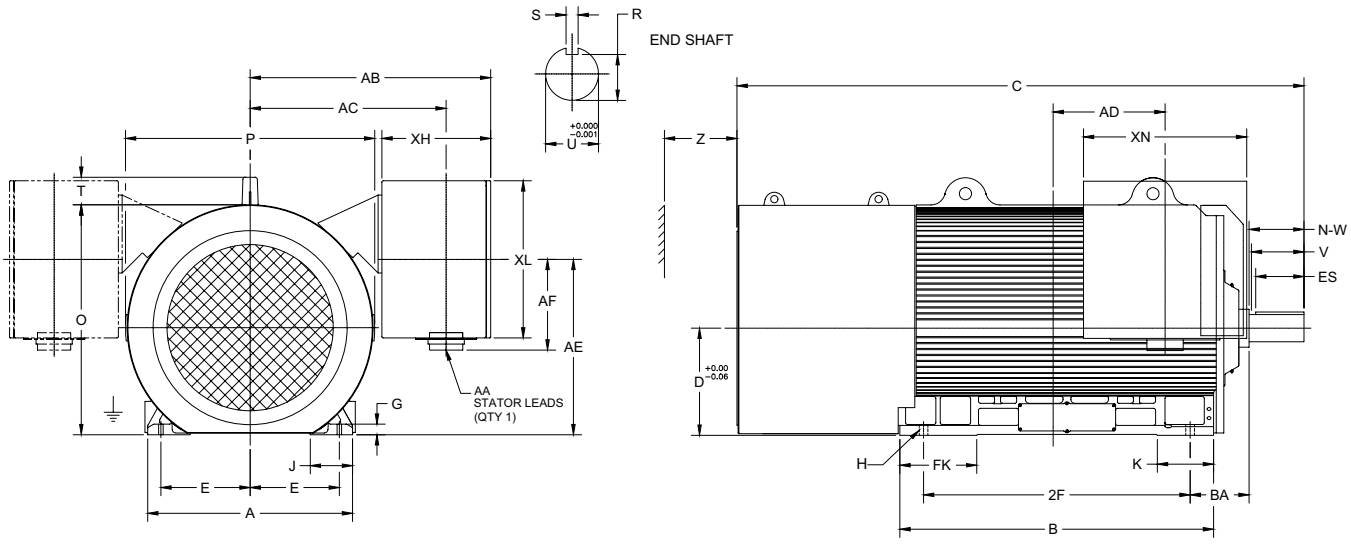
Frame	Max. FL Amps[4]	Approx. Volume	AA	AB	XL	XN	R
507-5013	400	1260	2-4.00	22.67	12.39	16.25	35.14
	600	2500	2-4.00	22.98	14.50	23.95	35.63
	1200	5700	3-3.00	28.83	22.25	22.25	41.30

Notes:

1 Tolerance on “U” dimension will be +0.000 inch - 0.001
2 Dimension “V” represents length of straight part of shaft extension
3 Tolerance on “D” dimension will be + 0.000 inch - 0.060 inch
4 Conduit box size is determined by full load amps

Providing mounting conditions permit, conduit box may be turned so that entrance can be made upward, downward or from either side

MV TEFC 580/7000 Anti-friction Bearing standard dimensions



Frame	Poles	Shaft						Mounting				A	B	C	D³	G	J	K	FK	O	T	P
		Keyway		Key																		
		Width	Depth	Length	N-W	U¹	V²	E	H	BA	2F											
5809	2	0.875	0.505	5.00	6.75	3.375	6.70	11.50	1.10	10.00	32.00	30.72	46.50	87.00	14.50	1.35	6.35	8.80	16.30	32.10	4.20	37.30
	4-8	1.000	0.585	6.50	8.00	4.125	7.75	11.50	1.10	10.00	32.00	30.72	46.50	87.00	14.50	1.35	6.35	8.80	16.30	32.10	4.20	37.30
5810	2	0.875	0.505	5.00	6.75	3.375	6.70	11.50	1.10	10.00	36.00	30.72	46.50	87.00	14.50	1.35	6.35	8.80	16.30	32.10	4.20	37.30
	4-8	1.000	0.585	6.50	8.00	4.125	7.75	11.50	1.10	10.00	36.00	30.72	46.50	87.00	14.50	1.35	6.35	8.80	16.30	32.10	4.20	37.30
5811	4-8	1.000	0.585	8.00	10.00	4.125	9.75	11.50	1.10	10.00	40.00	30.72	54.00	98.50	14.50	1.35	6.35	8.80	16.10	32.10	4.20	37.30
5812	4-8	1.000	0.585	8.00	10.00	4.125	9.75	11.50	1.10	10.00	45.00	30.72	54.00	98.50	14.50	1.35	6.35	8.80	16.10	32.10	4.20	37.30
7010	2	0.875	0.515	5.00	6.75	3.375	6.50	14.77	1.38	9.00	44.10	33.90	51.90	107.00	17.72	1.75	7.00	9.30	12.70	38.00	5.00	41.00
	4-12	1.000	0.580	6.50	8.00	4.500	7.75	14.77	1.38	9.00	44.10	33.90	51.90	121.50	17.72	1.75	7.00	9.30	12.70	38.00	5.00	41.00
7011	4-12	1.000	0.580	6.50	8.00	4.500	7.75	14.77	1.38	9.00	49.21	33.90	57.50	135.50	17.72	1.75	7.00	9.30	13.50	38.00	5.00	41.00

Conduit Box Dimensions

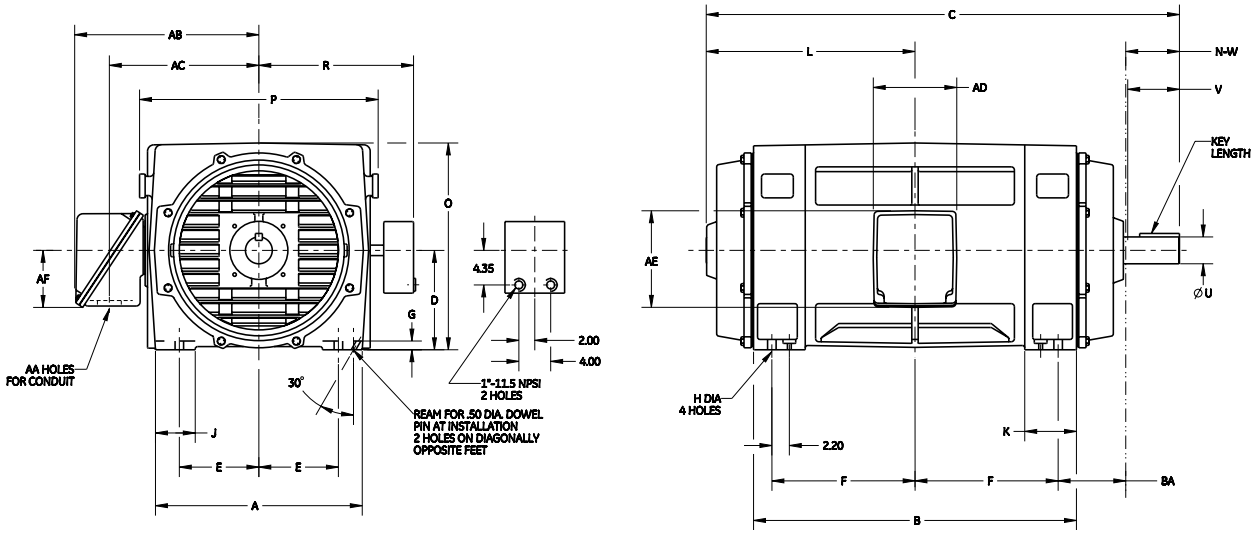
Frame	Voltage	AA	AB	AC	AD	AE	AF	XL	XN	XH
5809/5810	<= 4.1 kV	4" NPT	38.50	31.00	9.75	24.30	15.00	27.72	28.74	17.00
5811/5812	<= 4.1 kV	4" NPT	38.50	31.00	13.00	24.30	15.00	27.72	28.74	17.00
7010	<= 4.1 kV	4" NPT	41.00	32.50	18.50	29.00	15.00	26.00	27.00	18.00
7011	<= 4.1 kV	4" NPT	41.00	32.50	25.00	29.00	15.00	26.00	27.00	18.00

Notes:

1 Tolerance on “U” dimension will be +0.000 inch -0.001 inch
2 Dimension “V” represents length of straight part of shaft extension
3 Tolerance on “D” dimension will be +0.000 inch -0.060 inch

Minimum clearance required for air inlet Z = 12"

MV ODP/WPI 500 Frame



Frame 500

Frame	Shaft						Mounting														
	Keyway		Key Length	N-W	U[1]	V[2]	BA	D[3]	E	F	H	A	B	C	G	J	K	L	O	P	R
	Width	Depth																			
509L	1.000	0.500	10.00	12.00	3.875	11.75	8.50	12.50	10.00	14.00	1.06	26.00	32.60	56.75	1.10	5.00	6.50	22.25	26.00	30.00	19.70
509LS	0.625	0.312	4.00	5.75	2.625	5.50	8.50	12.50	10.00	14.00	1.06	26.00	32.60	50.50	1.10	5.00	6.50	22.25	26.00	30.00	19.70
509LL	0.875	0.437	5.00	6.75	3.375	6.50	8.50	12.50	10.00	14.00	1.06	26.00	32.60	51.50	1.10	5.00	6.50	22.25	26.00	30.00	19.70
5011L	1.000	0.500	10.00	12.00	3.875	11.75	8.50	12.50	10.00	18.00	1.06	23.00	40.60	64.75	1.10	5.00	6.50	26.25	26.00	30.00	19.70
5011LS	0.625	0.312	4.00	5.75	2.625	5.50	8.50	12.50	10.00	18.00	1.06	26.00	40.60	58.50	1.10	5.00	6.50	26.25	26.00	30.00	19.70
5011LL	0.875	0.437	5.00	6.75	3.375	6.50	8.50	12.50	10.00	18.00	1.06	26.00	40.60	59.50	1.10	5.00	6.50	26.25	26.00	30.00	19.70
5013ST	0.750	0.375	4.00	5.75	2.875	5.50	8.50	12.50	10.00	22.50	1.06	26.00	49.60	67.50	1.10	5.00	6.50	30.75	26.00	30.00	19.70
5013S	1.000	0.500	5.50	7.75	3.875	7.50	8.50	12.50	10.00	22.50	1.06	26.00	49.60	69.50	1.10	5.00	6.50	30.75	26.00	30.00	19.70

Conduit Box Dimensions

Frame	Max. FL Amps[5]	Approx. Volume	AA	AB	AC	AD	AE	AF
509-5013	250	700	4.00 NPT	23.00	18.75	10.00	12.13	7.00
	400	1260	2-4.00 NPT	23.50	18.75	16.25	12.35	7.00
	600	2500	2-4.00 NPT	31.50	26.25	12.00	22.68	14.20
	1200	5700	3-3.00 NPT	35.60	28.50	20.00	20.00	10.87

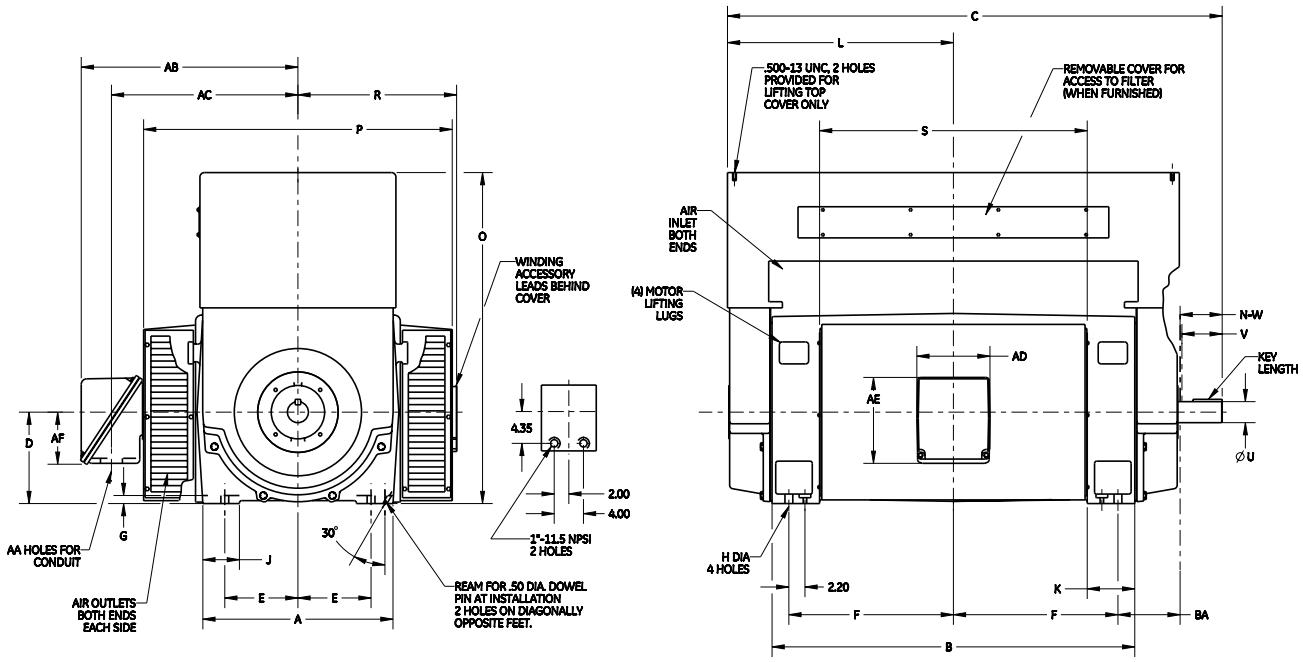
Notes:

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2 Dimension “V” represents length of straight part of shaft extension
3 Tolerance on “D” dimension will be + 0.000 inch - 0.060 inch
5 Conduit box size is determined by full load amps

Providing mounting conditions permit, conduit box may be turned so that entrance can be made upward, downward or from either side

Motors are depicted with representative conduit box. For specific dimensions or a complete motor outline drawing contact your authorized GE outlet

MV WPII 500 Frame



Frame 500

Frame	Shaft						Mounting					A	B	C	G	J	K	L	O	P	R	S
	Keyway		Key Length	N-W	U[1]	V[2]	BA	D[3]	E	F	H											
	Width	Depth																				
509L	1.000	0.500	10.00	12.00	3.875	11.75	8.50	12.50	10.00	14.00	1.06	26.00	32.60	56.90	1.10	5.00	6.50	22.40	45.26	42.20	21.70	19.50
509LS	0.625	0.312	4.00	5.75	2.625	5.50	8.50	12.50	10.00	14.00	1.06	26.00	32.60	50.65	1.10	5.00	6.50	22.40	45.26	42.20	21.70	19.50
509LL	0.875	0.437	5.00	6.75	3.375	6.50	8.50	12.50	10.00	14.00	1.06	26.00	32.60	51.65	1.10	5.00	6.50	22.40	45.26	42.20	21.70	19.50
5011L	1.000	0.500	10.00	12.00	3.875	11.75	8.50	12.50	10.00	18.00	1.06	26.00	40.60	64.90	1.10	5.00	6.50	26.40	45.26	42.20	21.70	27.50
5011LS	0.625	0.312	4.00	5.75	2.625	5.50	8.50	12.50	10.00	18.00	1.06	26.00	40.60	58.65	1.10	5.00	6.50	26.40	45.26	42.20	21.70	27.50
5011LL	0.875	0.437	5.00	6.75	3.375	6.50	8.50	12.50	10.00	18.00	1.06	26.00	40.60	59.65	1.10	5.00	6.50	26.40	45.26	42.20	21.70	27.50
5013ST	0.750	0.375	4.00	5.75	2.875	5.50	8.50	12.50	10.00	22.50	1.06	26.00	49.60	67.60	1.70	5.00	6.50	30.90	45.26	42.20	21.70	36.50
5013S	1.000	0.500	5.50	7.75	3.875	7.50	8.50	12.50	10.00	22.50	1.06	26.00	49.60	69.65	1.70	5.00	6.50	30.90	45.26	42.20	21.70	36.50

Conduit Box Dimensions

Frame	Max. FL Amps[5]	Approx. Volume	AA	AB	AC	AD	AE	AF
509-5013	250	700	4.00 NPT	29.60	25.30	10.00	12.13	7.00
	400	1260	2-4.00 NPT	29.60	25.30	16.25	12.35	7.00
	600	2500	2-4.00 NPT	31.50	26.25	12.00	22.68	14.20
	1200	5700	3-3.00 NPT	35.60	28.50	20.00	20.00	10.87

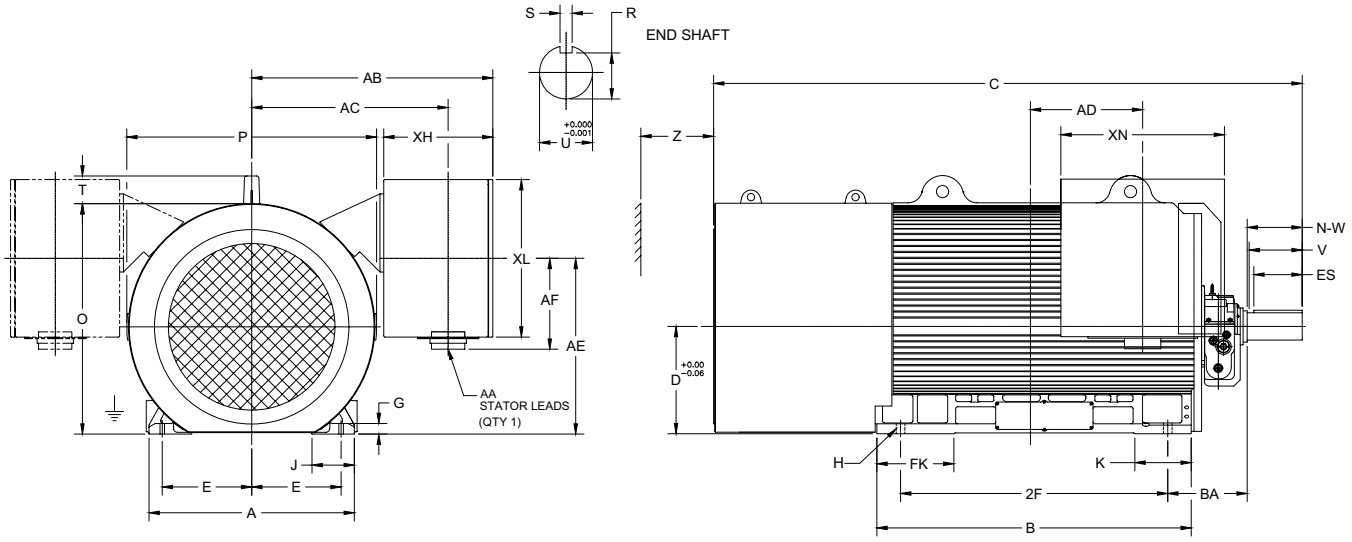
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Providing mounting conditions permit, conduit box may be turned so that entrance can be made upward, downward or from either side

Motors are depicted with representative conduit box. For specific dimensions or a complete motor outline drawing contact your authorized GE outlet

MV TEFC 580/7000 Sleeve Bearing standard dimensions



Frame	Poles	Shaft						Mounting				A	B	C	D³	G	J	K	FK	O	T	P
		Keyway		Key																		
		Width	Depth	Length	N-W	U¹	V²	E	H	BA	2F											
5809	2	0.875	0.505	5.00	6.75	3.375	6.70	11.50	1.10	10.00	32.00	30.72	46.50	89.00	14.50	1.35	6.35	8.80	16.30	32.10	4.20	37.30
	4-8	1.000	0.585	6.50	8.00	4.125	7.75	11.50	1.10	13.50	32.00	30.72	46.50	100.00	14.50	1.35	6.35	8.80	16.30	32.10	4.20	37.30
5810	2	0.875	0.505	5.00	6.75	3.375	6.70	11.50	1.10	10.00	36.00	30.72	46.50	89.00	14.50	1.35	6.35	8.80	16.30	32.10	4.20	37.30
	4-8	1.000	0.585	6.50	8.00	4.125	7.75	11.50	1.10	13.50	36.00	30.72	46.50	100.00	14.50	1.35	6.35	8.80	16.30	32.10	4.20	37.30
5811	2	0.875	0.505	5.00	6.75	3.375	6.70	11.50	1.10	10.00	40.00	30.72	54.00	104.00	14.50	1.35	6.35	8.80	16.10	32.10	4.20	37.30
	4-8	1.000	0.585	8.00	10.00	4.125	9.75	11.50	1.10	13.50	40.00	30.72	54.00	109.00	14.50	1.35	6.35	8.80	16.10	32.10	4.20	37.30
5812	2	0.875	0.505	5.00	6.75	3.375	6.70	11.50	1.10	10.00	45.00	30.72	54.00	104.00	14.50	1.35	6.35	8.80	16.10	32.10	4.20	37.30
	4-8	1.000	0.585	8.00	10.00	4.125	9.75	11.50	1.10	13.50	45.00	30.72	54.00	109.00	14.50	1.35	6.35	8.80	16.10	32.10	4.20	37.30
7010	2	0.875	0.515	5.00	6.75	3.375	6.50	14.77	1.38	13.20	44.10	33.90	51.90	111.00	17.72	1.75	7.00	9.30	12.70	38.00	5.00	41.00
	4-12	1.000	0.580	6.50	8.00	4.500	7.75	14.77	1.38	16.50	44.10	33.90	51.90	129.00	17.72	1.75	7.00	9.30	12.70	38.00	5.00	41.00
7011	2	0.875	0.515	5.00	6.75	3.375	6.50	14.77	1.38	13.20	49.21	33.90	57.50	130.00	17.72	1.75	7.00	9.30	13.50	38.00	5.00	41.00
	4-12	1.000	0.580	6.50	8.00	4.500	7.75	14.77	1.38	16.50	49.21	33.90	57.50	143.00	17.72	1.75	7.00	9.30	13.50	38.00	5.00	41.00

Conduit Box Dimensions

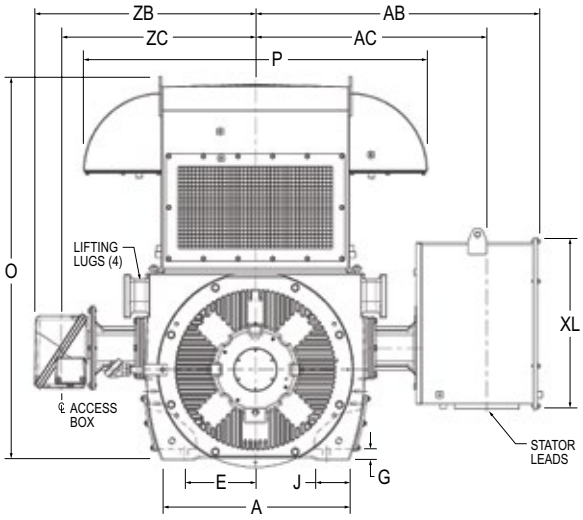
Frame	Voltage	AA	AB	AC	AD	AE	AF	XL	XN	XH
5809/5810	<= 4.1 kV	4" NPT	38.50	31.00	9.75	24.30	15.00	27.72	28.74	17.00
5811/5812	<= 4.1 kV	4" NPT	38.50	31.00	13.00	24.30	15.00	27.72	28.74	17.00
7010	<= 4.1 kV	4" NPT	41.00	32.50	18.50	26.00	27.00	26.00	27.00	18.00
7011	<= 4.1 kV	4" NPT	41.00	32.50	25.00	26.00	27.00	26.00	27.00	18.00

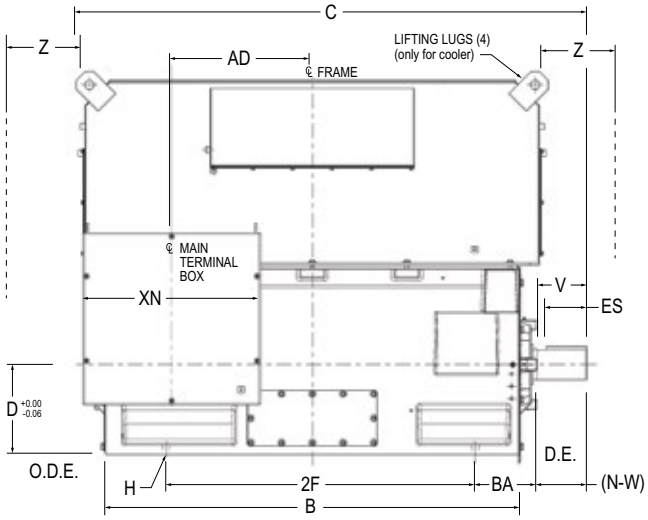
Notes:

1 Tolerance on “U” dimension will be +0.000 inch -0.001 inch
2 Dimension “V” represents length of straight part of shaft extension
3 Tolerance on “D” dimension will be +0.000 inch -0.060 inch

Minimum clearance required for air inlet Z = 12"

MV WPII 580 Anti-friction Bearing standard dimensions





Frame	Poles	Shaft						Mounting				A	B	C	D[3]	G	J	O	P	ZB	ZC
		Keyway		Key Length	N-W	U[1]	V[2]	E	H	BA	2F										
		Width	Depth																		
5810	2	1.00	0.575	5.50	7.75	3.875	7.50	11.50	1.18	10.00	36.00	30.4	54.00	70.0	14.50	1.64	5.52	62.0	55.6	35.3	31.1
	4-8	1.25	0.715	6.50	8.00	4.875	7.75	11.50	1.18	10.00	36.00	30.4	54.00	70.0	14.50	1.64	5.52	62.0	55.6	35.3	31.1
5811	2	1.00	0.575	5.50	7.75	3.875	7.50	11.50	1.18	10.00	40.00	30.4	54.00	70.0	14.50	1.64	5.52	62.0	55.6	35.3	31.1
	4-8	1.25	0.715	6.50	8.00	4.875	7.75	11.50	1.18	10.00	40.00	30.4	54.00	70.0	14.50	1.64	5.52	62.0	55.6	35.3	31.1
5812	4-8	1.25	0.715	6.50	8.00	4.875	7.75	11.50	1.18	10.00	45.00	30.4	67.00	82.6	14.50	1.64	5.52	62.0	55.6	35.3	31.1
5813	4-8	1.25	0.715	6.50	8.00	4.875	7.75	11.50	1.18	10.00	50.00	30.4	67.00	82.6	14.50	1.64	5.52	62.0	55.6	35.3	31.1

Conduit Box Dimensions

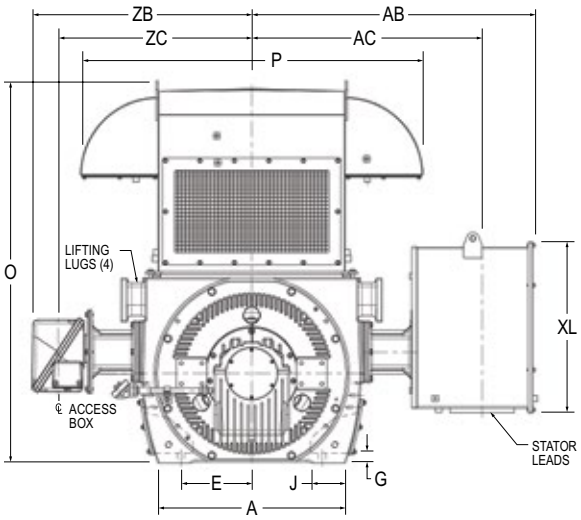
Frame	Voltage	AA	AB	AC	AD	XL	XN
5810/5811	<= 4.1 kV	4.00	44.81	37.44	16.24	27.72	28.74
5812/5813	<= 4.1 kV	4.00	44.81	37.44	22.74	27.72	28.74

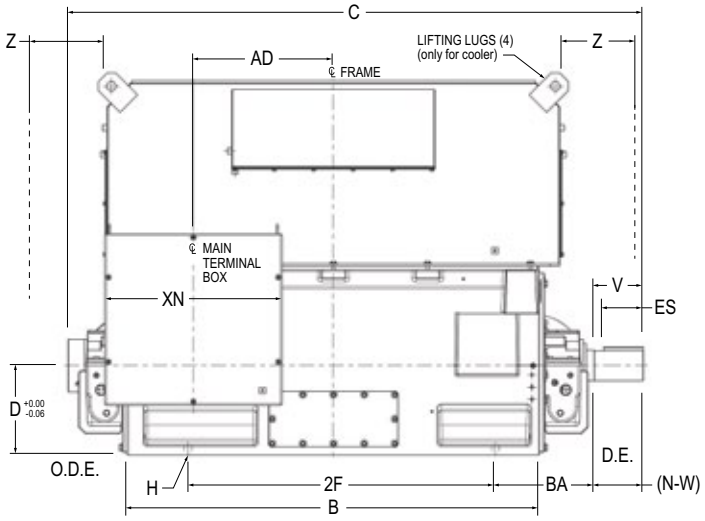
Notes:

1 Tolerance on “U” dimension will be +0.000 inch -0.001 inch
2 Dimension “V” represents length of straight part of shaft extension
3 Tolerance on “D” dimension will be +0.000 inch -0.060 inch

Minimum clearance required for air inlet Z = 12"

MV WPII 580 Sleeve Bearing standard dimensions





Frame	Poles	Shaft						Mounting				A	B	C	D[3]	G	J	O	P	ZB	ZC
		Keyway		Key Length	N-W	U[1]	V[2]	E	H	BA	2F										
		Width	Depth																		
5810	2	1.00	0.575	5.50	7.75	3.875	7.50	11.50	1.18	10.00	36.00	30.4	54.00	77.0	14.50	1.64	5.52	62.0	55.6	35.3	31.1
	4-8	1.25	0.715	6.50	8.00	4.875	7.75	11.50	1.18	16.00	36.00	30.4	54.00	80.5	14.50	1.64	5.52	62.0	55.6	35.3	31.1
5811	2	1.00	0.575	5.50	7.75	3.875	7.50	11.50	1.18	10.00	40.00	30.4	54.00	77.0	14.50	1.64	5.52	62.0	55.6	35.3	31.1
	4-8	1.25	0.715	6.50	8.00	4.875	7.75	11.50	1.18	16.00	40.00	30.4	54.00	80.5	14.50	1.64	5.52	62.0	55.6	35.3	31.1
5812	2	1.00	0.575	5.50	7.75	3.875	7.50	11.50	1.18	10.00	45.00	30.4	67.00	90.0	14.50	1.64	5.52	62.0	55.6	35.3	31.1
	4-8	1.25	0.715	6.50	8.00	4.875	7.75	11.50	1.18	16.00	45.00	30.4	67.00	93.5	14.50	1.64	5.52	62.0	55.6	35.3	31.1
5813	2	1.00	0.575	5.50	7.75	3.875	7.50	11.50	1.18	10.00	50.00	30.4	67.00	90.0	14.50	1.64	5.52	62.0	55.6	35.3	31.1
	4-8	1.25	0.715	6.50	8.00	4.875	7.75	11.50	1.18	16.00	50.00	30.4	67.00	93.5	14.50	1.64	5.52	62.0	55.6	35.3	31.1

Conduit Box Dimensions

Frame	Voltage	AA	AB	AC	AD	XL	XN
5810/5811	<= 4.1 kV	4.00	44.81	37.44	16.24	27.72	28.74
5812/5813	<= 4.1 kV	4.00	44.81	37.44	22.74	27.72	28.74

Notes:

1 Tolerance on “U” dimension will be +0.000 inch -0.001 inch
2 Dimension “V” represents length of straight part of shaft extension
3 Tolerance on “D” dimension will be +0.000 inch -0.060 inch

Minimum clearance required for air inlet Z = 12"

Quantum LMV Standard Power / Speed Charts

Frames
509
5011
5013

LV TEFC 500 Frame 460V, 575V			
HP	2P	4P	6P
300			
350			
400			
450			
500			
600			
700			

LV TEFC 500 Frame IEEE 841 460V, 575V			
HP	2P	4P	6P
300			
350			
400			
450			
500			

MV TEFC 500 Frame 2300V, 4000V			
HP	2P	4P	6P
200			
250			
300			
350			
400			
450			
500			
600			
700			
800			

MV TEFC 500 Frame IEEE 841 2300V, 4000V			
HP	2P	4P	6P
200			
250			
300			
350			
400			
450			
500			

Frames
509
5011
5013

MV ODP/WPI 500 Frame AF Bearing			
HP	2P	4P	6P
200			
250			
300			
350			
400			
450			
500			
600			
700			
800			
900			
1000			

MV WPII 500 Frame AF Bearing			
HP	2P	4P	6P
200			
250			
300			
350			
400			
450			
500			
600			
700			
800			
900			
1000			

MV ODP/WPI 500 Frame Sleeve Bearing			
HP	2P	4P	6P
600			
700			
800			
900			
1000			

MV WPII 500 Frame Sleeve Bearing			
HP	2P	4P	6P
600			
700			
800			
900			
1000			

Quantum LMV Standard Power / Speed Charts

Frames
5810
5812
7010
7011

MV TEFC 580/7000 Frame 2300/4000V AF Bearing

HP	2P	4P	6P
700			
800			
900			
1000			
1250			
1500			
1750			

MV TEFC 580/7000 Frame 2300/4000V Sleeve Bearing

HP	2P	4P	6P
700			
800			
900			
1000			
1250			
1500			
1750			

Frames
5810
5811
5812
5813

MV WPII 580 Frame 460V, 60Hz

HP	2P	4P	6P	8P
450				
500				
600				
700				
800				
900				
1000				

MV WPII 580 Frame 4160V or 2300V, 60Hz

HP	2P	4P	6P	8P
700				
800				
900				
1000				
1250				*
1500				
1750			*	
2000				
2250		*		
2500	*			

MV WPII 580 Frame 6600V, 60Hz

HP	2P	4P	6P	8P
500				
600				
700				
800				
900				
1000				
1250				
1500				
1750				
2000				

MV WPII 580 Notes:
* Rating with F Rise
460V offered max up to 1000 HP
2 pole ratings are always offered in 5811 or 5813 frames.
4, 6, and 8 pole can be offered in different frames per casting: (5810/5811 short frame) and (5812/5813 long frame)

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