



E3 PMM

Energy Efficient ESP Permanent Magnet Motor

AILift designs and manufactures industry leading permanent magnet motors for use with electrical submersible pumps. Designed by an expert team with countless years of experience in the ESP industry, the E3 PMM solves many of the production challenges faced by operators while nullifying several industry misconceptions around permanent magnet technology.

Standard VSD – Lower Lifting Cost – Increased Reliability

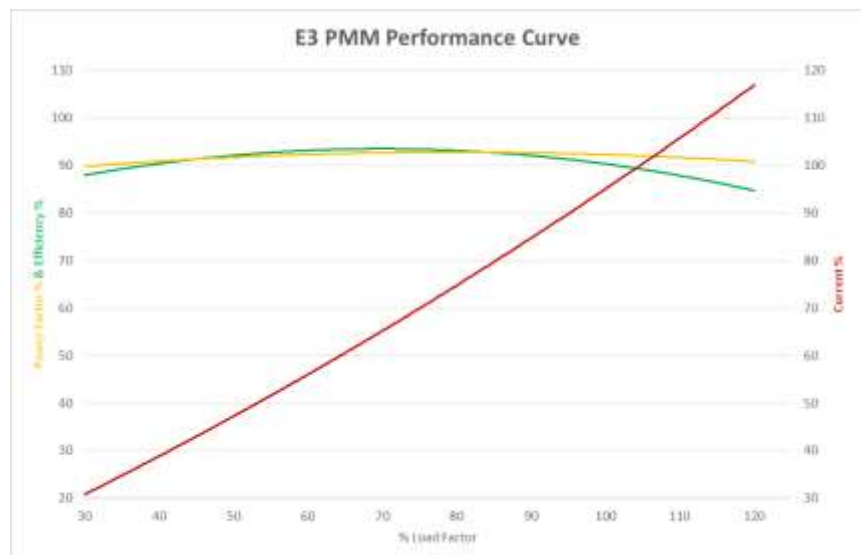
AILift's mission is simple – deliver a robust permanent magnet motor at an economical price point that can reduce overall lifting cost to produce hydrocarbons. This objective was accomplished by creating the next generation permanent magnet motor – the E3 PMM. The E3 PMM offers similar advantages to conventional permanent magnet motors including a consistent power factor across the load curve and higher horsepower per rotor for an overall shorter motor. However, the patented E3 PMM establishes a new economic benchmark by eliminating the need for a special variable speed drive making it completely interchangeable with existing ESP surface equipment.

E3 PMM Advantages

- Eliminate special VSD
- Reduce Power Costs
- Increase Efficiency
- Increase Power Factor
- Reduce Operating Temp
- Lower Voltage Drop
- Reduce Scale
- Handle Gas Slugs
- Lower Pump Set Depth
- Increase Production

E3 PMM Features

- 4 Pole (120Hz = 3600RPM)
- 204C Rated
- 400 Series up to 432HP
- 500 Series up to 1000HP
- 0.92+ Power Factor
- 92+% Efficient
- Optional Corrosion Resistant
- Standard Bolt Pattern
- Any downhole gauge



E3 PMM - 350 Series							
Power		Length		Weight		Voltage by Current	
HP	kW	ft	m	lbs	kg	36 A	44 A
40	29.8	7.81	2.38	198	90	570	---
60	44.8	10.36	3.16	258	117	860	---
80	59.7	12.89	3.93	329	149	1145	---
100	74.6	15.45	4.71	390	177	1430	---
120	89.5	18.01	5.49	452	205	---	1272
140	104.4	20.57	6.27	523	237	---	1635
160	119.4	23.09	7.04	587	266	---	1855
180	134.3	25.65	7.82	655	297	---	2085
200	149.2	28.04	8.55	723	328	---	2350

4 Pole Construction

204C Rated

Standard Offering: Carbon Steel Head, Base & Housing

Corrossion Resistant: Stainless Steel Head & Base, 9Cr1Mo Housing

E3 PMM - 450 Series										
Power		Length		Weight		Voltage by Current				
HP	KW	ft	m	lbs	kg	32 A	42 A	50 A	59 A	72 A
40	29.8	5.51	1.68	183	83	640	500	440	---	---
60	44.7	6.79	2.07	243	110	960	765	650	---	---
80	59.6	8.07	2.46	302	137	1280	1005	860	---	---
100	74.6	9.35	2.85	362	164	1580	1245	1070	---	---
120	89.5	10.63	3.24	421	191	1850	1455	1280	1055	---
140	104.4	11.91	3.63	481	218	2145	1690	1490	1230	---
160	119.3	13.15	4.01	540	245	2450	1920	1700	1405	---
180	134.2	14.46	4.41	600	272	2750	2160	1910	1580	---
200	149.2	15.71	4.79	659	299	3050	2400	2120	1755	---
220	164.1	16.99	5.18	719	326	3350	2650	2325	1930	---
260	193.9	19.55	5.96	838	380	---	3200	2745	2280	---
300	223.8	22.11	6.74	957	434	---	---	3160	2630	2120
340	253.6	24.67	7.52	1076	488	---	---	---	2950	2400
380	283.4	27.26	8.31	1191	540	---	---	---	3315	2680
420	313.3	29.82	9.09	1310	594	---	---	---	3641	2955

4 Pole Construction

204C Rated

Standard Offering: Carbon Steel Head, Base & Housing

Corrossion Resistant: Stainless Steel Head & Base, 9Cr1Mo Housing

E3 PMM - 562 Series											
Power		Length		Weight		Voltage by Current					
HP	kW	ft	m	lbs	kg	41 A	48 A	58 A	73 A	96 A	142 A
88	65.6	6.50	1.98	238	108	1062	910	---	---	---	---
132	98.5	7.91	2.41	362	164	1592	1364	---	---	---	---
176	131.3	9.35	2.85	505	229	2123	1818	---	---	---	---
220	164.1	10.76	3.28	608	276	---	2273	1894	---	---	---
264	196.9	12.20	3.72	732	332	---	2728	2273	---	---	---
308	229.8	13.62	4.15	855	388	---	---	2651	2121	---	---
352	262.6	15.39	4.69	979	444	---	---	3030	2424	---	---
396	295.4	16.50	5.03	1102	500	---	---	---	2727	2045	---
440	328.2	17.91	5.46	1226	556	---	---	---	3028	2272	---
484	361.1	19.36	5.90	1349	612	---	---	---	3330	2498	---
528	393.9	20.77	6.33	1473	668	---	---	---	---	2725	1817
572	426.7	20.77	6.33	1596	724	---	---	---	---	2952	1968
616	459.5	23.62	7.20	1720	780	---	---	---	---	3180	2120
660	492.4	25.07	7.64	1843	836	---	---	---	---	3407	2271
704	525.2	26.48	8.07	1967	892	---	---	---	---	---	2422
748	558.0	27.92	8.51	2090	948	---	---	---	---	---	2573
792	590.8	29.36	8.95	2213	1004	---	---	---	---	---	2724
836	623.7	30.77	9.38	2337	1060	---	---	---	---	---	2875
880	656.5	32.22	9.82	2460	1116	---	---	---	---	---	3026
924	689.3	33.63	10.25	2584	1172	---	---	---	---	---	3177
968	722.1	35.07	10.69	2707	1228	---	---	---	---	---	3328

4 Pole Construction

204C Rated

Standard Offering: Carbon Steel Head, Base & Housing

Corrosion Resistant: Stainless Steel Head & Base, 9Cr1Mo Housing