

## 5.2.6 08004 Motor



Order code	500205008004
Voltage	12 VDC
Power	0.8 kW
Insulation	F
Number of Terminals	1
Housing Diameter	3" (80 mm)
Length Dimension	5.860" (149 mm)
IP Ratings	IP54
UL Listed	No
Type	Permanent Magnet

Fixed Clearance Amp Draw for 08004 Motor

Pressure psi (bar)	17-100	17-120	17-150	17-190	17-270	13-150	13-200	13-250	13-270	13-330	13-380	13-510
	0.022 in <sup>3</sup> (0.35 cc)	0.026 in <sup>3</sup> (0.43 cc)	0.032 in <sup>3</sup> (0.53 cc)	0.041 in <sup>3</sup> (0.67 cc)	0.058 in <sup>3</sup> (0.96 cc)	0.073 in <sup>3</sup> (1.19 cc)	0.097 in <sup>3</sup> (1.59 cc)	0.121 in <sup>3</sup> (1.98 cc)	0.131 in <sup>3</sup> (2.14 cc)	0.160 in <sup>3</sup> (2.62 cc)	0.184 in <sup>3</sup> (3.01 cc)	0.247 in <sup>3</sup> (4.05 cc)
50 (3)	26	26	29	29	32	33	36	37	-	-	-	-
250 (17)	30	30	34	35	41	45	52	57	-	-	-	-
500 (34)	34	36	41	43	52	60	73	83	-	-	-	-
750 (51)	39	41	48	51	64	76	94	109	-	-	-	-
1000 (68)	43	47	55	59	75	91	115	136	-	-	-	-
1250 (86)	48	52	61	67	87	107	136	163	-	-	-	-
1500 (103)	52	58	68	75	98	123	157	190	-	-	-	-
1750 (121)	57	63	75	83	110	139	179	-	-	-	-	-
2000 (138)	61	69	82	91	122	155	201	-	-	-	-	-
2250 (155)	66	74	89	100	133	171	-	-	-	-	-	-
2500 (172)	71	80	96	108	145	187	-	-	-	-	-	-
2750 (190)	75	85	103	116	157	204	-	-	-	-	-	-
3000 (207)	80	91	110	124	169	-	-	-	-	-	-	-
3250 (224)	85	97	117	133	181	-	-	-	-	-	-	-

Current values are DC Amps

Fixed Clearance Flows for 08004 Motor																									
Pressure psi (bar)	17-100		17-120		17-150		17-190		17-270		13-150		13-200		13-250		13-270		13-330		13-380		13-510		
	0.022 in <sup>3</sup> (0.35 cc)		0.026 in <sup>3</sup> (0.43 cc)		0.032 in <sup>3</sup> (0.53 cc)		0.041 in <sup>3</sup> (0.67 cc)		0.058 in <sup>3</sup> (0.96 cc)		0.073 in <sup>3</sup> (1.19 cc)		0.097 in <sup>3</sup> (1.59 cc)		0.121 in <sup>3</sup> (1.98 cc)		0.131 in <sup>3</sup> (2.14 cc)		0.160 in <sup>3</sup> (2.62 cc)		0.184 in <sup>3</sup> (3.01 cc)		0.247 in <sup>3</sup> (4.05 cc)		
	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm
50 (3)	0.48	1.82	0.58	2.18	0.71	2.69	0.83	3.13	1.16	4.38	1.56	5.89	2.04	7.73	2.54	9.61	-	-	-	-	-	-	-	-	-
250 (17)	0.47	1.77	0.56	2.12	0.69	2.60	0.80	3.02	1.10	4.17	1.46	5.53	1.88	7.12	2.29	8.68	-	-	-	-	-	-	-	-	-
500 (34)	0.45	1.71	0.54	2.04	0.66	2.50	0.76	2.88	1.04	3.93	1.35	5.12	1.70	6.44	2.03	7.68	-	-	-	-	-	-	-	-	-
750 (51)	0.44	1.65	0.52	1.97	0.63	2.39	0.73	2.75	0.98	3.70	1.25	4.74	1.54	5.83	1.79	6.79	-	-	-	-	-	-	-	-	-
1000 (68)	0.42	1.59	0.50	1.89	0.61	2.29	0.69	2.62	0.92	3.48	1.16	4.38	1.39	5.27	1.58	5.98	-	-	-	-	-	-	-	-	-
1250 (86)	0.40	1.53	0.48	1.81	0.58	2.19	0.66	2.50	0.86	3.27	1.07	4.05	1.25	4.74	1.38	5.22	-	-	-	-	-	-	-	-	-
1500 (103)	0.39	1.47	0.46	1.73	0.55	2.09	0.63	2.37	0.81	3.07	0.99	3.73	1.12	4.24	1.19	4.51	-	-	-	-	-	-	-	-	-
1750 (121)	0.37	1.40	0.44	1.65	0.52	1.98	0.59	2.25	0.76	2.87	0.90	3.42	0.99	3.76	-	-	-	-	-	-	-	-	-	-	-
2000 (138)	0.35	1.32	0.41	1.57	0.50	1.87	0.56	2.12	0.71	2.67	0.82	3.12	0.87	3.30	-	-	-	-	-	-	-	-	-	-	-
2250 (155)	0.33	1.25	0.39	1.48	0.47	1.76	0.53	1.99	0.65	2.47	0.74	2.82	-	-	-	-	-	-	-	-	-	-	-	-	-
2500 (172)	0.31	1.16	0.37	1.38	0.44	1.65	0.49	1.86	0.60	2.28	0.67	2.52	-	-	-	-	-	-	-	-	-	-	-	-	-
2750 (190)	0.28	1.07	0.34	1.28	0.40	1.53	0.45	1.72	0.55	2.07	0.59	2.23	-	-	-	-	-	-	-	-	-	-	-	-	-
3000 (207)	0.26	0.98	0.31	1.17	0.37	1.40	0.42	1.57	0.49	1.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3250 (224)	0.23	0.87	0.28	1.06	0.34	1.27	0.38	1.42	0.44	1.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Flows are for bled-to-reservoir pumps. Bled-to-suction pumps will provide lower flows and have lower pressure limits.

Fixed Clearance S2 and S3 Thermals for 08004 Motor																									
Pressure psi (bar)	17-100		17-120		17-150		17-190		17-270		13-150		13-200		13-250		13-270		13-330		13-380		13-510		
	0.022 in <sup>3</sup> (0.35 cc)		0.026 in <sup>3</sup> (0.43 cc)		0.032 in <sup>3</sup> (0.53 cc)		0.041 in <sup>3</sup> (0.67 cc)		0.058 in <sup>3</sup> (0.96 cc)		0.073 in <sup>3</sup> (1.19 cc)		0.097 in <sup>3</sup> (1.59 cc)		0.121 in <sup>3</sup> (1.98 cc)		0.131 in <sup>3</sup> (2.14 cc)		0.160 in <sup>3</sup> (2.62 cc)		0.184 in <sup>3</sup> (3.01 cc)		0.247 in <sup>3</sup> (4.05 cc)		
	S2*	S3*	S2*	S3*	S2*	S3*	S2*	S3*	S2*	S3*	S2*	S3*	S2*	S3*	S2*	S3*	S2*	S3*	S2*	S3*	S2*	S3*	S2*	S3*	S2*
50 (3)	18.9	43%	18.9	42%	18.8	42%	18.7	42%	18.5	41%	18.2	40%	17.8	39%	17.5	38%	-	-	-	-	-	-	-	-	-
250 (17)	17.7	39%	17.3	38%	16.9	37%	16.5	36%	15.5	33%	14.3	30%	12.9	26%	11.6	24%	-	-	-	-	-	-	-	-	-
500 (34)	16.1	35%	15.6	33%	14.8	31%	14.1	29%	12.3	25%	10.4	21%	8.4	17%	6.8	14%	-	-	-	-	-	-	-	-	-
750 (51)	14.8	31%	14.0	29%	12.9	26%	12.0	24%	9.7	20%	7.5	15%	5.4	12%	3.8	9%	-	-	-	-	-	-	-	-	-
1000 (68)	13.5	28%	12.5	26%	11.2	23%	10.2	21%	7.7	16%	5.4	12%	3.4	8%	2.0	6%	-	-	-	-	-	-	-	-	-
1250 (86)	12.3	25%	11.2	23%	9.7	20%	8.6	17%	6.0	13%	3.8	9%	2.0	6%	1.0	4%	-	-	-	-	-	-	-	-	-
1500 (103)	11.2	23%	10.0	20%	8.4	17%	7.2	15%	4.6	10%	2.6	7%	1.2	4%	0.5	3%	-	-	-	-	-	-	-	-	-
1750 (121)	10.2	20%	8.9	18%	7.2	15%	6.1	13%	3.5	8%	1.8	5%	0.7	3%	0.2	2%	-	-	-	-	-	-	-	-	-
2000 (138)	9.2	19%	7.9	16%	6.2	13%	5.1	11%	2.7	7%	1.2	4%	0.4	3%	-	-	-	-	-	-	-	-	-	-	-
2250 (155)	8.4	17%	7.0	14%	5.3	11%	4.2	10%	2.0	6%	0.8	4%	0.2	2%	-	-	-	-	-	-	-	-	-	-	-
2500 (172)	7.6	15%	6.2	13%	4.6	10%	3.5	8%	1.5	5%	0.5	3%	-	-	-	-	-	-	-	-	-	-	-	-	-
2750 (190)	6.9	14%	5.5	12%	3.9	9%	2.9	7%	1.1	4%	0.3	2%	-	-	-	-	-	-	-	-	-	-	-	-	-
3000 (207)	6.2	13%	4.9	11%	3.3	8%	2.4	6%	0.8	4%	0.2	2%	-	-	-	-	-	-	-	-	-	-	-	-	-
3250 (224)	-	-	4.3	10%	2.8	7%	1.9	6%	0.6	3%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\* S2= Single run times in minutes, S3 = % of a repeating 10 minute cycle