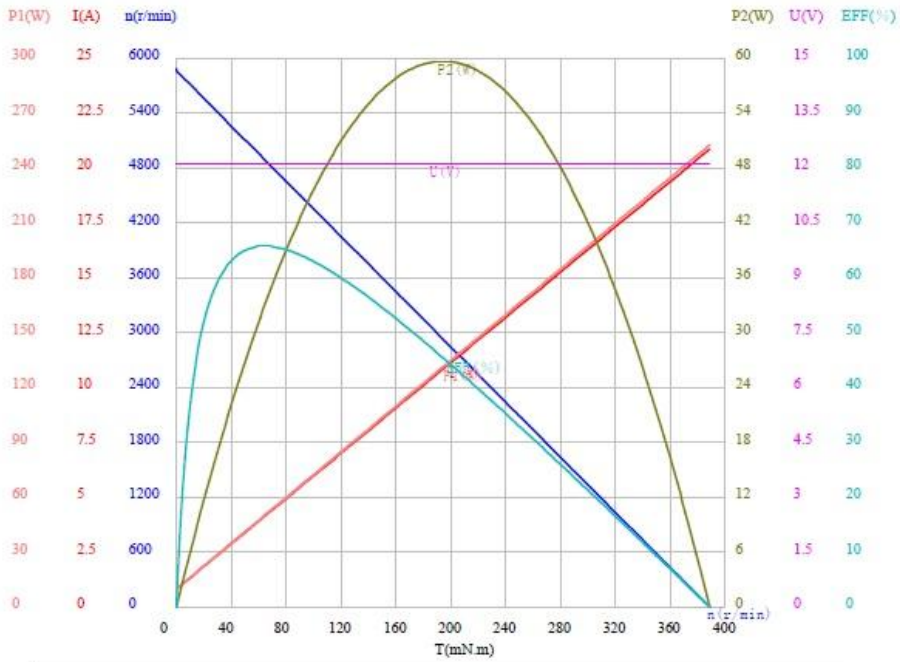
am-3108 and am-3109 Motor Curve

Brushed 12 Volt DC Motor and Encoder

Date: 3/21/2025



	U(V)	I(A)	P1(W)	T(mN.m)	n(r/min)	P2(W)	EFF(%)	P.F
No Load Point	12.11	0.741	8.978	0.0	5888	0.000	0.000	0.999
Stall Point	12.11	20.86	252.7	388.7	0	0	0.000	1.000
Max Torque	12.11	20.86	252.7	388.7	0	0.000	0.000	1.000
Max Output Power	12.11	10.85	131.4	194.6	2929	59.67	45.40	1.000
Max Efficiency	12.11	4.179	50.62	65.1	4882	33.29	65.76	1.000
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U(V)	I(A)	P1(W)	T(mN.m)	n(r/min)	P2(W)	EFF(%)	P.F
12.11	0.741	8.978	0.0	5888	0.000	0.000	0.999
12.11	1.246	15.10	8.2	5740	4.955	32.81	1.000
12.11	1.752	21.23	18.0	5592	10.57	49.80	1.000
12.11	2.258	27.35	27.9	5444	15.88	58.06	1.000
12.11	2.763	33.47	37.7	5296	20.89	62.40	1.000
12.11	3.269	39.59	47.5	5148	25.59	64.63	1.000
12.11	3.774	45.72	57.3	5000	29.99	65.59	1.000
12.11	4.280	51.84	67.1	4852	34.08	65.74	1.000
12.11	4.785	57.96	76.9	4704	37.87	65.34	1.000
12.11	5.291	64.09	86.7	4556	41.36	64.54	1.000
12.11	5.796	70.21	96.5	4408	44.55	63.44	1.000
12.11	6.302	76.33	106.3	4260	47.43	62.13	1.000
12.11	6.807	82.46	116.1	4112	50.00	60.64	1.000
12.11	7.313	88.58	125.9	3964	52.27	59.01	1.000
12.11	7.819	94.70	135.7	3816	54.24	57.28	1.000
12.11	8.324	100.8	145.5	3668	55.91	55.45	1.000
12.11	8.830	107.0	155.3	3520	57.27	53.55	1.000
12.11	9.335	113.1	165.1	3373	58.32	51.58	1.000
12.11	9.841	119.2	174.9	3225	59.08	49.56	1.000
12.11	10.35	125.3	184.7	3077	59.53	47.50	1.000
12.11	10.85	131.4	194.6	2929	59.67	45.40	1.000
12.11	11.36	137.6	204.4	2781	59.52	43.26	1.000
12.11	11.86	143.7	214.2	2633	59.05	41.10	1.000
12.11	12.37	149.8	224.0	2485	58.29	38.91	1.000
12.11	12.87	155.9	233.8	2337	57.22	36.69	1.000
12.11	13.38	162.1	243.6	2189	55.84	34.46	1.000
12.11	13.89	168.2	253.4	2041	54.17	32.21	1.000
12.11	14.39	174.3	263.2	1893	52.19	29.94	1.000
12.11	14.90	180.4	273.0	1745	49.90	27.66	1.000
12.11	15.40	186.6	282.8	1597	47.31	25.36	1.000
12.11	15.91	192.7	292.6	1449	44.42	23.06	1.000
12.11	16.41	198.8	302.4	1301	41.23	20.74	1.000
12.11	16.92	204.9	312.2	1153	37.73	18.41	1.000
12.11	17.42	211.0	322.0	1005	33.92	16.07	1.000
12.11	17.93	217.2	331.8	858	29.81	13.73	1.000
12.11	18.44	223.3	341.6	710	25.40	11.38	1.000
12.11	18.94	229.4	351.4	562	20.69	9.017	1.000
12.11	19.45	235.5	361.2	414	15.67	6.652	1.000
12.11	19.95	241.7	371.1	266	10.35	4.281	1.000
12.11	20.46	247.8	380.9	118	4.720	1.904	1.000
12.11	20.86	252.7	388.7	0	0.000	0.000	1.000