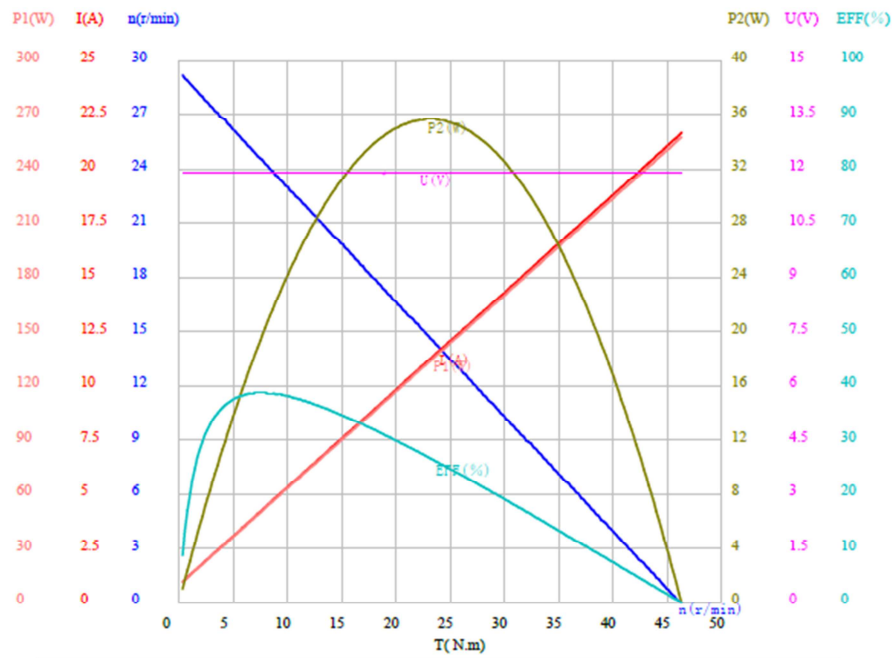# AM-3656 and AM-3653 Technical Information

PG188 gearmotor, using 12 vdc am-3108 motor and encoder

U(V)	I(A)	P1(W)	T(N.m)	n(r/min)	P2(W)	EFF(%)	P.F
11.89	0.978	11.63	0.33	29.2	1.019	8.765	1.000
11.89	1.497	17.81	1.49	28.4	4.437	24.91	1.000
11.89	2.017	23.99	2.64	27.7	7.677	32.00	1.000
11.89	2.536	30.17	3.80	26.9	10.74	35.60	1.000
11.89	3.055	36.35	4.95	26.2	13.63	37.48	1.000
11.89	3.575	42.53	6.11	25.5	16.33	38.41	1.000
11.89	4.094	48.71	7.26	24.7	18.86	38.73	1.000
11.89	4.614	54.89	8.42	24.0	21.22	38.65	1.000
11.89	5.133	61.06	9.57	23.3	23.39	38.31	1.000
11.89	5.652	67.24	10.73	22.5	25.39	37.76	1.000
11.90	6.172	73.42	11.89	21.8	27.21	37.06	1.000
11.90	6.691	79.60	13.04	21.1	28.85	36.25	0.999
11.90	7.210	85.78	14.20	20.3	30.32	35.34	0.999
11.90	7.730	91.96	15.35	19.6	31.61	34.37	0.999
11.90	8.249	98.14	16.51	18.9	32.72	33.34	0.999
11.90	8.769	104.3	17.66	18.1	33.65	32.26	0.999
11.90	9.288	110.5	18.82	17.4	34.40	31.14	0.999
11.90	9.807	116.7	19.97	16.7	34.98	29.98	0.999
11.90	10.33	122.9	21.13	15.9	35.38	28.80	0.999
11.90	10.85	129.0	22.28	15.2	35.60	27.59	0.999
11.90	11.37	135.2	23.44	14.5	35.65	26.37	0.999
11.90	11.89	141.4	24.59	13.7	35.52	25.12	0.999
11.90	12.40	147.6	25.75	13.0	35.21	23.86	0.999
11.90	12.92	153.7	26.90	12.3	34.72	22.58	0.999
11.90	13.44	159.9	28.06	11.5	34.06	21.30	0.999
11.90	13.96	166.1	29.21	10.8	33.21	20.00	0.999
11.91	14.48	172.3	30.37	10.1	32.19	18.69	0.999
11.91	15.00	178.5	31.52	9.3	31.00	17.37	0.999
11.91	15.52	184.6	32.68	8.6	29.62	16.04	0.999
11.91	16.04	190.8	33.83	7.9	28.07	14.71	0.999
11.91	16.56	197.0	34.99	7.1	26.34	13.37	0.999
11.91	17.08	203.2	36.14	6.4	24.43	12.03	0.998
11.91	17.60	209.4	37.30	5.7	22.35	10.68	0.998
11.91	18.12	215.5	38.45	4.9	20.09	9.320	0.998
11.91	18.64	221.7	39.61	4.2	17.65	7.960	0.998
11.91	19.16	227.9	40.76	3.5	15.03	6.596	0.998
11.91	19.68	234.1	41.92	2.7	12.24	5.228	0.998
11.91	20.20	240.2	43.07	2.0	9.265	3.856	0.998
11.91	20.71	246.4	44.23	1.3	6.116	2.481	0.998
11.91	21.23	252.6	45.38	0.5	2.789	1.104	0.998
11.91	21.65	257.5	46.31	0.0	0.000	0.000	0.998

	U(V)	I(A)	P1(W)	T(N.m)	n(r/min)	P2(W)	EFF(%)	P.F
No Load Point	11.89	0.978	11.63	0.33	29.2	1.019	8.765	1.000
Stall Point	11.91	21.65	257.5	46.31	0	0	0.000	0.998
Max Torque	11.91	21.65	257.5	46.31	0.0	0.000	0.000	0.998
Max Output Power	11.90	11.26	134.0	23.21	14.6	35.66	26.61	0.999
Max Efficiency	11.89	4.198	49.94	7.50	24.6	19.35	38.74	1.000
Rated Point	11.89	5.325	63.34	10.00	23.0	24.10	38.05	1.000