

AM-4270 Technical Information

PG977 Gear motor with 977:1 ratio gearbox, 12 volt DC motor and encoder

Date: 4/27/2020



U(V)	I(A)	P1(W)	T(N.m)	n(r/min)	P2(W)	EFF(%)	P.F
12.21	0.576	7.041	0.00	6.4	0.000	0.000	0.999
12.21	0.982	12.00	2.93	6.2	1.913	15.95	0.999
12.21	1.388	16.95	6.97	6.0	4.435	26.16	1.000
12.21	1.794	21.91	11.01	5.9	6.821	31.13	1.000
12.21	2.200	26.87	15.05	5.7	9.071	33.76	1.000
12.21	2.606	31.83	19.09	5.5	11.18	35.15	1.000
12.21	3.012	36.78	23.13	5.4	13.16	35.79	1.000
12.21	3.418	41.74	27.17	5.2	15.00	35.95	1.000
12.21	3.824	46.70	31.21	5.1	16.71	35.78	1.000
12.21	4.230	51.65	35.25	4.9	18.28	35.39	1.000
12.21	4.636	56.61	39.29	4.7	19.71	34.82	1.000
12.21	5.042	61.57	43.33	4.6	21.01	34.13	1.000
12.21	5.448	66.52	47.37	4.4	22.17	33.33	1.000
12.21	5.854	71.48	51.41	4.3	23.20	32.45	1.000
12.20	6.260	76.44	55.45	4.1	24.09	31.51	1.000
12.20	6.666	81.39	59.48	3.9	24.84	30.52	1.000
12.20	7.072	86.35	63.52	3.8	25.46	29.48	1.000
12.20	7.478	91.31	67.56	3.6	25.94	28.41	1.000
12.20	7.883	96.26	71.60	3.5	26.28	27.30	1.000
12.20	8.289	101.2	75.64	3.3	26.49	26.17	1.000
12.20	8.695	106.2	79.68	3.1	26.57	25.02	1.000
12.20	9.101	111.1	83.72	3.0	26.50	23.85	1.000
12.20	9.507	116.1	87.76	2.8	26.30	22.66	1.000
12.20	9.913	121.0	91.80	2.7	25.97	21.45	1.000
12.20	10.32	126.0	95.84	2.5	25.50	20.24	1.000
12.20	10.73	131.0	99.88	2.3	24.89	19.01	1.000
12.20	11.13	135.9	103.92	2.2	24.15	17.77	1.000
12.20	11.54	140.9	107.96	2.0	23.27	16.52	1.000
12.20	11.94	145.8	112.00	1.8	22.25	15.26	1.000
12.20	12.35	150.8	116.04	1.7	21.10	13.99	1.000
12.20	12.76	155.7	120.08	1.5	19.81	12.72	1.000
12.20	13.16	160.7	124.12	1.4	18.39	11.44	1.000
12.20	13.57	165.7	128.16	1.2	16.83	10.16	1.000
12.20	13.97	170.6	132.20	1.0	15.14	8.871	1.000
12.20	14.38	175.6	136.24	0.9	13.31	7.578	1.000
12.19	14.79	180.5	140.28	0.7	11.34	6.280	1.000
12.19	15.19	185.5	144.32	0.6	9.234	4.978	1.000
12.19	15.60	190.4	148.36	0.4	6.994	3.672	1.000
12.19	16.00	195.4	152.40	0.2	4.619	2.363	1.000
12.19	16.41	200.4	156.44	0.1	2.107	1.051	1.000
12.19	16.73	204.3	159.67	0.0	0.000	0.000	1.000

	U(V)	I(A)	P1(W)	T(N.m)	n(r/min)	P2(W)	EFF(%)	P.F
No Load Point	12.21	0.576	7.041	0.00	6.4	0.000	0.000	0.999
Stall Point	12.19	16.73	204.3	159.7	0	0	0.000	1.000
Max Torque	12.19	16.73	204.3	159.67	0.0	0.000	0.000	1.000
Max Output Power	12.20	8.695	106.2	79.68	3.1	26.57	25.02	1.000
Max Efficiency	12.21	3.418	41.74	27.17	5.2	15.00	35.95	1.000
Rated Point	12.21	2.193	26.78	15.00	5.7	8.982	33.54	1.000