

Testing Report of Motor

Manufacturer: BAFANG

Model: 44V BPM 16T

Serial: S1603020002

Date: 3/2/2016 Operator:

Caption	Torque (N.m)	RPM	Output power (W)	Voltage (V)	Current (I)	Input power (W)	Efficiency (%)
Max torque	101.6	57.9	616.05	36.37	24.39	887.06	69.4
Max RPM	0.3	123.2	3.87	36.37	1.75	63.65	6.1
Max output power	64.2	101.6	683.08	36.37	23.59	857.97	79.6
Max voltage	80.2	78.1	655.95	36.39	24.19	880.27	74.5
Max current	90.6	67.9	644.23	36.37	24.51	891.43	72.3
Max input power	90.6	67.9	644.23	36.37	24.51	891.43	72.3
Max efficiency	46.1	110.1	531.53	36.37	18.27	664.48	80.0
1	0.3	123.2	3.87	36.37	1.75	63.65	6.1
2	0.3	123.2	3.87	36.35	1.82	66.16	5.9
3	0.1	123.1	1.29	36.37	1.88	68.38	1.9
4	0.1	122.8	1.29	36.37	1.99	72.38	1.8
5	0.2	122.9	2.57	36.37	2.06	74.92	3.4
6	0.4	122.9	5.15	36.37	2.18	79.29	6.5
7	0.8	123.1	10.31	36.37	2.27	82.56	12.5
8	1.4	122.9	18.02	36.37	2.46	89.47	20.1
9	1.9	122.7	24.41	36.37	2.70	98.20	24.9
10	2.6	122.7	33.41	36.37	2.86	104.02	32.1
11	3.2	122.8	41.15	36.35	3.15	114.50	35.9
12	3.9	122.4	49.99	36.37	3.40	123.66	40.4
13	4.7	122.4	60.25	36.37	3.76	136.75	44.1
14	5.4	122.2	69.10	36.37	4.01	145.84	47.4
15	6.3	121.8	80.36	36.37	4.43	161.12	49.9
16	7.3	122.3	93.50	36.37	4.74	172.39	54.2
17	8.3	122.0	106.04	36.37	5.13	186.58	56.8
18	9.3	121.9	118.72	36.37	5.50	200.04	59.4
19	10.5	121.5	133.60	36.37	5.89	214.22	62.4
20	11.6	121.7	147.84	36.37	6.32	229.86	64.3
21	12.7	121.0	160.93	36.37	6.70	243.68	66.0
22	14.0	121.0	177.40	36.37	7.28	264.77	67.0
23	15.4	120.9	194.98	36.37	7.85	285.50	68.3
24	16.5	120.9	208.91	36.37	8.23	299.33	69.8
25	18.0	120.8	227.71	36.37	8.72	317.15	71.8
26	19.3	120.6	243.75	36.37	9.36	340.42	71.6
27	20.9	120.6	263.96	36.37	9.87	358.97	73.5
28	22.4	120.5	282.67	36.37	10.41	378.61	74.7
29	23.7	120.2	298.33	36.37	10.95	398.25	74.9
30	25.4	119.9	318.93	36.37	11.42	415.35	76.8
31	26.9	119.7	337.20	36.37	12.05	438.26	76.9
32	28.8	119.6	360.72	36.37	12.70	461.90	78.1
33	30.3	119.7	379.82	36.37	13.40	487.36	77.9
34	31.9	117.4	392.19	36.35	13.83	502.72	78.0
35	33.7	116.3	410.44	36.35	14.36	521.99	78.6
36	35.2	115.3	425.02	36.37	15.05	547.37	77.6
37	37.0	114.1	442.11	36.37	15.38	559.37	79.0
38	38.8	114.2	464.02	36.37	16.10	585.56	79.2
39	40.7	114.0	485.89	36.37	16.80	611.02	79.5
40	42.3	112.1	496.58	36.37	17.23	626.66	79.2
41	44.5	111.2	518.21	36.37	17.96	653.21	79.3
42	46.1	110.1	531.53	36.37	18.27	664.48	80.0

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Caption	T(N. m)	N(r/min)	Pout(W)	U(V)	I(A)	Pin(W)	η (%)
43	48.1	109.0	549.05	36.37	18.93	688.48	79.7
44	49.8	109.1	568.98	36.37	19.71	716.85	79.4
45	52.0	107.4	584.86	36.37	20.18	733.95	79.7
46	54.0	106.7	603.39	36.37	20.93	761.22	79.3
47	55.9	105.2	615.84	36.37	21.32	775.41	79.4
48	58.2	104.6	637.52	36.37	22.01	800.50	79.6
49	60.0	104.4	655.98	36.37	22.79	828.87	79.1
50	62.1	103.4	672.44	36.37	23.35	849.24	79.2
51	64.2	101.6	683.08	36.37	23.59	857.97	79.6
52	66.0	98.5	680.80	36.37	23.72	862.70	78.9
53	68.0	95.3	678.65	36.37	23.83	866.70	78.3
54	70.3	91.5	673.63	36.37	23.57	857.24	78.6
55	72.3	89.9	680.68	36.37	23.94	870.70	78.2
56	74.3	87.2	678.50	36.37	24.14	877.97	77.3
57	76.2	83.6	667.12	36.37	24.15	878.34	76.0
58	78.2	80.9	662.52	36.37	24.08	875.79	75.6
59	80.2	78.1	655.95	36.39	24.19	880.27	74.5
60	82.3	75.5	650.71	36.39	24.14	878.45	74.1
61	84.2	73.9	651.63	36.37	24.14	877.97	74.2
62	86.4	71.5	646.94	36.37	23.94	870.70	74.3
63	88.4	69.4	642.47	36.37	24.30	883.79	72.7
64	90.6	67.9	644.23	36.37	24.51	891.43	72.3
65	92.5	66.0	639.33	36.39	24.23	881.73	72.5
66	94.4	63.9	631.71	36.37	24.34	885.25	71.4
67	96.3	62.0	625.26	36.37	24.30	883.79	70.7
68	97.8	60.3	617.59	36.37	24.42	888.16	69.5
69	99.6	58.9	614.35	36.37	24.37	886.34	69.3
70	101.6	57.9	616.05	36.37	24.39	887.06	69.4