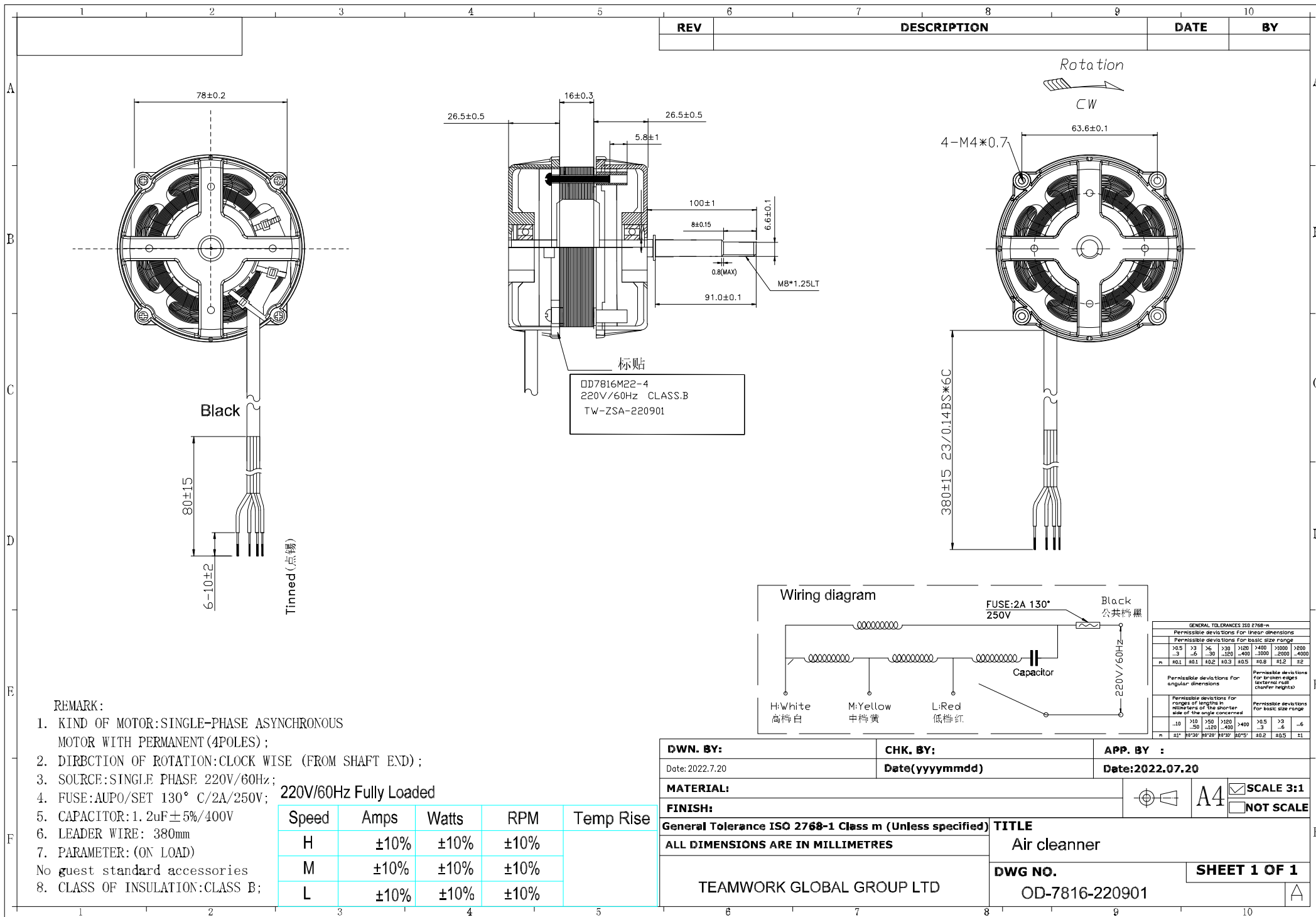




天沃环球集团有限公司 (TEAMWORK GLOBAL GROUP LTD)

电机检测-Motor test (7816)

客户	ZSA	产品型号	7816	电 压	220V/60Hz																				
产品图纸	REMARK: - KIND OF MOTOR: SINGLE-PHASE ASYNCHRONOUS MOTOR WITH PERMANENT (4POLES); - DIRECTION OF ROTATION: CLOCK WISE (FROM SHAFT END); - SOURCE: SINGLE PHASE 220V/60Hz; - FUSE: AUPO/SET 130° C/2A/250V; 220V/60Hz Fully Loaded - CAPACITOR: 1.2uF ±5%/400V - LEADER WIRE: 380mm - PARAMETER: (ON LOAD) - No guest standard accessories - CLASS OF INSULATION: CLASS B; <table border="1"><thead><tr><th>Speed</th><th>Amps</th><th>Watts</th><th>RPM</th><th>Temp Rise</th></tr></thead><tbody><tr><td>H</td><td>±10%</td><td>±10%</td><td>±10%</td><td></td></tr><tr><td>M</td><td>±10%</td><td>±10%</td><td>±10%</td><td></td></tr><tr><td>L</td><td>±10%</td><td>±10%</td><td>±10%</td><td></td></tr></tbody></table> DWN. BY: Date: 2022.7.20 CHK. BY: Date: (yyyymmdd) APP. BY: Date: 2022.07.20 MATERIAL: FINISH: General Tolerance ISO 2768-1 Class m (Unless specified) ALL DIMENSIONS ARE IN MILLIMETRES SHEN ZHEN ODN IMPORT AND EXPORT CO., LTD (Home Rite Co., Ltd.) DWG NO. 空清 SHEET 1 OF 1					Speed	Amps	Watts	RPM	Temp Rise	H	±10%	±10%	±10%		M	±10%	±10%	±10%		L	±10%	±10%	±10%	
Speed	Amps	Watts	RPM	Temp Rise																					
H	±10%	±10%	±10%																						
M	±10%	±10%	±10%																						
L	±10%	±10%	±10%																						

编号	检查项目	规格尺寸	实际检测记录										测试仪器
			1	2	3	4							
一. 外形尺寸及重点部件检查													
1.1	测量所有的尺寸根据图纸		OK	OK	OK	OK							游标卡尺
1.2	外观表面不能有刮伤、锈蚀痕迹与严重的毛刺和灰尘，引线不能损伤。		OK	OK	OK	OK							目视
1.3	规格贴纸印字要清晰，正确，不可有漏贴贴纸等问题		OK	OK	OK	OK							目视
1.4	轴芯上要刷防锈油		OK	OK	OK	OK							目视
1.5	股线23/0.14BS*6C黑皮（黑、红、白、绿、黄、灰）		OK	OK	OK	OK							目视/卡尺
1.6	股线拉力最小要达到3.0KG以上		OK	OK	OK	OK							拉力计
1.7	温度保险丝 2A 250V 130℃ (AUPO&SET)		OK	OK	OK	OK							目视/温度测试仪
1.8	698ZZ轴承与轴芯为紧配合		OK	OK	OK	OK							拉力计
1.9	定子规格78*46*16mm	鈹钢片	OK	OK	OK	OK							游标卡尺
1.1	漆包线类型	（铜线）	OK	OK	OK	OK							
1.11	铝壳材质	ADC-12	OK	OK	OK	OK							
二. 电机性能和安规检查（负载无配件没有测试）													
2.1	出轴旋转方向	CW(出轴端)	OK	OK	OK	OK							目视
2.2	空载电流H档	±12%	0.42	0.42	0.42	0.42							测试仪器
	空载电流M档	±12%	0.3	0.29	0.29	0.3							测试仪器
	空载电流L档	±12%	0.27	0.26	0.26	0.27							测试仪器
2.3	空载功率H档	±12%	59.5	58.8	58.8	59.2							测试仪器
	空载功率M档	±12%	48.3	47.7	48	48.3							测试仪器
	空载功率L档	±12%	45	44.4	44.7	45							测试仪器

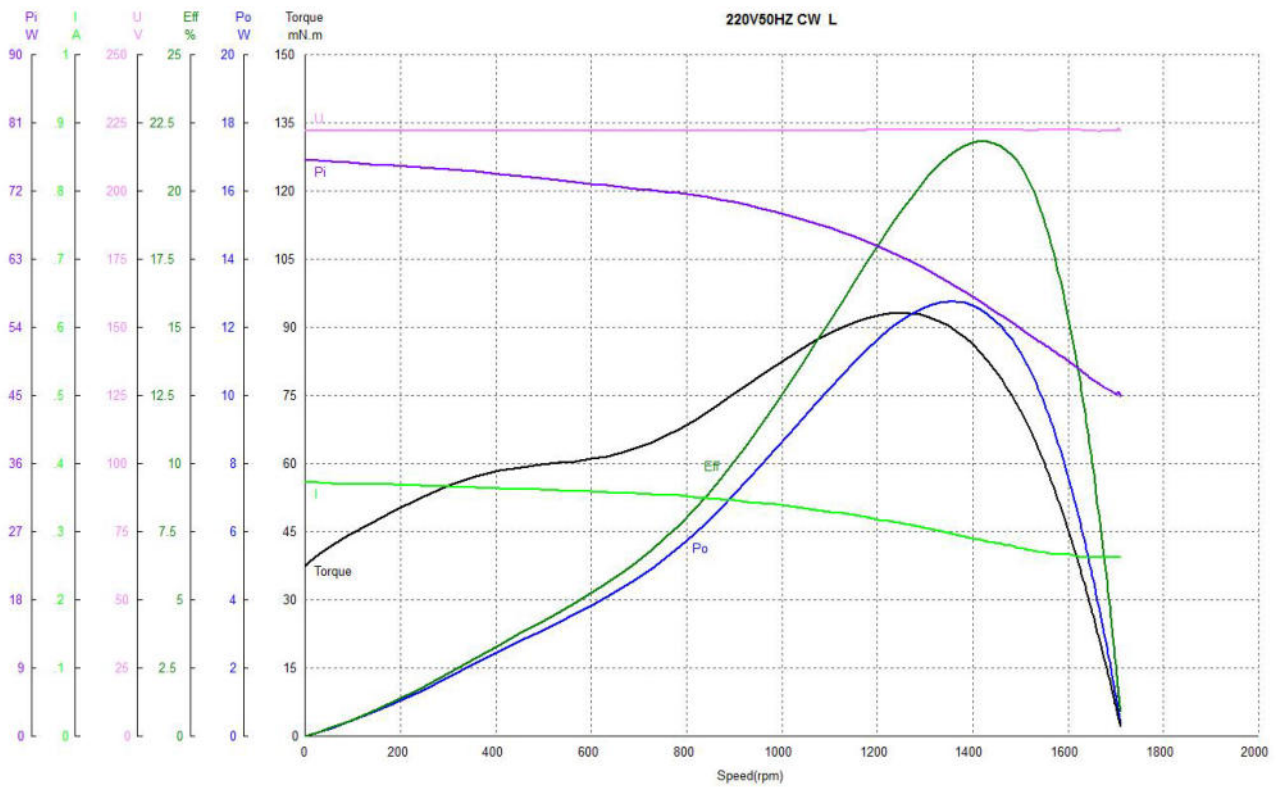
2.4	负载电流H档	±10 %										测试仪器
	负载电流M档	±10 %										测试仪器
	负载电流L档	±10 %										测试仪器
2.5	负载功率H档	±10 %										测试仪器
	负载功率M档	±10 %										测试仪器
	负载功率L档	±10 %										测试仪器
2.6	负载转速H档	±10 %										转速仪
	负载转速M档	±10 %										转速仪
	负载转速L档	±10 %										转速仪
2.7	马达噪音	65dB以下负载带风叶距离1M无异音	OK	OK	OK	OK						噪音计
2.8	低压启动	额定电压的60%V以下	OK	OK	OK	OK						测试仪器
2.9	绝缘电阻	≥100M Ω（DC500V）	OK	OK	OK	OK						测试仪器
2.10	电气间隙和爬电距离	电机的零线和火线之间距离应大于 3.2mm。漆包线到金属外壳之间的爬电距离和电气间隙应大于 1.5mm。										测试仪器
2.11	超压运行	1.24倍额定电压运行到稳态，电机能够正常运行且无发烫、冒烟和烧焦味等现象										测试仪器
2.12	堵转测试	额定电压下堵转电机，运行到稳态堵转测试时保险丝能正常断开										测试仪器/热电偶
2.13	温升测试	220V的1.06倍电压测试，室温马达运转测试2小时后，电阻法测试温升≤80K										温升测试仪/三用表
2.14	寿命测试	額定電壓 (220V) 連續運轉 小時以上, 無異常現象（待定）										测试仪器
2.15	成品耐压测试	1500V/1mA/1sec	OK	OK	OK	OK						耐压测试仪
2.16	马达运转时不可有异音，轴承与轴心配合运转要顺畅		OK	OK	OK	OK						治具检测
2.17	前后支架固定螺丝顺扭力量要达到 12KG以上		OK	OK	OK	OK						扭力计
备注：负载测试电流、功率、转速，风速马达须运转 1 分钟后开始测试（标准配件）（此次样品无负载配件，故没有测试）												

OD7816 ZSA motor

L

Customer: HJ Voltage: 220V/60Hz
 FileName: 测功记录 Tester: Mu
 Motor Type: 7816 ZSA motor Test Date: 2022.9.3
 Number: 1
 Direction of Rotation: CW

Performance Curve



Performance Data Summary

	U	I	Pi	Torque	Speed	Po	Pi-Po	Eff	P.F	Freq
	V	A	W	mN.m	rpm	W	W	%		Hz
No Load Point	222.02	0.262	44.896	2.246	1709.86	0.402	44.494	0.90	0.772	59.99
Max Efficient Point	222.30	0.288	57.355	84.426	1415.93	12.518	44.837	21.83	0.896	60.00
Max Pout Point	222.29	0.296	59.332	89.154	1365.62	12.750	46.582	21.49	0.902	60.00
Max Torque Point	222.26	0.313	63.397	93.113	1247.10	12.160	51.237	19.18	0.911	60.00
Block Point/End Point	222.03	0.372	76.038	37.297	0.00	0.000	76.038	0.00	0.921	60.00

Performance Data

	U	I	Pi	Torque	Speed	Po	Pi-Po	Eff	P.F	Freq	Time
	V	A	W	mN.m	rpm	W	W	%		Hz	s
1	222.02	0.262	44.896	2.246	1709.86	0.402	44.494	0.90	0.772	59.99	0.06
2	222.08	0.262	44.942	2.306	1709.81	0.413	44.529	0.92	0.772	60.01	0.11
3	222.15	0.262	44.995	2.306	1710.06	0.413	44.582	0.92	0.773	59.99	0.14
4	222.22	0.262	45.039	2.300	1710.21	0.412	44.627	0.92	0.774	60.00	0.19
5	222.28	0.262	45.072	2.262	1710.00	0.405	44.667	0.90	0.774	60.01	0.22
6	222.32	0.262	45.094	2.264	1709.72	0.405	44.689	0.90	0.774	60.00	0.27
7	222.33	0.262	45.097	2.261	1709.62	0.405	44.692	0.90	0.774	60.01	0.30
8	222.33	0.262	45.096	2.272	1709.92	0.407	44.689	0.90	0.774	60.00	0.34
9	222.32	0.262	45.088	2.303	1710.13	0.412	44.676	0.91	0.774	60.01	0.38
10	222.31	0.262	45.065	2.257	1709.97	0.404	44.661	0.90	0.774	60.01	0.42
11	222.29	0.262	45.039	2.253	1709.76	0.403	44.636	0.90	0.773	59.99	0.47
12	222.26	0.262	45.006	2.308	1709.81	0.413	44.593	0.92	0.773	60.02	0.50
13	222.23	0.262	44.981	2.337	1710.08	0.419	44.562	0.93	0.773	60.00	0.55
14	222.19	0.262	44.959	2.351	1710.10	0.421	44.538	0.94	0.772	60.01	0.58
15	222.16	0.262	44.939	2.358	1709.90	0.422	44.517	0.94	0.772	60.01	0.63
16	222.13	0.262	44.923	2.371	1709.76	0.425	44.498	0.95	0.772	59.99	0.66
17	222.09	0.262	44.897	2.383	1709.81	0.427	44.470	0.95	0.772	60.01	0.70
18	222.05	0.262	44.874	2.423	1710.01	0.434	44.440	0.97	0.771	59.99	0.75
19	222.00	0.262	44.849	2.440	1710.13	0.437	44.412	0.97	0.771	60.01	0.78
20	221.95	0.262	44.828	2.397	1709.94	0.429	44.399	0.96	0.771	60.01	0.83
21	221.91	0.262	44.815	2.444	1709.78	0.438	44.377	0.98	0.771	60.00	0.86
22	221.89	0.262	44.806	2.461	1709.64	0.441	44.365	0.98	0.771	60.02	0.91
23	221.87	0.262	44.801	2.504	1709.82	0.448	44.353	1.00	0.771	60.00	0.94
24	221.88	0.262	44.799	2.545	1709.94	0.456	44.343	1.02	0.771	60.01	0.98
25	221.90	0.262	44.806	2.559	1709.80	0.458	44.348	1.02	0.771	60.00	1.03
26	221.93	0.262	44.834	2.551	1709.54	0.457	44.377	1.02	0.771	59.99	1.06
27	222.00	0.262	44.872	2.615	1709.34	0.468	44.404	1.04	0.771	60.00	1.11
28	222.07	0.262	44.921	2.703	1709.43	0.484	44.437	1.08	0.772	59.99	1.14
29	222.15	0.262	44.973	2.729	1709.46	0.489	44.484	1.09	0.773	60.00	1.19
30	222.23	0.262	45.023	2.750	1709.22	0.492	44.531	1.09	0.773	60.00	1.22
31	222.30	0.262	45.080	2.766	1708.86	0.495	44.585	1.10	0.774	60.00	1.27
32	222.37	0.262	45.135	2.793	1708.70	0.500	44.635	1.11	0.775	60.01	1.30
33	222.44	0.262	45.186	2.837	1708.86	0.508	44.678	1.12	0.775	60.00	1.34
34	222.49	0.263	45.227	2.909	1708.85	0.521	44.706	1.15	0.773	60.01	1.39
35	222.53	0.263	45.261	2.933	1708.51	0.525	44.736	1.16	0.773	60.01	1.42
36	222.57	0.263	45.296	2.972	1708.09	0.532	44.764	1.17	0.774	60.00	1.47
37	222.59	0.263	45.328	3.054	1708.00	0.546	44.782	1.21	0.774	60.02	1.50
38	222.62	0.263	45.356	3.127	1708.12	0.559	44.797	1.23	0.775	59.99	1.55
39	222.64	0.264	45.379	3.181	1708.14	0.569	44.810	1.25	0.772	60.01	1.58
40	222.66	0.263	45.392	3.250	1707.84	0.581	44.811	1.28	0.775	60.01	1.63
41	222.68	0.263	45.406	3.351	1707.58	0.599	44.807	1.32	0.775	60.00	1.67
42	222.69	0.263	45.410	3.415	1707.36	0.611	44.799	1.35	0.775	60.02	1.70

43	222.70	0.263	45.415	3.527	1707.36	0.631	44.784	1.39	0.775	60.00	1.75
44	222.70	0.263	45.420	3.620	1707.29	0.647	44.773	1.42	0.775	60.01	1.78
45	222.71	0.263	45.423	3.695	1706.98	0.660	44.763	1.45	0.775	60.00	1.82
46	222.71	0.263	45.428	3.798	1706.62	0.679	44.749	1.50	0.776	59.99	1.86
47	222.70	0.263	45.428	3.939	1706.34	0.704	44.724	1.55	0.776	60.01	1.90
48	222.68	0.263	45.434	4.081	1706.39	0.729	44.705	1.61	0.776	59.99	1.95
49	222.67	0.263	45.438	4.156	1706.09	0.743	44.695	1.64	0.776	60.00	1.98
50	222.65	0.263	45.440	4.266	1705.74	0.762	44.678	1.68	0.776	60.00	2.03
51	222.62	0.263	45.438	4.345	1705.22	0.776	44.662	1.71	0.776	60.00	2.06
52	222.60	0.263	45.429	4.497	1705.06	0.803	44.626	1.77	0.776	60.01	2.11
53	222.57	0.262	45.416	4.624	1704.99	0.826	44.590	1.82	0.779	60.00	2.14
54	222.53	0.262	45.394	4.753	1704.82	0.849	44.545	1.87	0.779	60.01	2.18
55	222.48	0.262	45.365	4.858	1704.42	0.867	44.498	1.91	0.778	60.01	2.22
56	222.41	0.262	45.329	4.961	1703.86	0.885	44.444	1.95	0.778	59.99	2.26
57	222.33	0.262	45.289	5.136	1703.56	0.916	44.373	2.02	0.777	60.01	2.31
58	222.25	0.262	45.254	5.322	1703.34	0.949	44.305	2.10	0.777	60.00	2.34
59	222.18	0.262	45.220	5.518	1703.23	0.984	44.236	2.18	0.777	60.00	2.39
60	222.10	0.262	45.186	5.645	1702.64	1.007	44.179	2.23	0.777	60.00	2.42
61	222.03	0.262	45.163	5.830	1701.98	1.039	44.124	2.30	0.776	59.99	2.47
62	221.97	0.262	45.146	6.054	1701.52	1.079	44.067	2.39	0.776	60.00	2.50
63	221.94	0.262	45.140	6.283	1701.33	1.119	44.021	2.48	0.776	60.00	2.54
64	221.92	0.262	45.141	6.489	1700.95	1.156	43.985	2.56	0.776	60.01	2.59
65	221.90	0.262	45.147	6.705	1700.08	1.194	43.953	2.65	0.777	60.00	2.62
66	221.88	0.262	45.164	6.951	1699.26	1.237	43.927	2.74	0.777	60.00	2.67
67	221.88	0.262	45.190	7.237	1698.79	1.287	43.903	2.85	0.777	60.01	2.70
68	221.88	0.262	45.220	7.535	1698.38	1.340	43.880	2.96	0.778	60.00	2.75
69	221.89	0.262	45.249	7.851	1697.73	1.396	43.853	3.09	0.778	60.01	2.78
70	221.89	0.262	45.280	8.165	1696.91	1.451	43.829	3.21	0.779	60.00	2.82
71	221.90	0.262	45.326	8.509	1696.05	1.511	43.815	3.33	0.780	59.99	2.86
72	221.93	0.262	45.380	8.903	1695.10	1.580	43.800	3.48	0.780	60.02	2.90
73	221.96	0.262	45.437	9.322	1694.33	1.654	43.783	3.64	0.781	60.00	2.95
74	221.97	0.262	45.480	9.774	1693.66	1.734	43.746	3.81	0.782	60.02	2.98
75	221.97	0.262	45.513	10.236	1692.46	1.814	43.699	3.99	0.783	60.01	3.03
76	221.97	0.262	45.552	10.729	1690.95	1.900	43.652	4.17	0.783	59.99	3.06
77	221.96	0.262	45.590	11.244	1689.70	1.990	43.600	4.37	0.784	60.01	3.11
78	221.95	0.262	45.633	11.850	1688.83	2.096	43.537	4.59	0.785	59.99	3.14
79	221.93	0.262	45.675	12.427	1687.34	2.196	43.479	4.81	0.786	60.00	3.18
80	221.92	0.262	45.720	13.030	1685.61	2.300	43.420	5.03	0.786	60.00	3.23
81	221.90	0.262	45.775	13.693	1684.09	2.415	43.360	5.28	0.787	59.99	3.26
82	221.90	0.262	45.828	14.343	1682.37	2.527	43.301	5.51	0.788	60.01	3.31
83	221.88	0.262	45.887	15.049	1680.71	2.649	43.238	5.77	0.789	59.99	3.34
84	221.85	0.262	45.941	15.768	1679.21	2.773	43.168	6.04	0.790	60.01	3.39
85	221.84	0.262	46.005	16.527	1677.20	2.903	43.102	6.31	0.792	60.00	3.42
86	221.84	0.262	46.093	17.267	1674.86	3.028	43.065	6.57	0.793	60.00	3.47
87	221.85	0.262	46.175	18.125	1673.06	3.176	42.999	6.88	0.794	60.01	3.50

88	221.84	0.262	46.252	19.021	1671.24	3.329	42.923	7.20	0.796	59.99	3.54
89	221.82	0.262	46.330	19.930	1669.02	3.483	42.847	7.52	0.797	60.01	3.59
90	221.81	0.262	46.411	20.865	1666.69	3.642	42.769	7.85	0.799	60.00	3.62
91	221.81	0.262	46.518	21.794	1664.04	3.798	42.720	8.17	0.800	59.99	3.67
92	221.85	0.262	46.636	22.846	1661.55	3.975	42.661	8.52	0.802	60.01	3.70
93	221.87	0.262	46.752	23.911	1659.21	4.155	42.597	8.89	0.804	59.99	3.75
94	221.89	0.262	46.865	25.008	1656.57	4.338	42.527	9.26	0.806	60.01	3.78
95	221.90	0.262	46.977	26.115	1653.57	4.522	42.455	9.63	0.808	60.00	3.82
96	221.92	0.262	47.106	27.220	1650.50	4.705	42.401	9.99	0.810	60.00	3.87
97	221.96	0.262	47.243	28.349	1647.76	4.892	42.351	10.36	0.812	60.01	3.90
98	222.00	0.262	47.393	29.499	1644.94	5.081	42.312	10.72	0.815	59.99	3.95
99	222.05	0.262	47.548	30.708	1642.03	5.280	42.268	11.11	0.817	60.01	3.98
100	222.09	0.262	47.703	31.918	1638.61	5.477	42.226	11.48	0.820	60.00	4.03
101	222.13	0.262	47.869	33.166	1635.02	5.679	42.190	11.86	0.823	59.99	4.06
102	222.16	0.262	48.027	34.441	1631.77	5.885	42.142	12.25	0.825	60.01	4.11
103	222.20	0.263	48.195	35.716	1628.41	6.091	42.104	12.64	0.825	59.99	4.15
104	222.24	0.263	48.373	37.022	1624.96	6.300	42.073	13.02	0.828	60.01	4.18
105	222.28	0.264	48.548	38.321	1620.96	6.505	42.043	13.40	0.827	60.00	4.23
106	222.32	0.264	48.740	39.708	1616.96	6.724	42.016	13.80	0.830	59.99	4.26
107	222.37	0.265	48.930	41.085	1613.02	6.940	41.990	14.18	0.830	60.00	4.31
108	222.41	0.265	49.126	42.451	1609.20	7.154	41.972	14.56	0.834	59.99	4.34
109	222.45	0.266	49.324	43.809	1605.27	7.364	41.960	14.93	0.834	60.01	4.38
110	222.46	0.266	49.511	45.143	1600.87	7.568	41.943	15.29	0.837	60.00	4.41
111	222.46	0.266	49.700	46.536	1596.31	7.779	41.921	15.65	0.840	60.00	4.46
112	222.45	0.267	49.880	47.955	1591.89	7.994	41.886	16.03	0.840	60.01	4.51
113	222.44	0.267	50.068	49.366	1587.69	8.208	41.860	16.39	0.843	59.99	4.54
114	222.41	0.267	50.263	50.731	1583.14	8.411	41.852	16.73	0.846	60.01	4.59
115	222.37	0.267	50.454	52.124	1578.34	8.615	41.839	17.08	0.850	60.00	4.62
116	222.33	0.267	50.659	53.538	1573.35	8.821	41.838	17.41	0.853	60.00	4.66
117	222.31	0.267	50.868	54.958	1568.51	9.027	41.841	17.75	0.857	60.01	4.70
118	222.29	0.268	51.090	56.392	1563.68	9.234	41.856	18.07	0.858	59.99	4.74
119	222.28	0.268	51.312	57.811	1558.75	9.437	41.875	18.39	0.861	60.01	4.79
120	222.25	0.269	51.527	59.192	1553.38	9.629	41.898	18.69	0.862	59.99	4.82
121	222.22	0.270	51.757	60.604	1547.82	9.823	41.934	18.98	0.863	59.99	4.87
122	222.20	0.270	51.981	62.011	1542.42	10.016	41.965	19.27	0.866	60.00	4.90
123	222.18	0.271	52.209	63.410	1537.09	10.207	42.002	19.55	0.867	59.99	4.95
124	222.17	0.271	52.447	64.783	1531.53	10.390	42.057	19.81	0.871	60.01	4.98
125	222.16	0.272	52.680	66.134	1525.64	10.566	42.114	20.06	0.872	59.99	5.02
126	222.15	0.273	52.935	67.491	1519.63	10.740	42.195	20.29	0.873	60.00	5.06
127	222.16	0.274	53.202	68.795	1513.60	10.904	42.298	20.50	0.874	60.01	5.15
128	222.18	0.275	53.499	70.191	1507.31	11.079	42.420	20.71	0.876	60.00	5.23
129	222.20	0.276	53.819	71.700	1499.91	11.262	42.557	20.93	0.878	60.00	5.31
130	222.23	0.277	54.190	73.336	1491.42	11.454	42.736	21.14	0.880	60.01	5.38
131	222.27	0.279	54.631	75.018	1481.80	11.641	42.990	21.31	0.881	60.00	5.46
132	222.29	0.280	55.091	76.798	1471.10	11.831	43.260	21.48	0.885	60.00	5.54

133	222.29	0.282	55.592	78.651	1459.25	12.019	43.573	21.62	0.887	60.00	5.62
134	222.28	0.284	56.128	80.555	1446.04	12.198	43.930	21.73	0.889	60.00	5.71
135	222.28	0.286	56.716	82.529	1431.56	12.372	44.344	21.81	0.892	60.00	5.79
136	222.30	0.288	57.355	84.426	1415.93	12.518	44.837	21.83	0.896	60.00	5.87
137	222.32	0.290	58.027	86.178	1399.90	12.633	45.394	21.77	0.900	60.00	5.95
138	222.33	0.293	58.696	87.761	1383.14	12.712	45.984	21.66	0.901	60.00	6.02
139	222.29	0.296	59.332	89.154	1365.62	12.750	46.582	21.49	0.902	60.00	6.10
140	222.27	0.298	59.983	90.337	1347.62	12.749	47.234	21.25	0.906	60.00	6.18
141	222.26	0.301	60.660	91.340	1328.92	12.711	47.949	20.96	0.907	60.00	6.26
142	222.27	0.304	61.357	92.140	1309.55	12.636	48.721	20.59	0.908	60.00	6.35
143	222.28	0.307	62.061	92.698	1289.50	12.518	49.543	20.17	0.909	60.00	6.43
144	222.28	0.310	62.740	93.030	1268.75	12.360	50.380	19.70	0.911	59.99	6.50
145	222.26	0.313	63.397	93.113	1247.10	12.160	51.237	19.18	0.911	60.00	6.58
146	222.25	0.316	64.049	92.994	1224.81	11.928	52.121	18.62	0.912	60.00	6.66
147	222.22	0.318	64.699	92.610	1201.40	11.651	53.048	18.01	0.916	60.00	6.74
148	222.19	0.321	65.341	91.995	1177.19	11.341	54.000	17.36	0.916	60.00	6.82
149	222.16	0.324	65.956	91.124	1151.98	10.993	54.963	16.67	0.916	59.99	6.90
150	222.10	0.327	66.535	90.002	1126.14	10.614	55.921	15.95	0.916	60.00	6.99
151	222.03	0.329	67.084	88.657	1099.29	10.206	56.878	15.21	0.918	60.01	7.07
152	221.96	0.332	67.634	87.099	1071.64	9.774	57.860	14.45	0.918	60.00	7.15
153	221.91	0.335	68.168	85.372	1043.57	9.330	58.838	13.69	0.917	60.00	7.22
154	221.88	0.337	68.675	83.461	1014.94	8.871	59.804	12.92	0.918	60.00	7.30
155	221.90	0.340	69.174	81.497	986.46	8.419	60.755	12.17	0.917	60.01	7.38
156	221.94	0.342	69.646	79.453	957.50	7.967	61.679	11.44	0.918	60.00	7.46
157	221.97	0.344	70.083	77.376	928.46	7.523	62.560	10.73	0.918	60.00	7.54
158	221.98	0.346	70.479	75.313	899.29	7.092	63.387	10.06	0.918	60.00	7.63
159	222.00	0.348	70.825	73.268	870.52	6.679	64.146	9.43	0.917	60.00	7.71
160	222.01	0.349	71.127	71.297	842.37	6.289	64.838	8.84	0.918	60.00	7.82
161	222.04	0.351	71.405	69.429	814.02	5.918	65.487	8.29	0.916	60.01	7.94
162	222.06	0.353	71.669	67.689	784.99	5.564	66.105	7.76	0.914	60.00	8.07
163	222.05	0.354	71.891	66.073	755.08	5.225	66.666	7.27	0.915	60.00	8.18
164	222.01	0.355	72.085	64.626	724.78	4.905	67.180	6.80	0.915	60.00	8.30
165	222.00	0.356	72.281	63.398	694.39	4.610	67.671	6.38	0.915	60.00	8.43
166	222.03	0.357	72.487	62.376	663.78	4.336	68.151	5.98	0.915	60.00	8.55
167	222.06	0.358	72.712	61.602	632.68	4.081	68.631	5.61	0.915	60.00	8.71
168	222.07	0.359	72.944	61.005	599.98	3.833	69.111	5.26	0.915	60.00	8.86
169	222.07	0.360	73.172	60.525	565.64	3.585	69.587	4.90	0.915	60.00	9.02
170	222.05	0.361	73.401	60.116	530.26	3.338	70.063	4.55	0.916	60.00	9.22
171	222.01	0.362	73.642	59.722	493.03	3.083	70.559	4.19	0.916	60.00	9.42
172	222.00	0.362	73.928	59.200	452.40	2.805	71.123	3.79	0.920	60.00	9.63
173	221.99	0.363	74.234	58.374	407.18	2.489	71.745	3.35	0.921	60.01	9.83
174	221.94	0.365	74.527	57.171	358.04	2.144	72.383	2.88	0.920	60.00	10.02
175	221.90	0.366	74.818	55.239	301.21	1.742	73.076	2.33	0.921	60.00	10.22
176	221.88	0.368	75.095	52.389	240.68	1.320	73.775	1.76	0.920	60.00	10.42
177	221.86	0.369	75.341	49.543	185.50	0.962	74.379	1.28	0.920	60.00	10.63

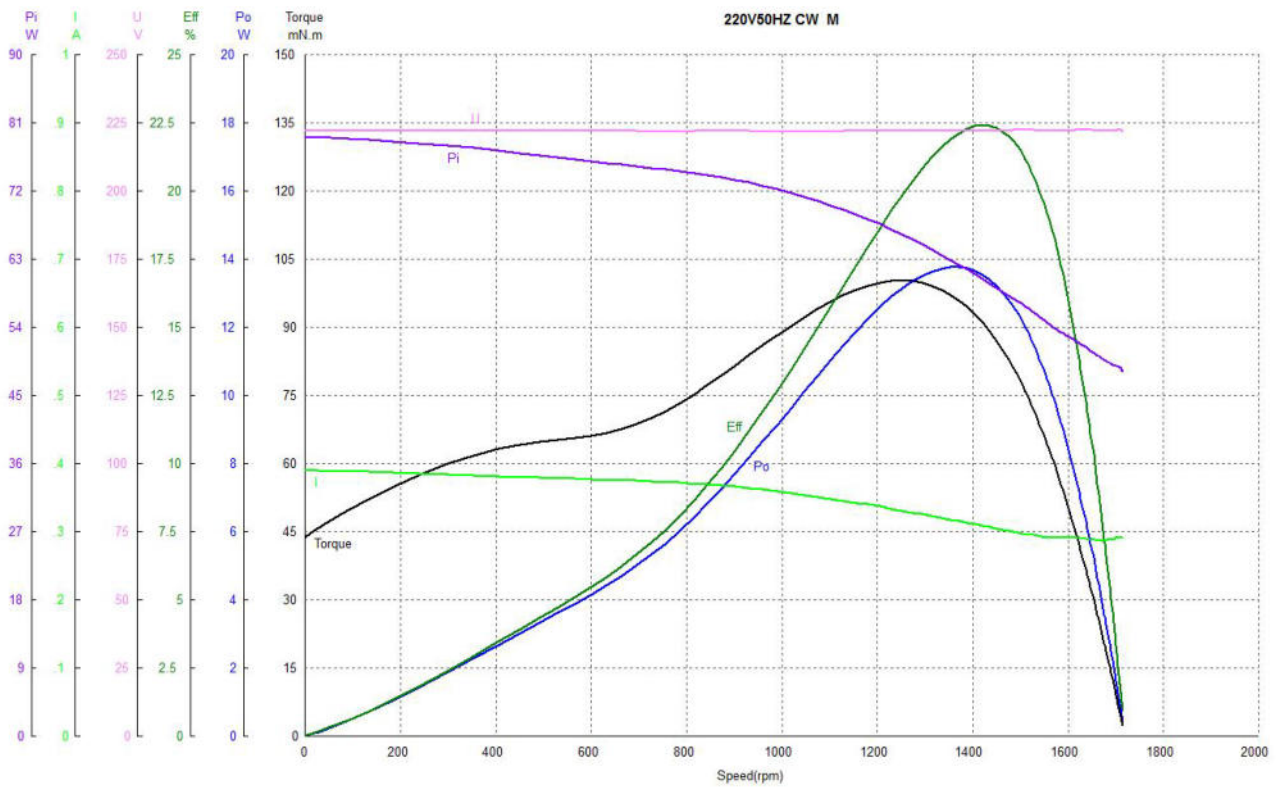
178	221.85	0.369	75.543	46.833	135.64	0.665	74.878	0.88	0.923	60.00	10.83
179	221.89	0.370	75.739	44.256	92.11	0.427	75.312	0.56	0.923	60.00	11.03
180	221.94	0.371	75.885	41.910	56.04	0.246	75.639	0.32	0.922	60.00	11.22
181	221.95	0.372	75.959	39.895	28.39	0.119	75.840	0.16	0.920	60.00	11.42
182	221.99	0.372	76.019	38.255	8.46	0.034	75.985	0.05	0.921	60.00	11.62
183	222.03	0.372	76.038	37.297	0.00	0.000	76.038	0.00	0.921	60.00	11.82

OD7816 ZSA motor

M

Customer: HJ Voltage: 220V/60Hz
 FileName: 测功记录 Tester: Mu
 Motor Type: 7816 ZSA motor Test Date: 2022.9.3
 Number: 1
 Direction of Rotation: CW

Performance Curve



Performance Data Summary

	U	I	Pi	Torque	Speed	Po	Pi-Po	Eff	P.F	Freq
	V	A	W	mN.m	rpm	W	W	%		Hz
No Load Point	222.04	0.292	48.336	2.653	1713.91	0.476	47.860	0.99	0.746	60.01
Max Efficient Point	222.02	0.309	60.376	91.001	1419.92	13.531	46.845	22.41	0.880	60.00
Max Pout Point	221.94	0.316	62.249	95.926	1369.90	13.761	48.488	22.11	0.888	60.00
Max Torque Point	221.95	0.331	66.267	100.259	1251.35	13.138	53.129	19.83	0.902	60.00
Block Point/End Point	221.86	0.390	79.025	43.638	0.00	0.000	79.025	0.00	0.913	60.00

Performance Data

	U	I	Pi	Torque	Speed	Po	Pi-Po	Eff	P.F	Freq	Time
	V	A	W	mN.m	rpm	W	W	%		Hz	s
1	222.04	0.292	48.336	2.653	1713.91	0.476	47.860	0.99	0.746	60.01	0.06
2	222.02	0.292	48.333	2.669	1714.05	0.479	47.854	0.99	0.746	60.00	0.11
3	222.01	0.292	48.322	2.666	1714.38	0.479	47.843	0.99	0.745	60.00	0.16
4	221.99	0.292	48.304	2.662	1714.54	0.478	47.826	0.99	0.745	60.01	0.19
5	221.96	0.292	48.281	2.659	1714.31	0.477	47.804	0.99	0.745	59.99	0.23
6	221.93	0.292	48.255	2.622	1714.10	0.471	47.784	0.98	0.745	60.01	0.27
7	221.91	0.292	48.234	2.609	1714.26	0.468	47.766	0.97	0.744	60.00	0.31
8	221.90	0.292	48.218	2.614	1714.62	0.469	47.749	0.97	0.744	60.00	0.34
9	221.90	0.292	48.203	2.567	1714.71	0.461	47.742	0.96	0.744	60.01	0.39
10	221.90	0.292	48.197	2.534	1714.43	0.455	47.742	0.94	0.744	59.99	0.44
11	221.90	0.292	48.201	2.531	1714.34	0.454	47.747	0.94	0.744	60.01	0.47
12	221.91	0.292	48.207	2.555	1714.60	0.459	47.748	0.95	0.744	59.99	0.52
13	221.93	0.292	48.224	2.552	1714.82	0.458	47.766	0.95	0.744	59.99	0.55
14	221.95	0.292	48.239	2.519	1714.65	0.452	47.787	0.94	0.744	60.00	0.59
15	221.97	0.292	48.258	2.517	1714.22	0.452	47.806	0.94	0.745	59.99	0.62
16	221.99	0.292	48.281	2.551	1714.19	0.458	47.823	0.95	0.745	60.01	0.67
17	222.01	0.292	48.298	2.616	1714.46	0.470	47.828	0.97	0.745	59.99	0.70
18	222.02	0.292	48.306	2.649	1714.64	0.476	47.830	0.99	0.745	59.99	0.75
19	222.01	0.292	48.295	2.653	1714.43	0.476	47.819	0.99	0.745	60.00	0.79
20	222.01	0.292	48.282	2.638	1714.12	0.474	47.808	0.98	0.745	60.00	0.82
21	221.99	0.292	48.263	2.692	1714.05	0.483	47.780	1.00	0.745	60.01	0.87
22	221.98	0.291	48.246	2.740	1714.13	0.492	47.754	1.02	0.747	60.00	0.90
23	221.95	0.291	48.220	2.783	1714.29	0.500	47.720	1.04	0.747	60.00	0.95
24	221.90	0.291	48.184	2.790	1714.20	0.501	47.683	1.04	0.746	60.01	0.98
25	221.85	0.291	48.144	2.800	1714.03	0.503	47.641	1.05	0.746	59.99	1.03
26	221.81	0.291	48.111	2.797	1713.94	0.502	47.609	1.04	0.745	60.02	1.07
27	221.77	0.291	48.091	2.874	1714.10	0.516	47.575	1.07	0.745	60.00	1.11
28	221.73	0.291	48.077	2.938	1714.09	0.527	47.550	1.10	0.745	60.00	1.15
29	221.71	0.291	48.069	2.978	1713.99	0.535	47.534	1.11	0.745	60.01	1.18
30	221.68	0.291	48.070	3.024	1713.91	0.543	47.527	1.13	0.745	59.99	1.23
31	221.68	0.291	48.084	3.051	1713.66	0.548	47.536	1.14	0.745	60.01	1.26
32	221.70	0.291	48.106	3.130	1713.70	0.562	47.544	1.17	0.746	60.00	1.31
33	221.73	0.292	48.141	3.177	1713.78	0.570	47.571	1.18	0.744	59.99	1.36
34	221.77	0.292	48.184	3.238	1713.75	0.581	47.603	1.21	0.744	60.01	1.39
35	221.83	0.292	48.230	3.226	1713.31	0.579	47.651	1.20	0.745	59.99	1.43
36	221.91	0.292	48.286	3.276	1712.94	0.588	47.698	1.22	0.745	60.01	1.47
37	221.98	0.292	48.340	3.332	1712.97	0.598	47.742	1.24	0.746	60.00	1.51
38	222.06	0.292	48.390	3.400	1713.11	0.610	47.780	1.26	0.746	59.99	1.54
39	222.12	0.292	48.436	3.448	1713.18	0.619	47.817	1.28	0.747	60.01	1.59
40	222.17	0.292	48.479	3.480	1712.70	0.624	47.855	1.29	0.747	59.99	1.62
41	222.23	0.292	48.523	3.551	1712.37	0.637	47.886	1.31	0.748	60.01	1.67
42	222.28	0.292	48.561	3.668	1712.32	0.658	47.903	1.36	0.748	60.00	1.72

43	222.31	0.292	48.591	3.769	1712.44	0.676	47.915	1.39	0.749	60.00	1.75
44	222.31	0.292	48.604	3.812	1712.30	0.684	47.920	1.41	0.749	60.01	1.79
45	222.32	0.292	48.618	3.887	1711.81	0.697	47.921	1.43	0.749	60.00	1.82
46	222.32	0.292	48.638	4.013	1711.51	0.719	47.919	1.48	0.749	60.02	1.87
47	222.34	0.292	48.656	4.163	1711.55	0.746	47.910	1.53	0.749	60.00	1.90
48	222.35	0.292	48.673	4.243	1711.54	0.760	47.913	1.56	0.750	60.00	1.95
49	222.34	0.292	48.671	4.312	1711.20	0.773	47.898	1.59	0.750	60.01	2.00
50	222.32	0.292	48.663	4.412	1710.77	0.790	47.873	1.62	0.750	59.99	2.03
51	222.31	0.292	48.660	4.542	1710.49	0.814	47.846	1.67	0.750	60.02	2.07
52	222.31	0.292	48.663	4.693	1710.56	0.841	47.822	1.73	0.750	60.00	2.11
53	222.32	0.292	48.670	4.799	1710.51	0.860	47.810	1.77	0.750	59.99	2.15
54	222.33	0.292	48.678	4.865	1710.22	0.871	47.807	1.79	0.750	60.01	2.18
55	222.35	0.292	48.685	4.948	1709.69	0.886	47.799	1.82	0.750	59.99	2.23
56	222.35	0.292	48.693	5.100	1709.30	0.913	47.780	1.88	0.750	60.01	2.26
57	222.36	0.292	48.698	5.255	1709.08	0.941	47.757	1.93	0.750	60.00	2.31
58	222.36	0.292	48.707	5.398	1708.87	0.966	47.741	1.98	0.750	60.00	2.36
59	222.35	0.292	48.716	5.548	1708.52	0.993	47.723	2.04	0.750	60.00	2.39
60	222.34	0.292	48.727	5.706	1707.93	1.021	47.706	2.10	0.751	59.98	2.43
61	222.32	0.292	48.736	5.889	1707.37	1.053	47.683	2.16	0.751	60.01	2.47
62	222.30	0.292	48.741	6.103	1707.08	1.091	47.650	2.24	0.751	60.00	2.51
63	222.28	0.292	48.750	6.328	1706.78	1.131	47.619	2.32	0.751	60.00	2.54
64	222.26	0.292	48.764	6.542	1706.28	1.169	47.595	2.40	0.751	60.01	2.59
65	222.26	0.292	48.783	6.774	1705.53	1.210	47.573	2.48	0.752	59.99	2.64
66	222.24	0.292	48.795	7.022	1704.86	1.254	47.541	2.57	0.752	60.01	2.66
67	222.22	0.292	48.803	7.353	1704.54	1.312	47.491	2.69	0.752	60.00	2.72
68	222.21	0.292	48.815	7.657	1704.02	1.366	47.449	2.80	0.752	60.00	2.74
69	222.20	0.292	48.830	7.997	1703.41	1.427	47.403	2.92	0.753	60.01	2.79
70	222.18	0.292	48.841	8.356	1702.51	1.490	47.351	3.05	0.753	59.99	2.82
71	222.16	0.292	48.850	8.737	1701.55	1.557	47.293	3.19	0.753	60.02	2.87
72	222.13	0.291	48.857	9.109	1700.87	1.622	47.235	3.32	0.756	60.00	2.90
73	222.11	0.291	48.865	9.531	1700.29	1.697	47.168	3.47	0.756	59.99	2.95
74	222.08	0.291	48.876	10.001	1699.40	1.780	47.096	3.64	0.756	60.02	2.99
75	222.06	0.290	48.887	10.445	1698.04	1.857	47.030	3.80	0.759	59.99	3.02
76	222.03	0.290	48.905	10.955	1696.87	1.947	46.958	3.98	0.760	60.01	3.07
77	222.01	0.289	48.933	11.486	1695.97	2.040	46.893	4.17	0.763	59.99	3.10
78	222.00	0.289	48.971	12.053	1694.86	2.139	46.832	4.37	0.763	59.98	3.15
79	222.00	0.289	49.017	12.634	1693.40	2.240	46.777	4.57	0.764	60.00	3.18
80	221.99	0.289	49.065	13.299	1691.74	2.356	46.709	4.80	0.765	59.99	3.23
81	221.99	0.288	49.125	14.016	1690.32	2.481	46.644	5.05	0.768	60.01	3.27
82	222.00	0.288	49.188	14.676	1688.85	2.596	46.592	5.28	0.769	60.00	3.31
83	222.01	0.288	49.256	15.382	1687.33	2.718	46.538	5.52	0.770	59.99	3.35
84	222.02	0.288	49.327	16.129	1685.81	2.847	46.480	5.77	0.771	60.01	3.38
85	222.02	0.288	49.391	16.914	1683.73	2.982	46.409	6.04	0.772	59.99	3.43
86	222.03	0.288	49.463	17.739	1681.58	3.124	46.339	6.32	0.774	60.01	3.46
87	222.03	0.287	49.525	18.633	1679.95	3.278	46.247	6.62	0.777	60.00	3.51

88	222.02	0.287	49.589	19.529	1678.20	3.432	46.157	6.92	0.778	60.00	3.54
89	222.03	0.287	49.662	20.406	1675.78	3.581	46.081	7.21	0.779	60.01	3.59
90	222.05	0.286	49.746	21.379	1673.48	3.747	45.999	7.53	0.783	59.99	3.63
91	222.07	0.287	49.850	22.399	1671.10	3.920	45.930	7.86	0.782	60.01	3.66
92	222.10	0.287	49.950	23.457	1668.73	4.099	45.851	8.21	0.784	60.00	3.71
93	222.11	0.287	50.050	24.523	1666.62	4.280	45.770	8.55	0.785	59.99	3.74
94	222.12	0.287	50.149	25.578	1664.16	4.457	45.692	8.89	0.787	60.01	3.79
95	222.12	0.287	50.254	26.681	1661.38	4.642	45.612	9.24	0.788	60.00	3.82
96	222.14	0.287	50.378	27.838	1658.64	4.835	45.543	9.60	0.790	60.01	3.87
97	222.16	0.288	50.508	29.059	1656.11	5.040	45.468	9.98	0.789	60.01	3.91
98	222.18	0.288	50.640	30.288	1653.36	5.244	45.396	10.36	0.791	59.99	3.95
99	222.20	0.288	50.769	31.500	1650.23	5.444	45.325	10.72	0.793	60.01	3.99
100	222.21	0.288	50.900	32.749	1647.05	5.648	45.252	11.10	0.795	59.99	4.02
101	222.24	0.289	51.042	34.073	1643.59	5.865	45.177	11.49	0.795	60.01	4.07
102	222.25	0.289	51.187	35.437	1640.58	6.088	45.099	11.89	0.797	60.00	4.10
103	222.28	0.290	51.338	36.771	1637.31	6.305	45.033	12.28	0.796	59.98	4.15
104	222.29	0.290	51.490	38.095	1633.76	6.518	44.972	12.66	0.799	60.00	4.20
105	222.28	0.290	51.632	39.458	1630.18	6.736	44.896	13.05	0.801	59.99	4.23
106	222.28	0.291	51.779	40.827	1626.31	6.953	44.826	13.43	0.801	60.00	4.27
107	222.26	0.291	51.921	42.223	1622.90	7.176	44.745	13.82	0.803	60.00	4.31
108	222.23	0.291	52.066	43.650	1619.06	7.401	44.665	14.22	0.805	59.99	4.35
109	222.20	0.292	52.215	45.038	1615.11	7.617	44.598	14.59	0.805	60.01	4.38
110	222.17	0.292	52.358	46.477	1610.80	7.840	44.518	14.97	0.807	60.00	4.43
111	222.14	0.292	52.509	47.930	1606.56	8.064	44.445	15.36	0.810	60.01	4.46
112	222.10	0.292	52.656	49.455	1602.57	8.300	44.356	15.76	0.812	60.01	4.51
113	222.06	0.292	52.811	50.942	1598.36	8.527	44.284	16.15	0.814	60.00	4.56
114	222.02	0.292	52.973	52.442	1594.04	8.754	44.219	16.53	0.817	60.01	4.59
115	221.99	0.292	53.137	53.947	1589.31	8.979	44.158	16.90	0.820	60.00	4.63
116	221.97	0.292	53.318	55.458	1584.74	9.203	44.115	17.26	0.823	60.00	4.66
117	221.95	0.292	53.504	56.978	1580.22	9.429	44.075	17.62	0.826	60.00	4.71
118	221.94	0.292	53.699	58.449	1575.58	9.644	44.055	17.96	0.829	59.99	4.74
119	221.95	0.292	53.912	59.950	1570.73	9.861	44.051	18.29	0.832	60.01	4.79
120	221.96	0.292	54.125	61.416	1565.57	10.069	44.056	18.60	0.835	59.99	4.84
121	221.98	0.292	54.357	62.909	1560.40	10.280	44.077	18.91	0.839	60.00	4.87
122	222.01	0.292	54.596	64.373	1555.37	10.485	44.111	19.21	0.842	60.00	4.91
123	222.05	0.292	54.850	65.841	1550.30	10.689	44.161	19.49	0.846	59.99	4.95
124	222.09	0.293	55.122	67.284	1544.92	10.885	44.237	19.75	0.847	60.01	4.99
125	222.14	0.294	55.390	68.743	1539.37	11.082	44.308	20.01	0.848	59.99	5.02
126	222.17	0.294	55.665	70.215	1533.82	11.278	44.387	20.26	0.852	60.00	5.07
127	222.20	0.295	55.928	71.641	1528.30	11.466	44.462	20.50	0.853	60.00	5.10
128	222.23	0.295	56.194	73.062	1522.70	11.650	44.544	20.73	0.857	59.99	5.15
129	222.25	0.296	56.466	74.430	1516.81	11.822	44.644	20.94	0.858	60.01	5.23
130	222.24	0.296	56.735	75.900	1510.25	12.004	44.731	21.16	0.862	60.00	5.31
131	222.23	0.297	57.045	77.542	1502.86	12.203	44.842	21.39	0.864	60.00	5.38
132	222.22	0.299	57.392	79.261	1494.45	12.404	44.988	21.61	0.864	60.01	5.47

133	222.19	0.300	57.777	81.069	1485.01	12.607	45.170	21.82	0.867	60.00	5.55
134	222.15	0.301	58.202	82.954	1474.38	12.808	45.394	22.01	0.870	60.00	5.63
135	222.11	0.303	58.674	84.932	1462.46	13.007	45.667	22.17	0.872	60.00	5.71
136	222.08	0.304	59.198	86.967	1449.48	13.201	45.997	22.30	0.877	60.00	5.79
137	222.04	0.307	59.758	89.018	1435.15	13.378	46.380	22.39	0.877	60.00	5.86
138	222.02	0.309	60.376	91.001	1419.92	13.531	46.845	22.41	0.880	60.00	5.94
139	222.01	0.311	61.008	92.814	1403.86	13.645	47.363	22.37	0.884	60.00	6.02
140	221.97	0.313	61.621	94.468	1387.19	13.723	47.898	22.27	0.887	60.00	6.11
141	221.94	0.316	62.249	95.926	1369.90	13.761	48.488	22.11	0.888	60.00	6.19
142	221.93	0.318	62.898	97.200	1351.90	13.761	49.137	21.88	0.891	60.01	6.27
143	221.92	0.320	63.561	98.257	1333.26	13.718	49.843	21.58	0.895	60.00	6.35
144	221.92	0.323	64.243	99.082	1313.77	13.631	50.612	21.22	0.896	60.01	6.43
145	221.94	0.326	64.931	99.731	1293.82	13.512	51.419	20.81	0.897	60.00	6.50
146	221.95	0.328	65.606	100.136	1272.91	13.348	52.258	20.35	0.901	60.00	6.58
147	221.95	0.331	66.267	100.259	1251.35	13.138	53.129	19.83	0.902	60.00	6.66
148	221.93	0.334	66.932	100.129	1228.83	12.885	54.047	19.25	0.903	60.00	6.75
149	221.93	0.337	67.603	99.762	1205.49	12.594	55.009	18.63	0.904	60.00	6.83
150	221.90	0.340	68.237	99.084	1181.04	12.255	55.982	17.96	0.904	60.00	6.91
151	221.87	0.342	68.851	98.196	1155.94	11.887	56.964	17.27	0.907	60.01	6.99
152	221.84	0.345	69.444	97.037	1129.79	11.481	57.963	16.53	0.907	60.00	7.07
153	221.81	0.348	70.029	95.627	1102.74	11.043	58.986	15.77	0.907	60.01	7.15
154	221.79	0.351	70.606	94.009	1075.34	10.586	60.020	14.99	0.907	60.01	7.22
155	221.77	0.354	71.160	92.206	1047.02	10.110	61.050	14.21	0.906	60.00	7.30
156	221.79	0.356	71.694	90.284	1018.53	9.630	62.064	13.43	0.908	60.01	7.40
157	221.80	0.359	72.187	88.211	989.37	9.139	63.048	12.66	0.907	60.00	7.47
158	221.81	0.362	72.653	86.046	960.19	8.652	64.001	11.91	0.905	60.00	7.55
159	221.83	0.364	73.078	83.785	930.82	8.167	64.911	11.18	0.905	59.99	7.63
160	221.84	0.366	73.462	81.570	901.77	7.703	65.759	10.49	0.905	59.99	7.70
161	221.85	0.368	73.807	79.407	873.00	7.259	66.548	9.84	0.904	60.00	7.78
162	221.86	0.369	74.101	77.305	844.31	6.835	67.266	9.22	0.905	60.00	7.91
163	221.85	0.370	74.357	75.284	815.50	6.429	67.928	8.65	0.906	60.00	8.03
164	221.81	0.372	74.571	73.342	786.06	6.037	68.534	8.10	0.904	60.00	8.14
165	221.79	0.373	74.775	71.561	756.06	5.666	69.109	7.58	0.904	60.00	8.27
166	221.80	0.374	74.990	70.041	725.78	5.323	69.667	7.10	0.904	60.00	8.39
167	221.83	0.375	75.217	68.758	695.09	5.005	70.212	6.65	0.904	60.00	8.50
168	221.87	0.375	75.445	67.693	664.02	4.707	70.738	6.24	0.907	60.00	8.63
169	221.90	0.376	75.669	66.826	632.34	4.425	71.244	5.85	0.907	60.01	8.78
170	221.93	0.377	75.902	66.136	599.50	4.152	71.750	5.47	0.907	60.00	8.95
171	221.94	0.378	76.139	65.600	565.10	3.882	72.257	5.10	0.908	60.00	9.11
172	221.96	0.378	76.393	65.162	529.30	3.612	72.781	4.73	0.911	60.00	9.31
173	221.96	0.379	76.674	64.703	491.32	3.329	73.345	4.34	0.911	60.00	9.52
174	221.98	0.380	76.987	64.115	450.12	3.022	73.965	3.93	0.913	60.00	9.70
175	222.01	0.381	77.324	63.253	405.03	2.683	74.641	3.47	0.914	60.00	9.91
176	222.02	0.383	77.672	61.752	353.44	2.286	75.386	2.94	0.913	60.00	10.11
177	221.98	0.384	77.979	59.949	298.64	1.875	76.104	2.40	0.915	60.00	10.31

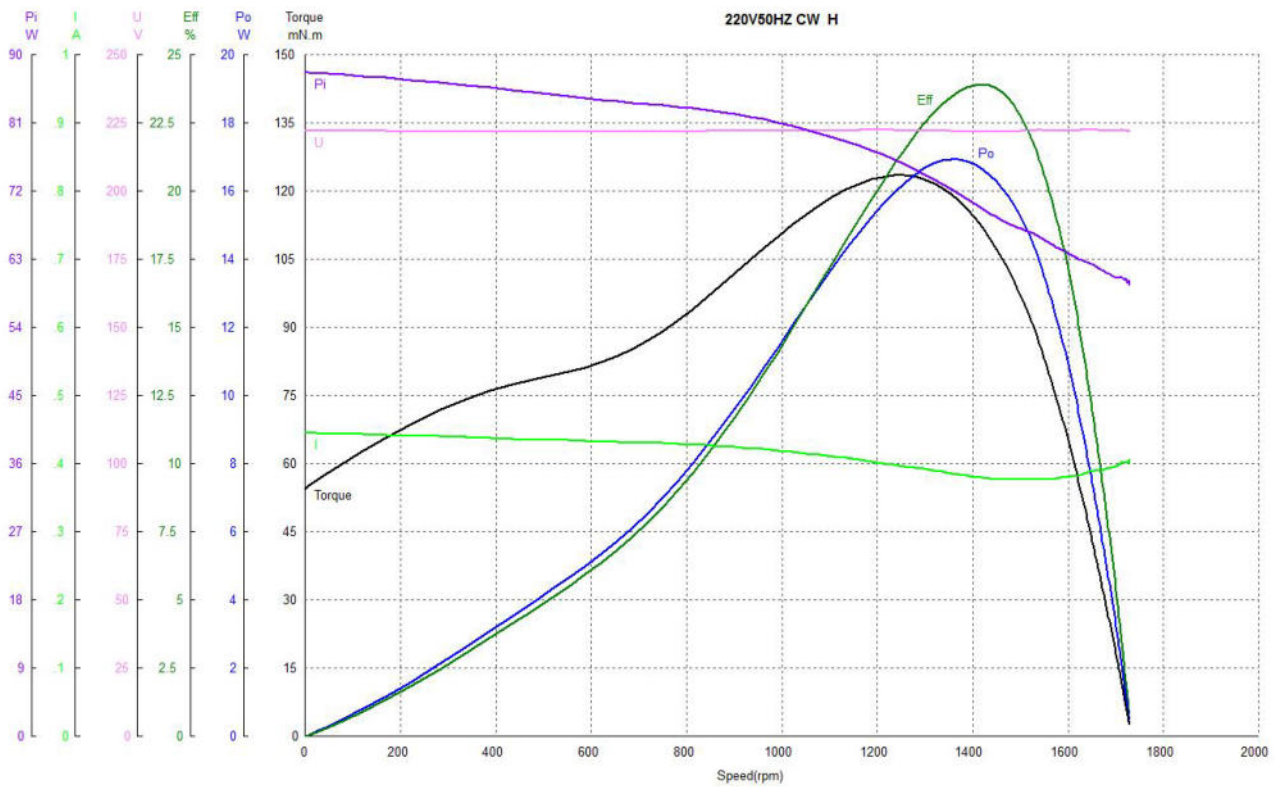
178	221.95	0.386	78.270	57.402	238.04	1.431	76.839	1.83	0.914	60.00	10.51
179	221.93	0.387	78.523	54.727	183.12	1.049	77.474	1.34	0.914	60.00	10.70
180	221.94	0.388	78.751	52.179	133.77	0.731	78.020	0.93	0.914	60.00	10.90
181	221.95	0.389	78.924	49.810	91.04	0.475	78.449	0.60	0.914	60.00	11.11
182	221.93	0.389	79.022	47.680	55.53	0.277	78.745	0.35	0.915	60.00	11.31
183	221.90	0.390	79.059	45.829	27.77	0.133	78.926	0.17	0.914	60.00	11.51
184	221.85	0.390	79.031	44.600	10.31	0.048	78.983	0.06	0.913	60.00	11.72
185	221.86	0.390	79.025	43.638	0.00	0.000	79.025	0.00	0.913	60.00	11.90

OD7816 ZSA motor

H

Customer: HJ Voltage: 220V/60Hz
 FileName: 测功记录 Tester: Mu
 Motor Type: 7816 ZSA motor Test Date: 2022.9.3
 Number: 1
 Direction of Rotation: CW

Performance Curve



Performance Data Summary

	U	I	Pi	Torque	Speed	Po	Pi-Po	Eff	P.F	Freq
	V	A	W	mN.m	rpm	W	W	%		Hz
No Load Point	221.76	0.403	59.807	2.775	1728.46	0.502	59.305	0.84	0.669	60.00
Max Efficient Point	221.50	0.379	69.609	111.939	1419.86	16.644	52.965	23.91	0.829	60.00
Max Pout Point	221.84	0.386	72.200	119.363	1353.88	16.923	55.277	23.44	0.843	60.00
Max Torque Point	222.18	0.398	76.119	123.426	1233.86	15.948	60.171	20.95	0.861	60.00
Block Point/End Point	222.01	0.445	87.572	54.299	0.00	0.000	87.572	0.00	0.886	60.00

Performance Data

	U	I	Pi	Torque	Speed	Po	Pi-Po	Eff	P.F	Freq	Time
	V	A	W	mN.m	rpm	W	W	%		Hz	s
1	221.76	0.403	59.807	2.775	1728.46	0.502	59.305	0.84	0.669	60.00	0.06
2	221.70	0.403	59.762	2.745	1728.48	0.497	59.265	0.83	0.669	60.00	0.11
3	221.64	0.402	59.704	2.730	1728.67	0.494	59.210	0.83	0.670	60.00	0.16
4	221.59	0.402	59.655	2.709	1728.90	0.490	59.165	0.82	0.670	60.01	0.19
5	221.54	0.402	59.608	2.707	1728.78	0.490	59.118	0.82	0.669	59.99	0.23
6	221.51	0.402	59.578	2.738	1728.48	0.496	59.082	0.83	0.669	60.01	0.27
7	221.49	0.402	59.564	2.780	1728.46	0.503	59.061	0.84	0.669	60.00	0.31
8	221.51	0.402	59.562	2.785	1728.64	0.504	59.058	0.85	0.669	60.01	0.34
9	221.54	0.402	59.576	2.779	1728.86	0.503	59.073	0.84	0.669	60.01	0.39
10	221.58	0.402	59.604	2.782	1728.88	0.504	59.100	0.85	0.669	59.99	0.42
11	221.64	0.402	59.649	2.769	1728.59	0.501	59.148	0.84	0.669	60.01	0.47
12	221.69	0.402	59.703	2.779	1728.45	0.503	59.200	0.84	0.670	60.00	0.52
13	221.75	0.402	59.761	2.809	1728.54	0.508	59.253	0.85	0.670	60.00	0.55
14	221.82	0.403	59.823	2.796	1728.78	0.506	59.317	0.85	0.669	60.01	0.59
15	221.87	0.403	59.864	2.779	1728.87	0.503	59.361	0.84	0.670	60.00	0.63
16	221.90	0.403	59.889	2.792	1728.81	0.505	59.384	0.84	0.670	60.01	0.67
17	221.92	0.403	59.911	2.819	1728.68	0.510	59.401	0.85	0.670	60.00	0.70
18	221.94	0.403	59.930	2.834	1728.56	0.513	59.417	0.86	0.670	60.00	0.75
19	221.96	0.403	59.954	2.854	1728.62	0.517	59.437	0.86	0.670	60.00	0.80
20	221.99	0.404	59.978	2.853	1728.67	0.516	59.462	0.86	0.669	60.00	0.83
21	222.02	0.404	60.006	2.848	1728.65	0.516	59.490	0.86	0.669	60.01	0.88
22	222.05	0.404	60.035	2.870	1728.62	0.520	59.515	0.87	0.669	60.00	0.90
23	222.08	0.404	60.075	2.886	1728.49	0.522	59.553	0.87	0.670	60.00	0.95
24	222.11	0.405	60.119	2.915	1728.34	0.528	59.591	0.88	0.668	60.01	0.98
25	222.13	0.405	60.147	2.923	1728.21	0.529	59.618	0.88	0.669	59.99	1.03
26	222.15	0.405	60.165	2.971	1728.12	0.538	59.627	0.89	0.669	60.00	1.06
27	222.16	0.405	60.171	3.019	1728.08	0.546	59.625	0.91	0.669	60.00	1.11
28	222.14	0.405	60.157	3.076	1727.99	0.557	59.600	0.93	0.669	60.00	1.15
29	222.12	0.404	60.134	3.132	1727.83	0.567	59.567	0.94	0.670	60.01	1.18
30	222.08	0.404	60.105	3.201	1727.70	0.579	59.526	0.96	0.670	60.00	1.23
31	222.05	0.404	60.071	3.279	1727.60	0.593	59.478	0.99	0.670	60.01	1.26
32	222.02	0.403	60.038	3.350	1727.55	0.606	59.432	1.01	0.671	60.01	1.31
33	222.01	0.402	60.018	3.444	1727.43	0.623	59.395	1.04	0.672	60.00	1.34
34	221.99	0.402	60.010	3.499	1727.34	0.633	59.377	1.06	0.672	60.01	1.39
35	221.98	0.402	60.004	3.581	1727.25	0.648	59.356	1.08	0.672	60.00	1.43
36	221.97	0.402	60.008	3.642	1727.15	0.659	59.349	1.10	0.673	60.00	1.47
37	221.96	0.402	60.011	3.706	1727.10	0.670	59.341	1.12	0.673	60.00	1.51
38	221.94	0.402	60.003	3.781	1726.82	0.684	59.319	1.14	0.673	60.00	1.54
39	221.91	0.402	60.000	3.869	1726.50	0.700	59.300	1.17	0.673	60.00	1.59
40	221.88	0.402	59.991	3.990	1726.31	0.721	59.270	1.20	0.673	60.00	1.62
41	221.85	0.402	59.972	4.099	1726.29	0.741	59.231	1.24	0.672	60.01	1.67
42	221.82	0.402	59.950	4.198	1726.28	0.759	59.191	1.27	0.672	60.00	1.72

43	221.78	0.402	59.918	4.301	1726.11	0.777	59.141	1.30	0.672	60.01	1.75
44	221.75	0.402	59.892	4.411	1725.78	0.797	59.095	1.33	0.672	60.01	1.79
45	221.73	0.402	59.873	4.549	1725.49	0.822	59.051	1.37	0.672	60.00	1.82
46	221.72	0.402	59.864	4.633	1725.44	0.837	59.027	1.40	0.672	60.00	1.87
47	221.71	0.402	59.860	4.747	1725.51	0.858	59.002	1.43	0.672	60.00	1.90
48	221.71	0.402	59.858	4.808	1725.37	0.869	58.989	1.45	0.672	60.00	1.95
49	221.72	0.402	59.866	4.902	1725.06	0.886	58.980	1.48	0.672	60.00	1.98
50	221.73	0.402	59.881	5.056	1724.67	0.913	58.968	1.53	0.672	60.00	2.03
51	221.77	0.402	59.919	5.163	1724.43	0.932	58.987	1.56	0.672	60.01	2.07
52	221.81	0.402	59.962	5.277	1724.31	0.953	59.009	1.59	0.672	60.00	2.11
53	221.85	0.402	60.004	5.397	1724.07	0.974	59.030	1.62	0.673	60.01	2.15
54	221.91	0.402	60.052	5.549	1723.74	1.002	59.050	1.67	0.673	60.01	2.18
55	221.97	0.402	60.103	5.705	1723.36	1.030	59.073	1.71	0.674	60.00	2.23
56	222.03	0.402	60.161	5.904	1723.14	1.065	59.096	1.77	0.674	60.01	2.26
57	222.08	0.402	60.225	6.056	1722.95	1.093	59.132	1.82	0.675	60.00	2.31
58	222.13	0.402	60.276	6.175	1722.50	1.114	59.162	1.85	0.675	60.00	2.36
59	222.15	0.402	60.308	6.360	1722.01	1.147	59.161	1.90	0.675	60.01	2.39
60	222.15	0.402	60.319	6.602	1721.63	1.190	59.129	1.97	0.675	60.00	2.43
61	222.14	0.402	60.315	6.812	1721.35	1.228	59.087	2.04	0.675	60.01	2.47
62	222.12	0.402	60.307	7.061	1721.07	1.273	59.034	2.11	0.675	60.00	2.51
63	222.09	0.402	60.292	7.282	1720.59	1.312	58.980	2.18	0.675	60.01	2.54
64	222.05	0.402	60.274	7.516	1720.00	1.354	58.920	2.25	0.675	60.01	2.59
65	222.02	0.402	60.252	7.822	1719.36	1.408	58.844	2.34	0.675	60.00	2.62
66	221.99	0.402	60.242	8.144	1718.91	1.466	58.776	2.43	0.675	60.01	2.67
67	221.99	0.402	60.250	8.482	1718.44	1.526	58.724	2.53	0.675	60.00	2.72
68	222.00	0.402	60.273	8.830	1717.86	1.588	58.685	2.64	0.675	60.00	2.75
69	222.02	0.402	60.313	9.216	1717.18	1.657	58.656	2.75	0.676	60.01	2.79
70	222.06	0.402	60.357	9.624	1716.41	1.730	58.627	2.87	0.676	60.00	2.82
71	222.10	0.402	60.408	10.083	1715.50	1.811	58.597	3.00	0.677	60.00	2.87
72	222.15	0.402	60.464	10.564	1714.58	1.897	58.567	3.14	0.677	60.00	2.90
73	222.19	0.402	60.509	11.068	1713.74	1.986	58.523	3.28	0.677	60.00	2.95
74	222.21	0.402	60.551	11.612	1712.81	2.083	58.468	3.44	0.678	60.01	3.00
75	222.22	0.401	60.572	12.149	1711.66	2.178	58.394	3.60	0.680	60.01	3.03
76	222.20	0.401	60.577	12.753	1710.42	2.284	58.293	3.77	0.680	60.01	3.07
77	222.17	0.400	60.577	13.417	1709.29	2.402	58.175	3.97	0.682	60.01	3.11
78	222.12	0.399	60.560	14.082	1708.17	2.519	58.041	4.16	0.683	60.00	3.15
79	222.06	0.398	60.543	14.776	1706.82	2.641	57.902	4.36	0.685	60.01	3.18
80	221.99	0.397	60.523	15.520	1705.22	2.771	57.752	4.58	0.687	60.00	3.23
81	221.93	0.397	60.510	16.331	1703.68	2.914	57.596	4.82	0.687	60.00	3.28
82	221.89	0.396	60.504	17.190	1702.24	3.064	57.440	5.06	0.689	60.00	3.31
83	221.86	0.395	60.517	18.083	1700.72	3.221	57.296	5.32	0.691	60.00	3.36
84	221.85	0.395	60.552	18.966	1698.98	3.374	57.178	5.57	0.691	60.00	3.39
85	221.85	0.395	60.601	19.904	1697.07	3.537	57.064	5.84	0.692	60.00	3.43
86	221.87	0.394	60.663	20.905	1694.88	3.710	56.953	6.12	0.694	60.01	3.47
87	221.89	0.394	60.727	21.944	1693.01	3.890	56.837	6.41	0.695	60.01	3.51

88	221.91	0.394	60.795	23.027	1691.30	4.078	56.717	6.71	0.695	60.00	3.54
89	221.94	0.394	60.873	24.090	1689.15	4.261	56.612	7.00	0.696	60.01	3.59
90	221.96	0.393	60.955	25.211	1686.61	4.453	56.502	7.31	0.699	60.00	3.63
91	221.99	0.393	61.042	26.395	1684.30	4.656	56.386	7.63	0.700	60.01	3.67
92	222.01	0.392	61.130	27.614	1682.18	4.864	56.266	7.96	0.702	60.01	3.71
93	222.04	0.392	61.211	28.812	1679.69	5.068	56.143	8.28	0.703	60.00	3.75
94	222.06	0.391	61.298	30.067	1677.25	5.281	56.017	8.62	0.706	60.01	3.79
95	222.07	0.391	61.388	31.382	1674.62	5.503	55.885	8.96	0.707	60.00	3.82
96	222.09	0.390	61.481	32.686	1671.63	5.722	55.759	9.31	0.710	60.01	3.87
97	222.12	0.390	61.585	34.085	1669.04	5.957	55.628	9.67	0.711	60.01	3.91
98	222.16	0.390	61.693	35.465	1666.44	6.189	55.504	10.03	0.712	60.00	3.95
99	222.19	0.390	61.798	36.893	1663.42	6.427	55.371	10.40	0.713	60.01	3.99
100	222.22	0.390	61.907	38.333	1660.27	6.665	55.242	10.77	0.714	60.00	4.02
101	222.25	0.390	62.020	39.836	1657.15	6.913	55.107	11.15	0.716	60.00	4.07
102	222.28	0.390	62.140	41.363	1654.19	7.165	54.975	11.53	0.717	60.00	4.10
103	222.32	0.389	62.260	42.894	1651.12	7.417	54.843	11.91	0.720	60.00	4.15
104	222.35	0.389	62.372	44.435	1647.97	7.668	54.704	12.29	0.721	60.00	4.18
105	222.36	0.388	62.474	46.020	1644.38	7.925	54.549	12.69	0.724	60.00	4.23
106	222.35	0.387	62.559	47.628	1640.70	8.183	54.376	13.08	0.727	60.01	4.27
107	222.32	0.386	62.643	49.262	1637.32	8.446	54.197	13.48	0.730	60.01	4.31
108	222.29	0.385	62.725	50.908	1633.63	8.709	54.016	13.88	0.733	60.00	4.35
109	222.25	0.384	62.809	52.548	1629.98	8.969	53.840	14.28	0.736	60.01	4.38
110	222.21	0.383	62.900	54.192	1625.87	9.227	53.673	14.67	0.739	60.00	4.43
111	222.18	0.382	62.995	55.859	1622.00	9.488	53.507	15.06	0.742	60.00	4.46
112	222.16	0.382	63.106	57.561	1618.21	9.754	53.352	15.46	0.744	60.00	4.51
113	222.14	0.381	63.232	59.221	1614.42	10.012	53.220	15.83	0.747	59.99	4.56
114	222.14	0.381	63.370	60.871	1610.38	10.265	53.105	16.20	0.749	60.00	4.59
115	222.14	0.381	63.514	62.549	1606.18	10.521	52.993	16.57	0.750	59.99	4.63
116	222.15	0.381	63.659	64.267	1601.94	10.781	52.878	16.94	0.752	60.00	4.66
117	222.16	0.380	63.811	66.018	1597.74	11.046	52.765	17.31	0.756	60.00	4.71
118	222.17	0.380	63.967	67.729	1593.51	11.302	52.665	17.67	0.758	60.00	4.74
119	222.18	0.379	64.127	69.453	1588.90	11.556	52.571	18.02	0.762	60.01	4.79
120	222.17	0.379	64.292	71.169	1584.11	11.806	52.486	18.36	0.764	59.99	4.82
121	222.16	0.378	64.442	72.895	1579.19	12.055	52.387	18.71	0.767	60.00	4.87
122	222.15	0.378	64.602	74.655	1574.54	12.309	52.293	19.05	0.769	60.01	4.91
123	222.15	0.377	64.775	76.377	1569.80	12.556	52.219	19.38	0.773	60.00	4.95
124	222.15	0.377	64.953	78.067	1564.84	12.793	52.160	19.70	0.776	60.01	4.99
125	222.16	0.377	65.145	79.738	1559.58	13.023	52.122	19.99	0.778	60.00	5.02
126	222.16	0.377	65.333	81.487	1554.43	13.264	52.069	20.30	0.780	60.00	5.07
127	222.17	0.377	65.535	83.187	1549.31	13.497	52.038	20.60	0.782	60.01	5.12
128	222.19	0.377	65.747	84.925	1544.23	13.733	52.014	20.89	0.785	60.00	5.15
129	222.21	0.377	65.959	86.599	1538.93	13.956	52.003	21.16	0.787	60.01	5.20
130	222.20	0.377	66.158	88.277	1533.34	14.175	51.983	21.43	0.790	59.99	5.23
131	222.17	0.377	66.334	89.925	1527.47	14.384	51.950	21.68	0.792	60.00	5.27
132	222.13	0.377	66.505	91.569	1521.82	14.593	51.912	21.94	0.794	60.00	5.31

133	222.06	0.377	66.661	93.200	1516.08	14.797	51.864	22.20	0.796	59.99	5.38
134	221.98	0.377	66.818	94.816	1509.56	14.989	51.829	22.43	0.798	60.00	5.48
135	221.88	0.377	66.985	96.623	1502.09	15.199	51.786	22.69	0.801	60.00	5.56
136	221.75	0.377	67.167	98.512	1493.60	15.408	51.759	22.94	0.803	60.00	5.63
137	221.63	0.377	67.403	100.536	1484.14	15.625	51.778	23.18	0.807	60.00	5.71
138	221.55	0.377	67.710	102.683	1473.76	15.847	51.863	23.40	0.811	60.00	5.79
139	221.49	0.377	68.083	104.923	1462.15	16.065	52.018	23.60	0.815	60.00	5.87
140	221.46	0.377	68.521	107.239	1449.22	16.275	52.246	23.75	0.821	60.00	5.94
141	221.46	0.378	69.029	109.603	1434.91	16.469	52.560	23.86	0.825	60.00	6.02
142	221.50	0.379	69.609	111.939	1419.86	16.644	52.965	23.91	0.829	60.00	6.12
143	221.57	0.380	70.236	114.065	1404.33	16.774	53.462	23.88	0.834	60.00	6.19
144	221.66	0.382	70.884	116.014	1388.20	16.865	54.019	23.79	0.837	60.00	6.27
145	221.76	0.384	71.545	117.823	1371.36	16.920	54.625	23.65	0.840	60.00	6.35
146	221.84	0.386	72.200	119.363	1353.88	16.923	55.277	23.44	0.843	60.00	6.43
147	221.91	0.388	72.855	120.669	1335.74	16.879	55.976	23.17	0.846	60.00	6.50
148	221.97	0.390	73.519	121.750	1316.99	16.791	56.728	22.84	0.849	60.00	6.58
149	222.04	0.392	74.182	122.537	1297.42	16.648	57.534	22.44	0.852	60.00	6.66
150	222.10	0.394	74.835	123.101	1277.35	16.466	58.369	22.00	0.855	60.00	6.75
151	222.15	0.396	75.481	123.405	1256.19	16.234	59.247	21.51	0.858	60.00	6.83
152	222.18	0.398	76.119	123.426	1233.86	15.948	60.171	20.95	0.861	60.00	6.91
153	222.19	0.400	76.747	123.079	1210.82	15.606	61.141	20.33	0.864	60.00	6.99
154	222.20	0.403	77.358	122.481	1186.58	15.219	62.139	19.67	0.864	60.01	7.07
155	222.19	0.405	77.955	121.566	1161.37	14.785	63.170	18.97	0.866	60.00	7.15
156	222.16	0.408	78.522	120.307	1135.26	14.303	64.219	18.22	0.866	60.00	7.22
157	222.13	0.410	79.066	118.784	1108.23	13.785	65.281	17.44	0.868	60.00	7.30
158	222.09	0.413	79.591	116.960	1079.86	13.226	66.365	16.62	0.868	60.00	7.40
159	222.04	0.415	80.091	114.822	1050.97	12.637	67.454	15.78	0.869	60.00	7.47
160	222.01	0.417	80.568	112.527	1021.78	12.040	68.528	14.94	0.870	60.00	7.55
161	221.98	0.419	81.015	110.036	991.82	11.429	69.586	14.11	0.871	60.00	7.63
162	221.94	0.421	81.424	107.387	961.58	10.813	70.611	13.28	0.871	60.00	7.71
163	221.90	0.422	81.785	104.650	931.36	10.207	71.578	12.48	0.873	60.00	7.79
164	221.87	0.424	82.109	101.897	900.92	9.613	72.496	11.71	0.873	60.00	7.86
165	221.85	0.425	82.402	99.164	871.08	9.046	73.356	10.98	0.874	60.00	7.96
166	221.82	0.427	82.662	96.483	841.83	8.506	74.156	10.29	0.873	60.00	8.07
167	221.80	0.428	82.887	93.952	812.37	7.993	74.894	9.64	0.873	60.00	8.19
168	221.77	0.429	83.081	91.463	781.70	7.487	75.594	9.01	0.873	60.00	8.31
169	221.73	0.430	83.249	89.174	750.62	7.010	76.239	8.42	0.873	60.00	8.43
170	221.70	0.431	83.399	87.054	718.98	6.554	76.845	7.86	0.873	60.00	8.55
171	221.68	0.431	83.569	85.182	686.85	6.127	77.442	7.33	0.875	60.00	8.67
172	221.71	0.432	83.793	83.603	654.81	5.733	78.060	6.84	0.875	60.00	8.78
173	221.73	0.432	84.004	82.257	621.97	5.358	78.646	6.38	0.877	60.00	8.95
174	221.76	0.433	84.227	81.114	587.61	4.991	79.236	5.93	0.877	60.00	9.11
175	221.77	0.434	84.463	80.134	551.86	4.631	79.832	5.48	0.878	60.00	9.27
176	221.78	0.434	84.717	79.311	515.36	4.280	80.437	5.05	0.880	60.00	9.47
177	221.77	0.435	84.990	78.436	476.63	3.915	81.075	4.61	0.881	60.00	9.67

178	221.77	0.436	85.295	77.411	434.45	3.522	81.773	4.13	0.882	60.00	9.88
179	221.80	0.438	85.641	76.141	388.70	3.099	82.542	3.62	0.882	60.00	10.06
180	221.80	0.439	85.971	74.060	337.16	2.615	83.356	3.04	0.883	60.00	10.27
181	221.80	0.440	86.304	71.772	281.04	2.112	84.192	2.45	0.884	60.00	10.47
182	221.79	0.441	86.612	68.692	222.61	1.601	85.011	1.85	0.886	60.00	10.67
183	221.82	0.442	86.904	65.694	169.49	1.166	85.738	1.34	0.886	60.00	10.88
184	221.83	0.443	87.116	62.847	122.05	0.803	86.313	0.92	0.886	60.00	11.06
185	221.86	0.444	87.303	60.296	81.23	0.513	86.790	0.59	0.886	60.00	11.26
186	221.91	0.444	87.453	58.070	48.29	0.294	87.159	0.34	0.888	60.00	11.47
187	221.95	0.445	87.533	56.187	23.04	0.136	87.397	0.16	0.886	60.00	11.67
188	222.00	0.445	87.580	55.142	7.19	0.042	87.538	0.05	0.887	60.00	11.87
189	222.01	0.445	87.572	54.299	0.00	0.000	87.572	0.00	0.886	60.00	12.07