

内嵌式高性能永磁伺服电机技术参数表 (215 系列)

▲ 电机参数

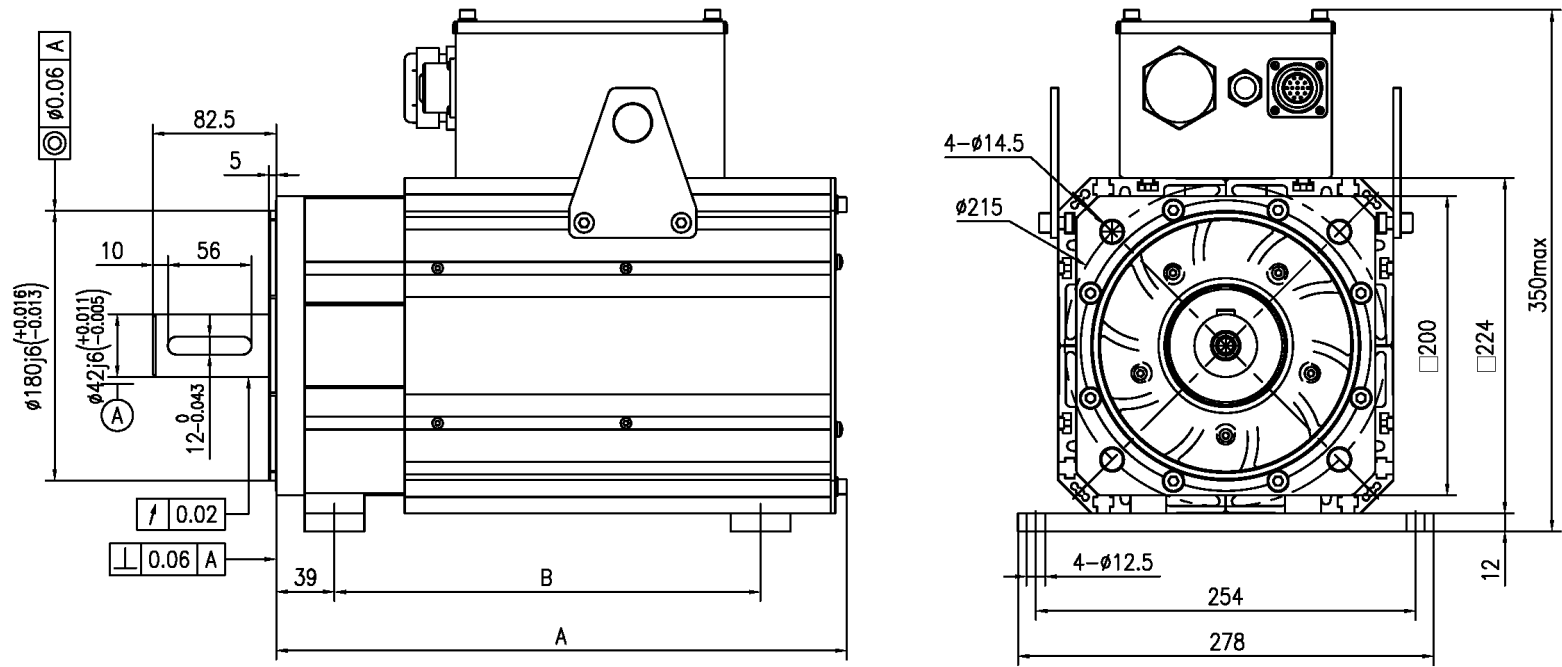
电机型号	额定功率 (kW)	额定电压 (V)	额定电流 (A)	额定转矩 (Nm)	额定转速 (rpm)	额定频率 (Hz)	反电势 (V)	Kt 热态	电机极数 2P	峰值转速 (rpm)	峰值扭矩 (Nm)	峰值电流 (A)	惯量 (kgcm ²)	线电阻 (Ω)	电感(Ld) (mH)	电感(Lq) (mH)
215YS45-15F	7.1	380	13.6	45	1500	100	312	3.31	8	2200	88	28	62	1.531	10.5	20.7
215YS55-15F	8.6	380	16.3	55	1500	100	320	3.37	8	2200	88	27.5	62	1.391	11.0	21.8
215YS65-15F	10.2	380	19.1	65	1500	100	321	3.4	8	2200	104	32.5	73	1.098	9.32	18.32
215YS70-15F	11.6	380	23.9	74	1500	100	294	3.1	8	2200	130	42	81	0.694	6.74	13.3
215YS80-15F	13.2	380	24.6	84	1500	100	327	3.41	8	2200	145	45	87	0.805	7.75	15.33
215YS90-15F	14.5	380	28.8	92	1500	100	309	3.22	8	2200	180	56	95	0.545	5.75	11.3
215YS105-15F	17	380	31.8	108	1500	100	327	3.4	8	2200	195	63	112	0.533	5.95	11.65
215YS110-15F	18	380	35.9	115	1500	100	304	3.2	8	2200	228	73	120	0.376	4.38	8.64
215YS130-15F	20.4	380	39.2	130	1500	100	312	3.32	8	2200	248	83	137	0.358	4.12	8.54
215YS140-15F	22.3	380	44.3	142	1500	100	305	3.2	8	2200	280	91	145	0.289	3.61	7.13
215YS155-15F	24.5	380	44.7	156	1500	100	327	3.49	8	2200	300	104	160	0.311	3.83	7.56
215YS160-15F	25.9	380	51	165	1500	100	308	3.23	8	2200	330	110	168	0.241	3.13	6.17
215YS180-15F	28.3	380	52	180	1500	100	327	3.46	8	2200	360	130	187	0.261	3.35	6.75
215YS190-15F	29.8	380	61.7	190	1500	100	293	3.08	8	2200	380	128	195	0.196	2.5	4.93
215YS200-15F	32.2	380	61.8	205	1500	100	312	3.32	8	2200	420	140	213	0.201	2.55	5.05
215YS45-17F	8	380	15.1	45	1700	113.3	318	2.98	8	2500	89	33	62	1.272	9.21	18.73
215YS55-17F	9.8	380	18.5	55	1700	113.3	318	2.97	8	2500	89	32.5	62	1.075	9.21	18.82
215YS65-17F	11.5	380	21.3	65	1700	113.3	321	3.05	8	2500	104	37.5	73	0.917	7.72	15.21
215YS70-17F	13	380	23.7	73	1700	113.3	322	3.08	8	2300	110	35	81	0.694	6.74	13.3
215YS80-17F	15	380	28.3	84	1700	113.3	318	2.97	8	2500	147	54	87	0.608	5.75	11.15
215YS90-17F	16.4	380	27.4	92	1700	113.3	350	3.35	8	2300	154	50	95	0.545	5.75	11.4
215YS105-17F	18.7	380	35.3	105	1700	113.3	318	2.97	8	2500	202	74	112	0.391	4.15	8.3
215YS110-17F	20	380	33.9	112	1700	113.3	345	3.3	8	2300	200	65	120	0.376	4.38	8.64
215YS130-17F	23	380	44.8	129	1700	113.3	309	2.88	8	2500	247	89	137	0.281	3.11	6.25
215YS140-17F	25.6	380	43.6	144	1700	113.3	346	3.3	8	2300	240	75	145	0.289	3.61	7.1
215YS155-17F	27.8	380	53.3	156	1700	113.3	318	2.93	8	2500	302	110	160	0.223	2.85	5.62
215YS160-17F	28.8	380	48.5	162	1700	113.3	348	3.34	8	2300	300	95	168	0.241	3.13	6.17
215YS180-17F	31.3	380	61.5	176	1700	113.3	309	2.86	8	2500	370	138	187	0.181	2.31	4.56
215YS190-17F	33.5	380	58.2	188	1700	113.3	332	3.23	8	2300	365	115	195	0.196	2.5	4.93
215YS200-17F	36.5	380	70	205	1700	113.3	318	2.93	8	2500	425	157	213	0.158	2.06	4.12
215YS45-20F	9.4	380	16.6	45	2000	133.3	332	2.71	8	2600	88	34.5	62	0.981	6.72	13.26

215YS55-20F	11.3	380	21	54	2000	133.3	322	2.57	8	2600	88	36	62	0.836	6.65	12.85
215YS65-20F	13.6	380	24.8	65	2000	133.3	327	2.62	8	2600	104	44.5	73	0.623	5.43	10.73
215YS70-20F	14.6	380	24.1	70	2000	113.3	362	2.89	8	2500	113	47	81	0.663	6.27	12.4
215YS80-20F	17.4	380	31.6	82	2000	133.3	327	2.59	8	2600	145	62	87	0.457	4.31	8.65
215YS90-20F	19.2	380	32.6	92	2000	133.3	355	2.82	8	2500	158	64	95	0.396	4.3	8.46
215YS105-20F	21.8	380	38.3	104	2000	133.3	332	2.72	8	2600	194	80	112	0.305	3.45	6.8
215YS110-20F	23.4	380	39.8	112	2000	133.3	355	2.81	8	2500	204	83	120	0.292	3.4	6.75
215YS130-20F	26.8	380	51.3	128	2000	133.3	312	2.5	8	2600	248	110	137	0.205	2.35	4.75
215YS140-20F	28.7	380	49.8	137	2000	133.3	348	2.75	8	2500	260	100	145	0.212	2.65	5.25
215YS155-20F	32.5	380	60.9	155	2000	133.3	312	2.55	8	2600	310	140	160	0.161	1.97	4.02
215YS160-20F	33.3	380	58.9	159	2000	133.3	340	2.7	8	2500	315	133	168	0.168	2.17	4.29
215YS180-20F	36.4	380	66.8	174	2000	133.3	327	2.6	8	2600	360	154	187	0.148	1.85	3.75
215YS190-20F	38.7	380	66	185	2000	133.3	355	2.8	8	2500	370	150	195	0.151	2.02	4
215YS200-20F	40.8	380	74	195	2000	133.3	332	2.64	8	2600	400	185	213	0.131	1.65	3.52

测试条件

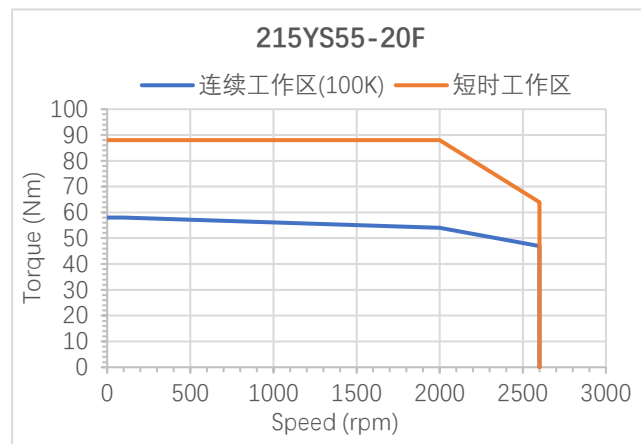
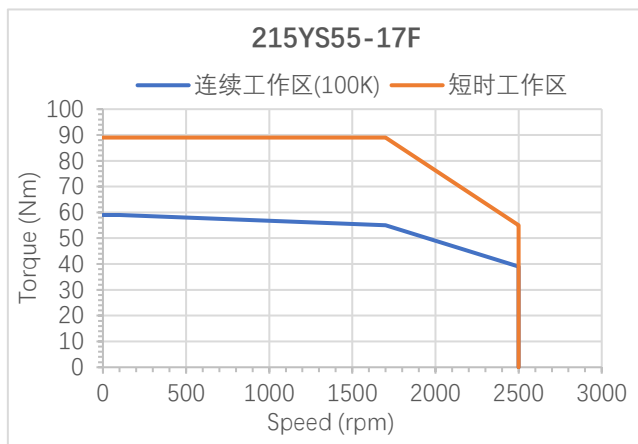
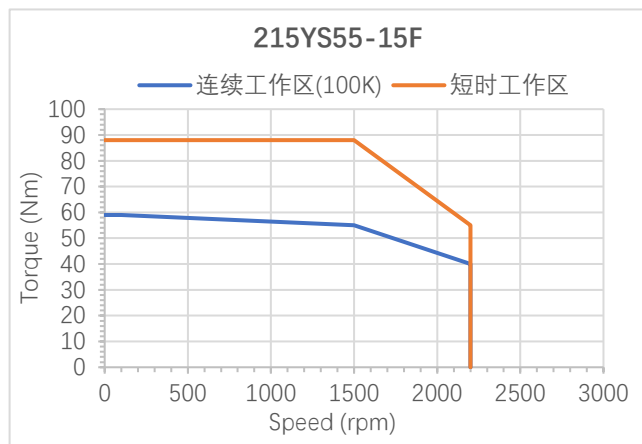
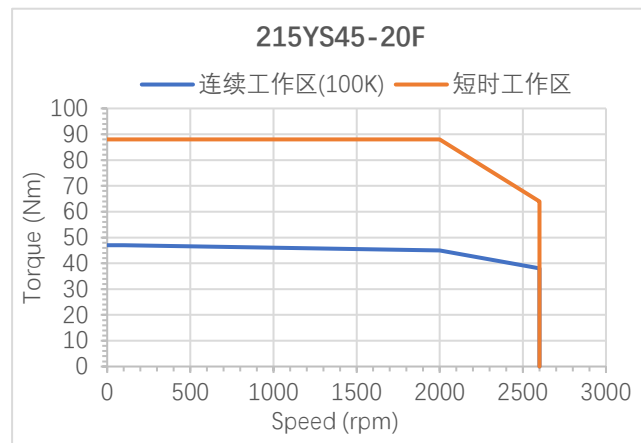
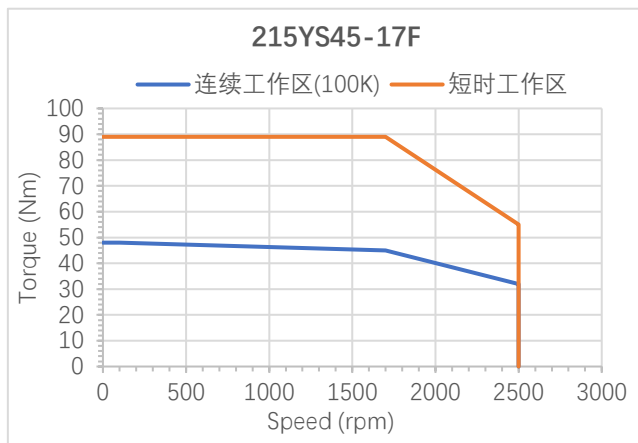
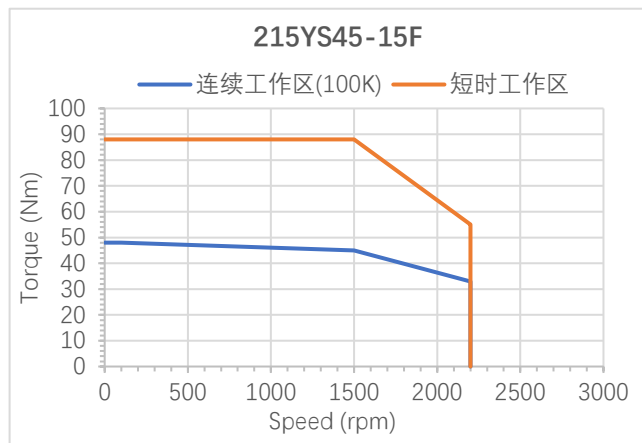
- 1) 电机水平置于自由静止空气，环温 25°C
- 2) 电机额定数据基于温升 100K
- 3) 温度传感器报警温度 130°C
- 4) 典型公差值±5%

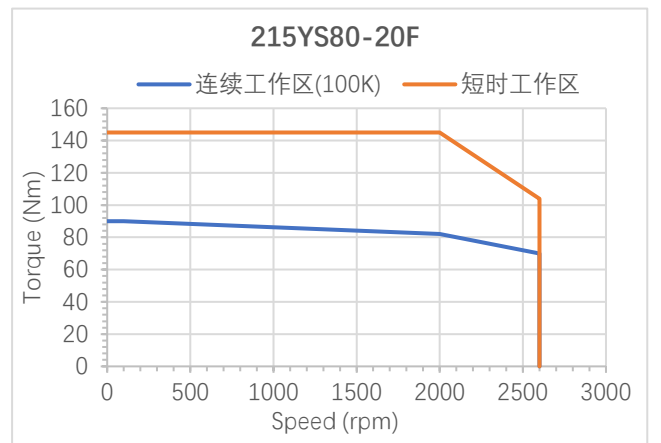
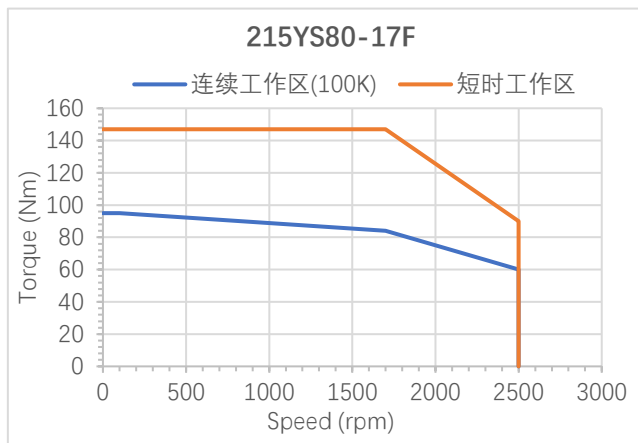
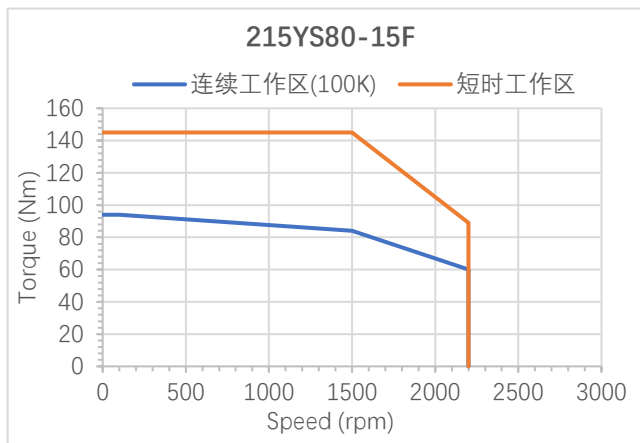
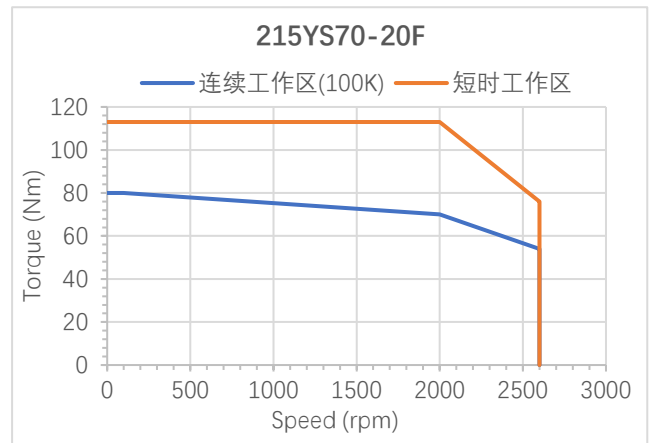
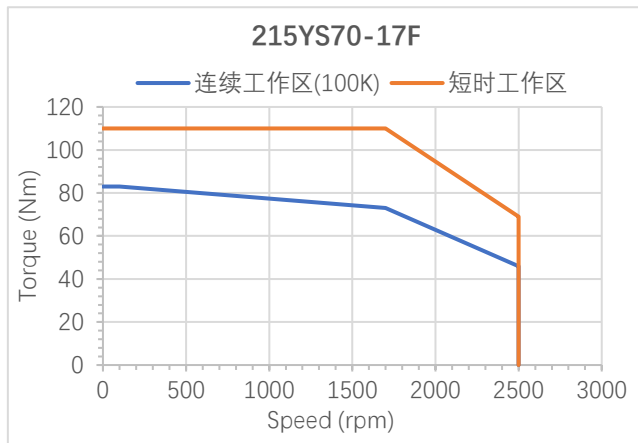
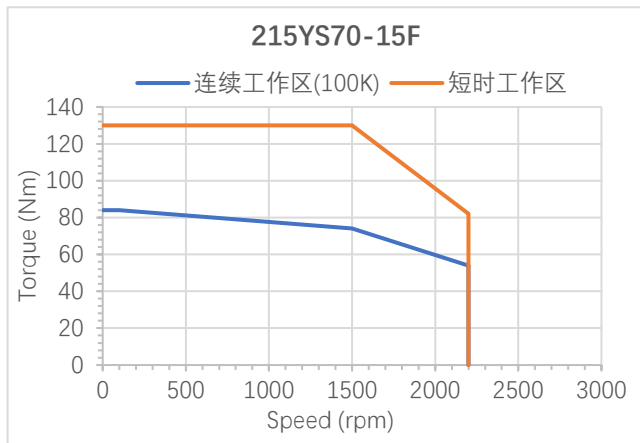
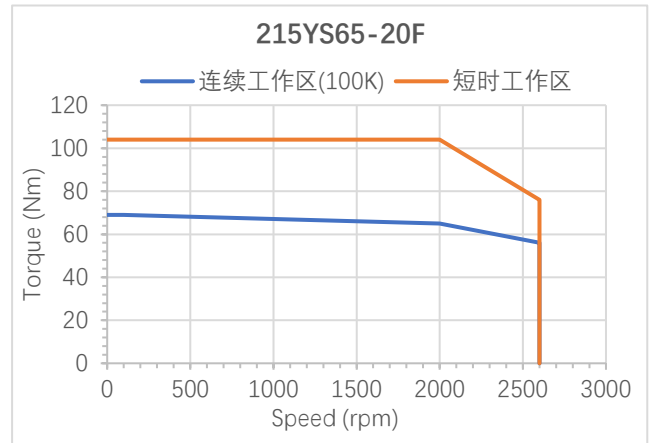
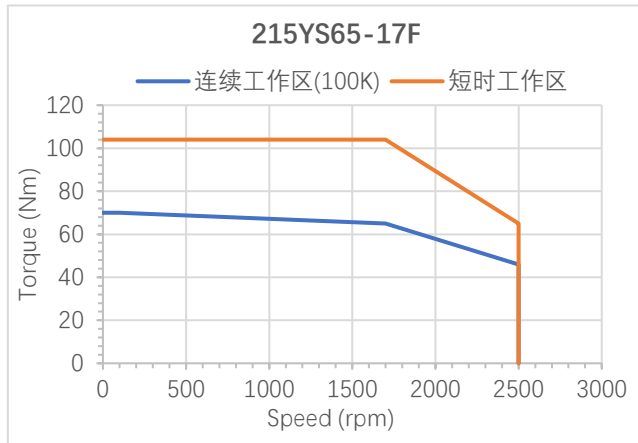
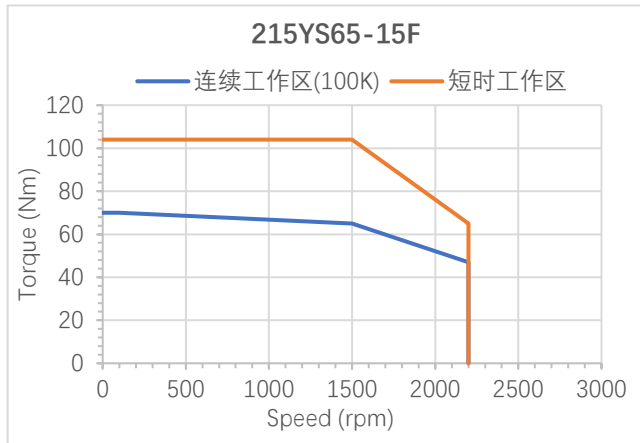
▲ 电机安装尺寸图

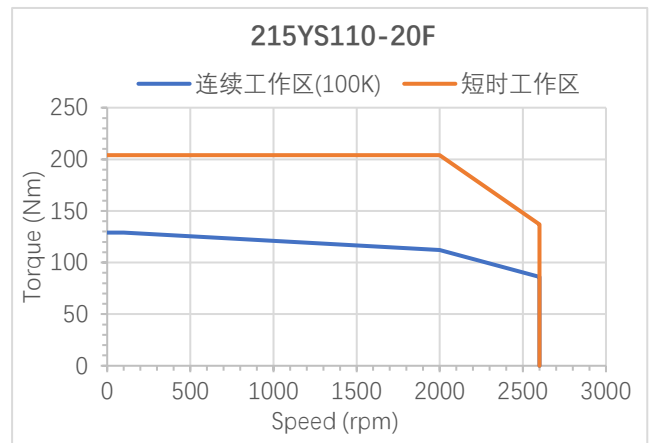
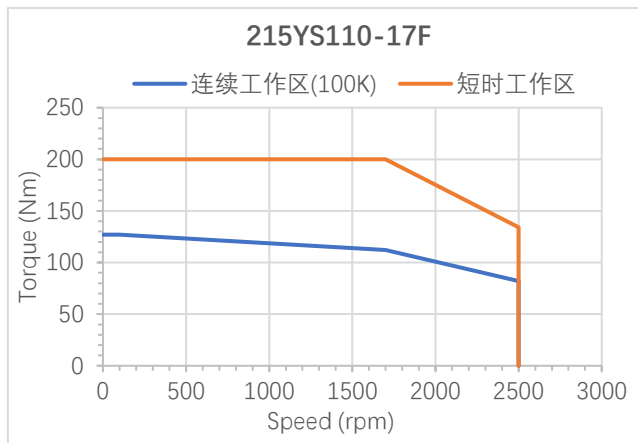
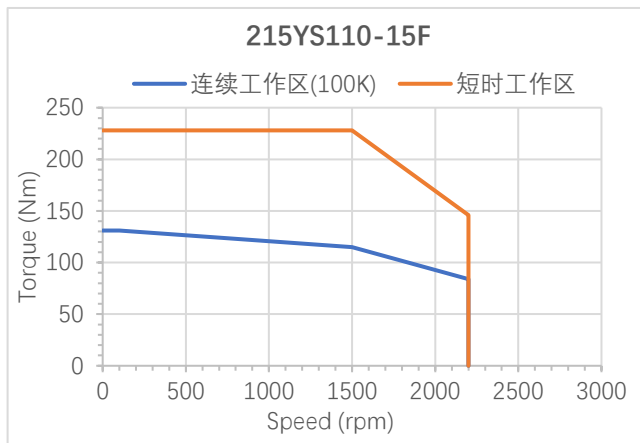
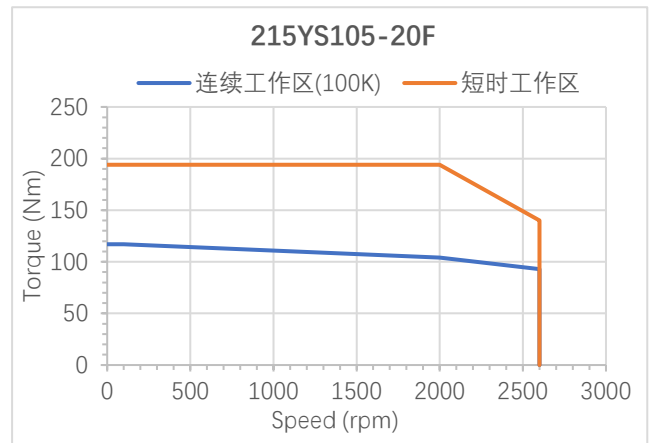
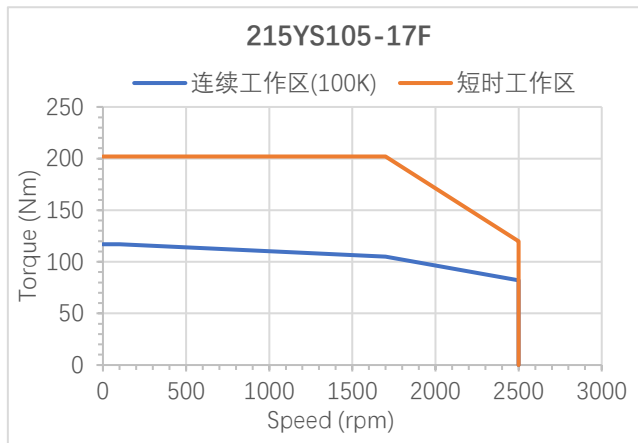
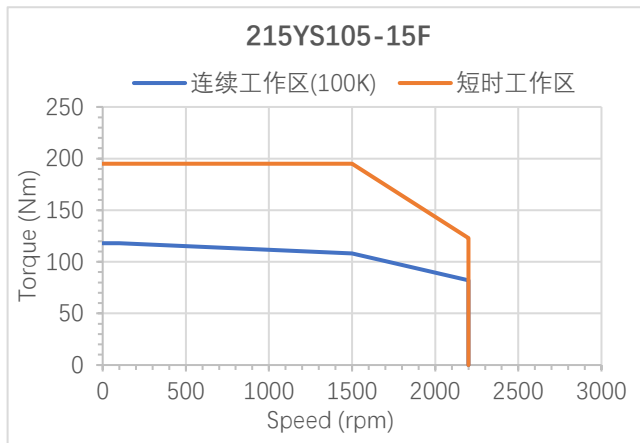
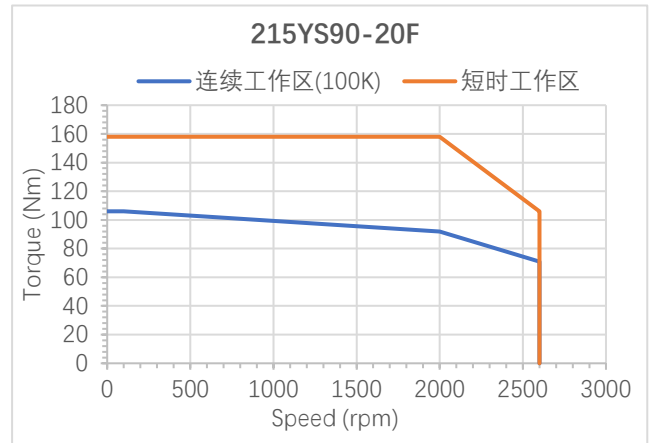
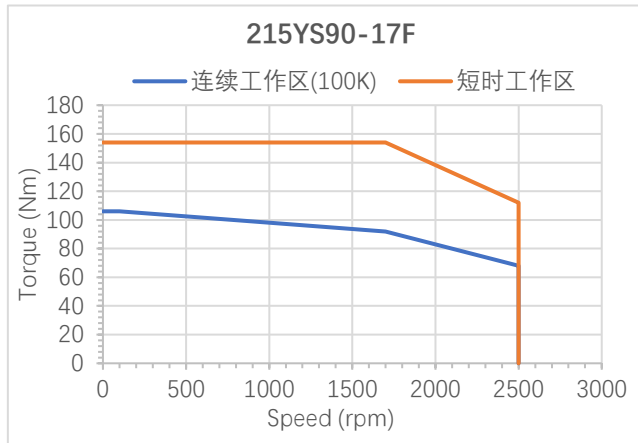
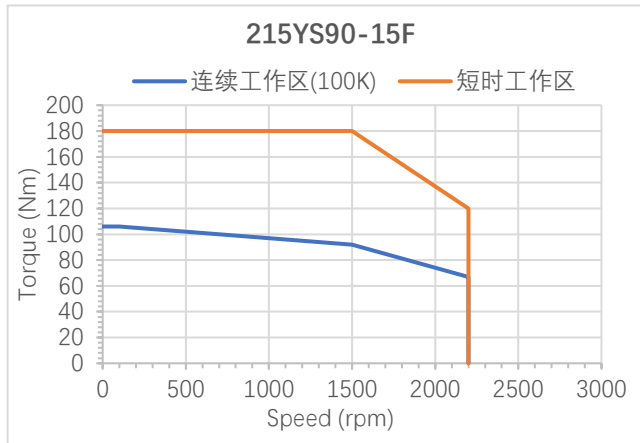


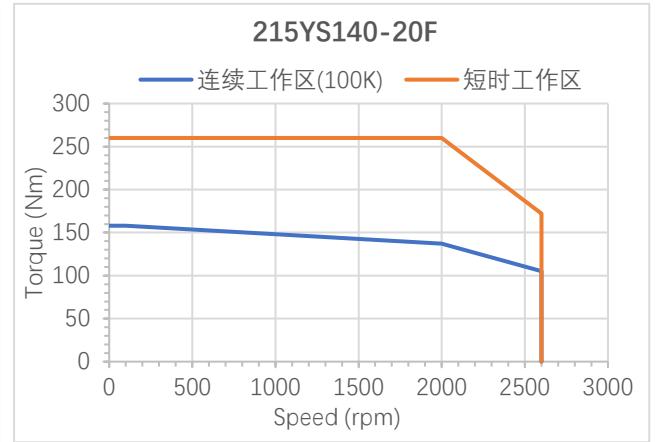
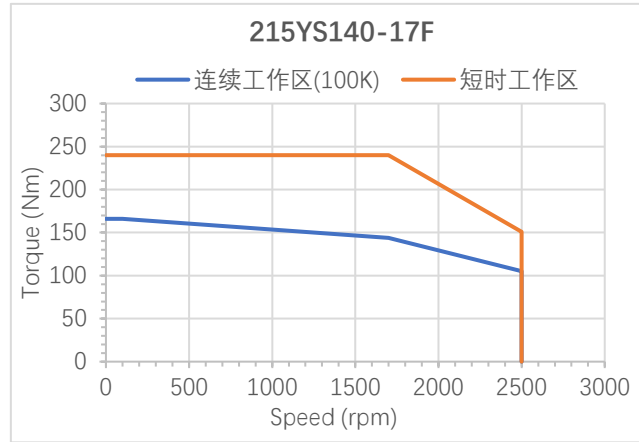
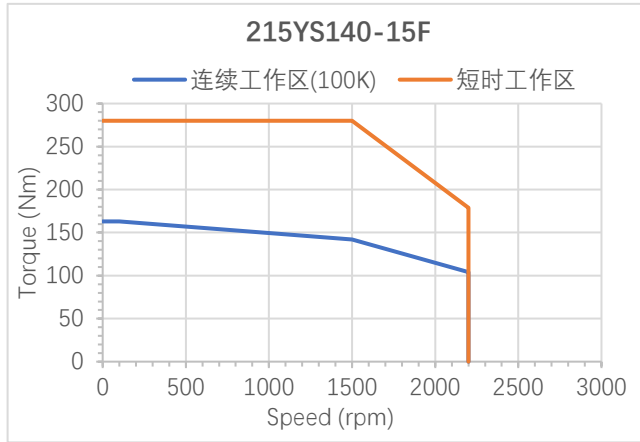
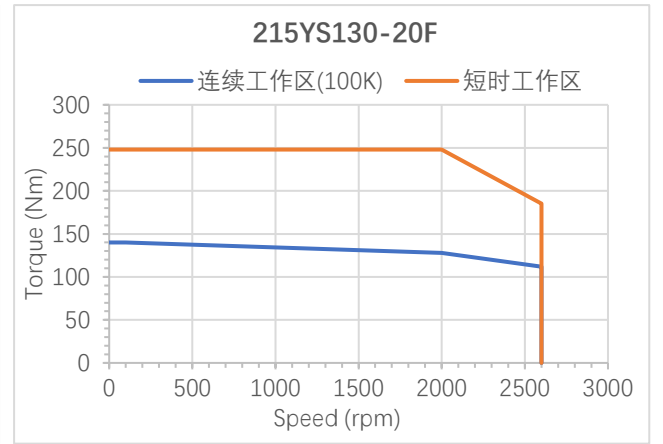
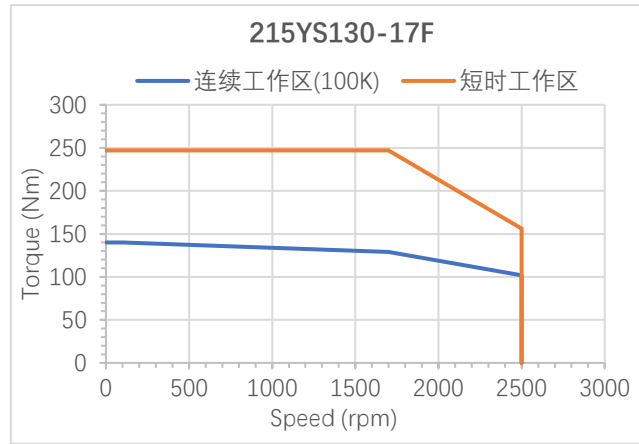
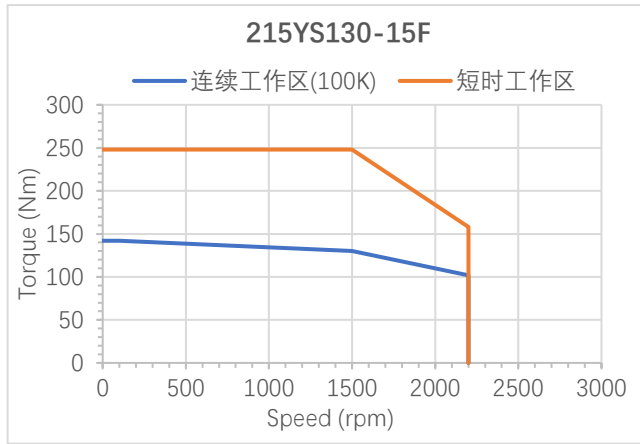
电机型号	215YS45/55	215YS65	215YS70/80	215YS90/105	215YS110/130	215YS140/155	215YS160/180	215YS190/200
A [mm]	345	361	381	417	453	489	525	575
B [mm]	265	265	285	310	350	395	430	470

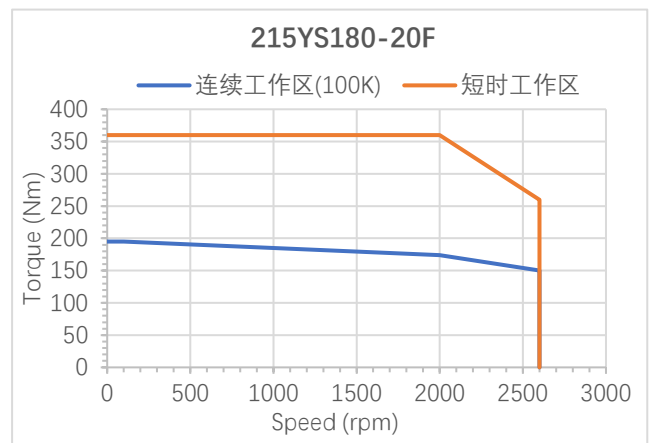
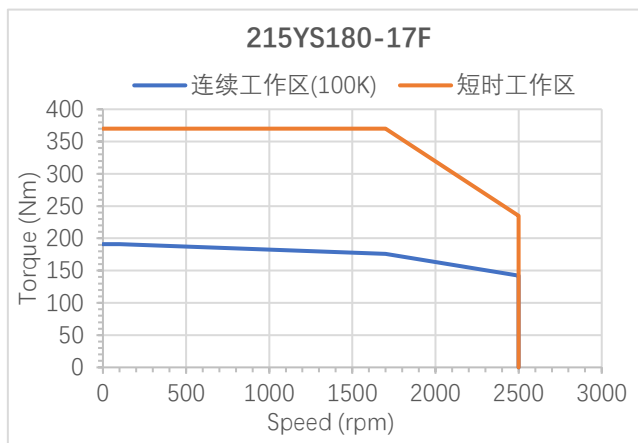
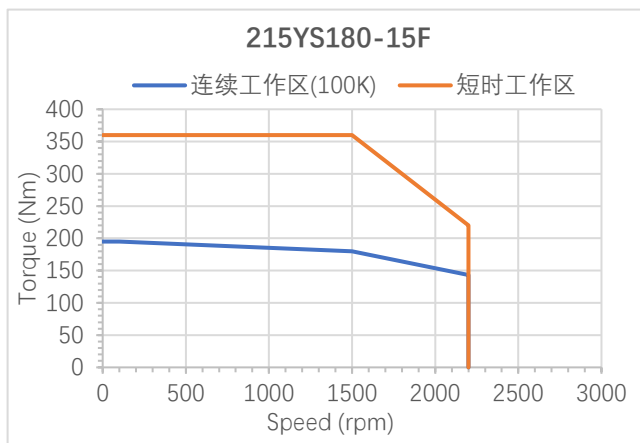
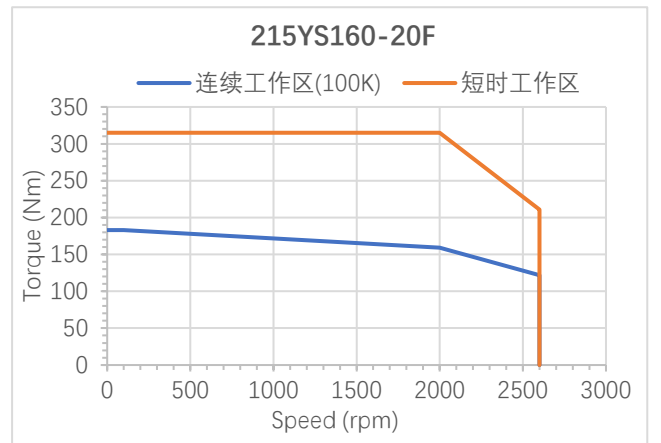
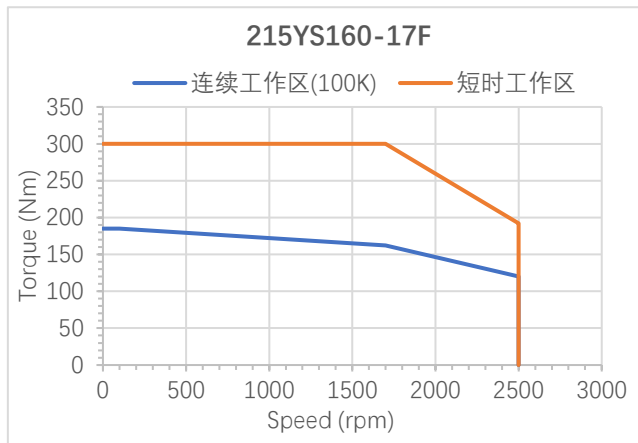
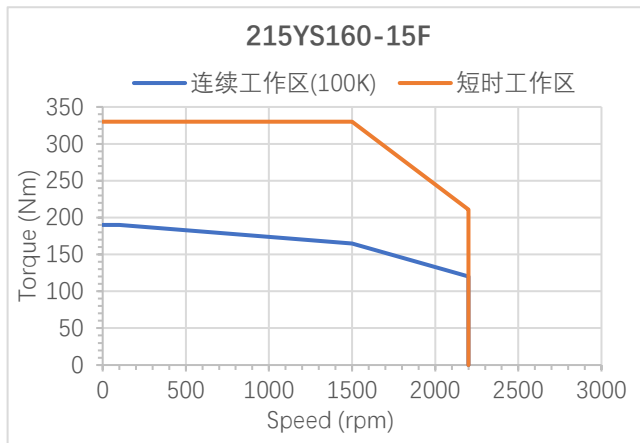
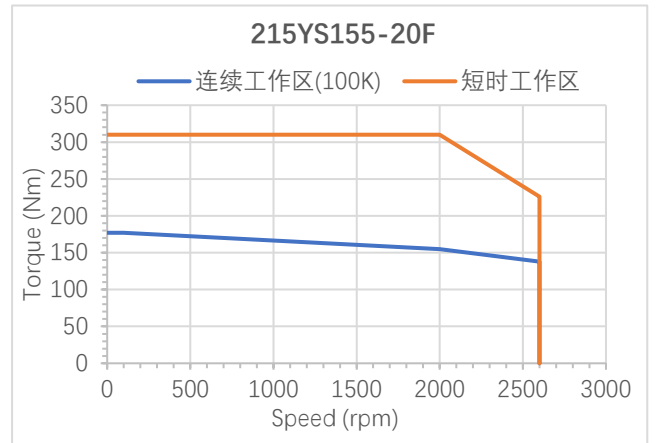
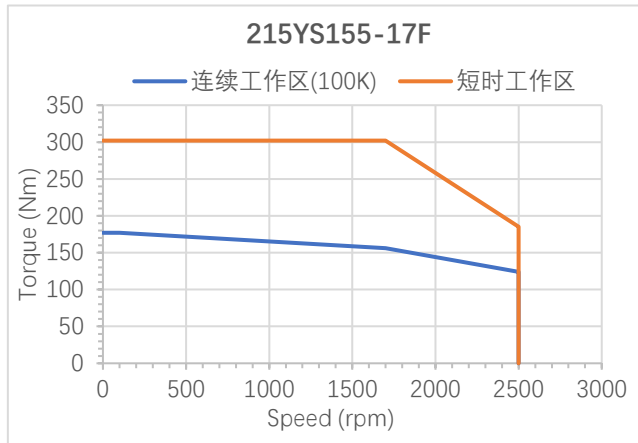
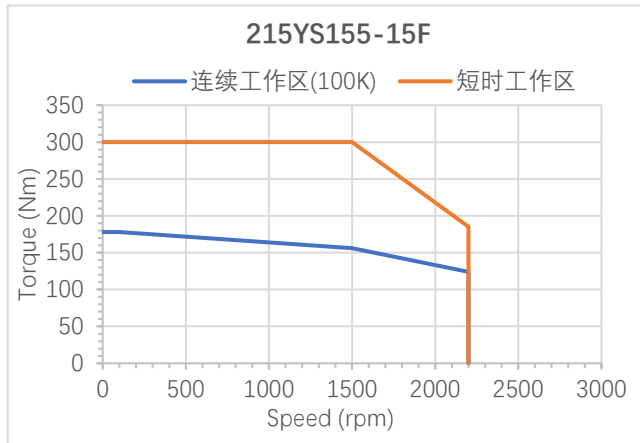
电机 TN 曲线

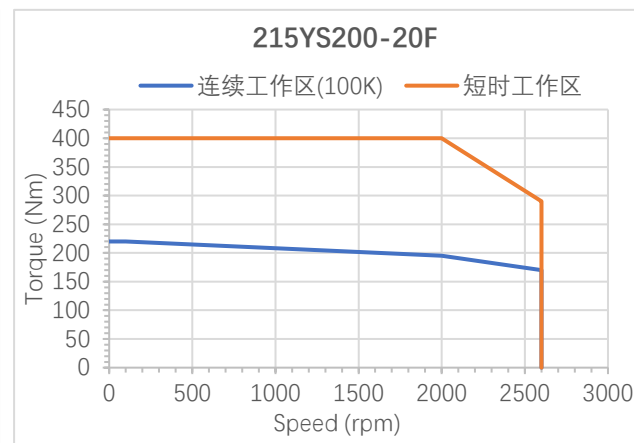
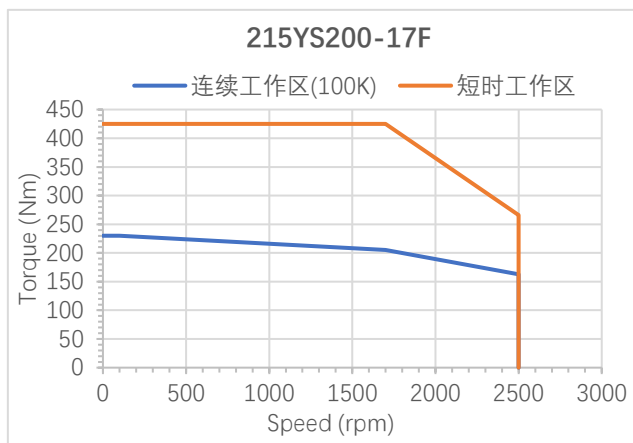
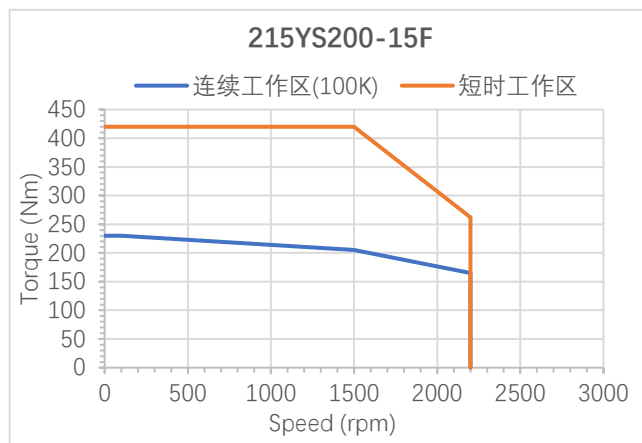
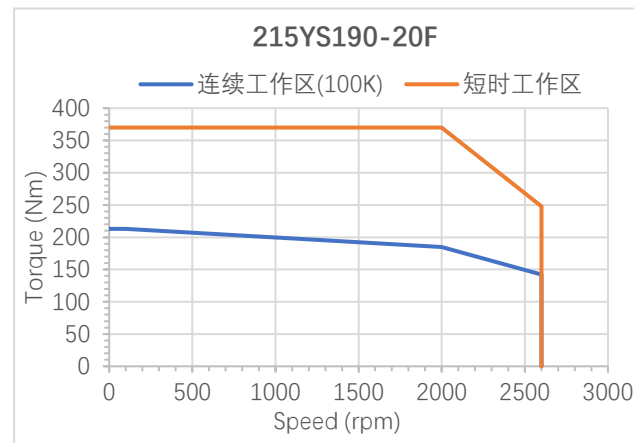
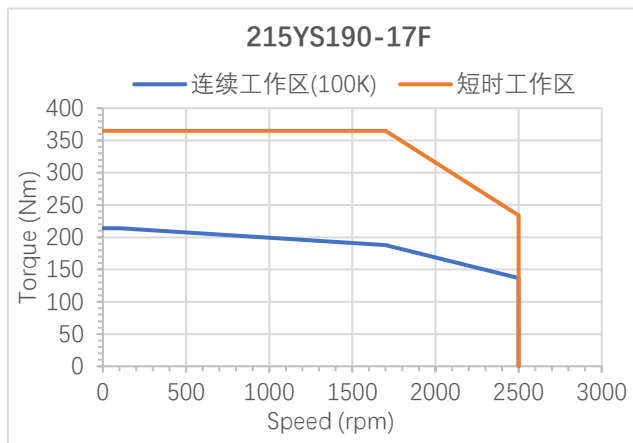
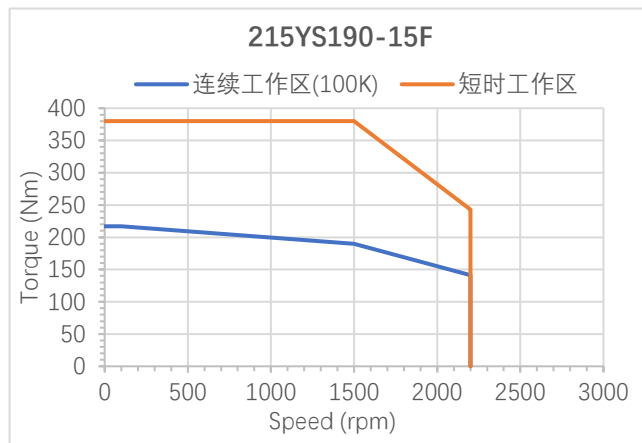












内嵌式高性能永磁伺服电机技术参数表 (300H 系列)

电机参数

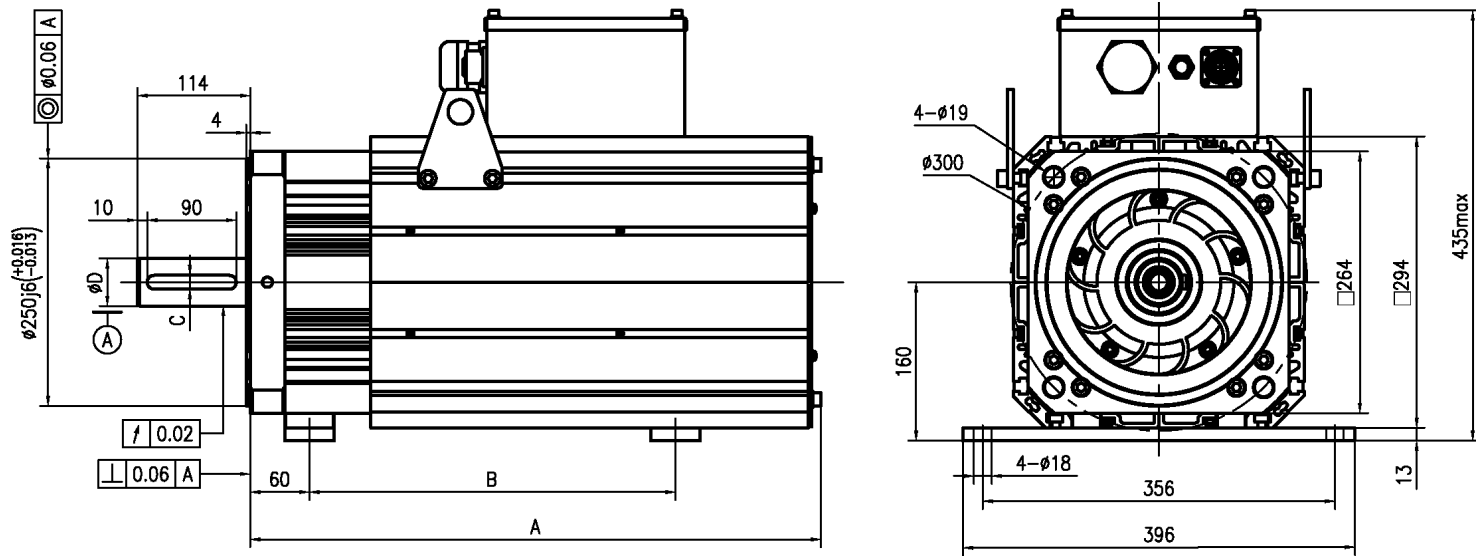
电机型号	额定功率 (kW)	额定电压 (V)	额定电流 (A)	额定转矩 (Nm)	额定转速 (rpm)	额定频率 (Hz)	反电势 (V)	Kt 热态	电机极数 2P	峰值转速 (rpm)	峰值扭矩 (Nm)	峰值电流 (A)	惯量 (kgcm ²)	线电阻 (Ω)	电感(Ld) (mH)	电感(Lq) (mH)
300HYS180-15F	29	380	55.5	185	1500	100	315	3.33	8	2200	290	94	320	0.181	3.62	7.25
300HYS225-15F	33.8	380	63	215	1500	100	328	3.41	8	2200	355	118	380	0.158	3.31	6.61
300HYS250-15F	39.2	380	73.3	250	1500	100	328	3.41	8	2200	400	130	440	0.126	2.84	5.68
300HYS300-15F	45.9	380	87	292	1500	100	312	3.36	8	2200	500	160	500	0.102	2.11	4.25

300HYS340-15F	53.4	380	100	340	1500	100	316	3.38	8	2200	520	170	560	0.0844	2.05	4.1
300HYS370-15F	58.1	380	110	370	1500	100	312	3.36	8	2200	605	200	630	0.0741	1.81	3.62
300HYS410-15F	63.6	380	115	405	1500	100	343	3.53	8	2200	590	190	690	0.0774	1.98	3.95
300HYS440-15F	67.4	380	126	429	1500	100	328	3.41	8	2200	670	220	720	0.0669	1.65	3.3
300HYS500-15F	77.3	380	146	492	1500	100	328	3.37	8	2200	780	270	815	0.0551	1.41	2.85
300HYS560-15F	85.6	380	166	545	1500	100	312	3.28	8	2200	910	310	905	0.0419	1.13	2.25
300HYS180-17F	32	380	61.4	180	1700	113.3	310	2.93	8	2500	290	110	320	0.1379	2.77	5.5
300HYS225-17F	38.8	380	74	218	1700	113.3	318	2.95	8	2500	360	131	380	0.117	2.35	4.9
300HYS250-17F	44	380	83.5	247	1700	113.3	312	2.96	8	2500	410	150	440	0.0899	1.97	3.95
300HYS300-17F	50.2	380	95	282	1700	113.3	318	2.97	8	2500	500	187	500	0.0852	1.65	3.35
300HYS340-17F	59.8	380	110	336	1700	113.3	318	3.05	8	2500	520	195	560	0.0667	1.62	3.24
300HYS370-17F	64.6	380	126	363	1700	113.3	310	2.88	8	2500	605	225	630	0.0562	1.32	2.65
300HYS410-17F	71.2	380	128	400	1700	113.3	314	3.12	8	2500	595	210	690	0.059	1.5	3
300HYS440-17F	76	380	146	427	1700	113.3	318	2.92	8	2500	675	255	720	0.0481	1.11	2.35
300HYS500-17F	86.3	380	168	485	1700	113.3	310	2.89	8	2500	790	300	815	0.0382	1.01	2.02
300HYS560-17F	96.1	380	183	540	1700	113.3	318	2.95	8	2500	910	343	905	0.0351	0.91	1.81
300HYS180-20F	36.8	380	68.7	176	2000	133.3	313	2.56	8	2600	290	123	320	0.1014	2.02	4.02
300HYS225-20F	43.4	380	81.5	207	2000	133.3	312	2.54	8	2600	365	160	380	0.0832	1.71	3.41
300HYS250-20F	50.8	380	91.6	243	2000	133.3	328	2.65	8	2600	400	170	440	0.0708	1.61	3.2
300HYS300-20F	58.6	380	104	280	2000	133.3	333	2.69	8	2600	490	205	500	0.0631	1.45	2.9
300HYS340-20F	69.1	380	125	330	2000	133.3	328	2.65	8	2600	520	210	560	0.0508	1.24	2.5
300HYS370-20F	75.4	380	143	360	2000	133.3	312	2.52	8	2600	605	255	630	0.0409	1.01	2.02
300HYS410-20F	82	380	140	392	2000	133.3	343	2.8	8	2500	595	243	690	0.0448	1.1	2.08
300HYS440-20F	88.6	380	167	423	2000	133.3	312	2.53	8	2600	680	300	720	0.0339	0.83	1.63
300HYS500-20F	101	380	181	482	2000	133.3	328	2.66	8	2600	780	338	815	0.0311	0.77	1.52
300HYS560-20F	111	380	203	530	2000	133.3	333	2.62	8	2600	900	380	905	0.0269	0.67	1.35

测试条件

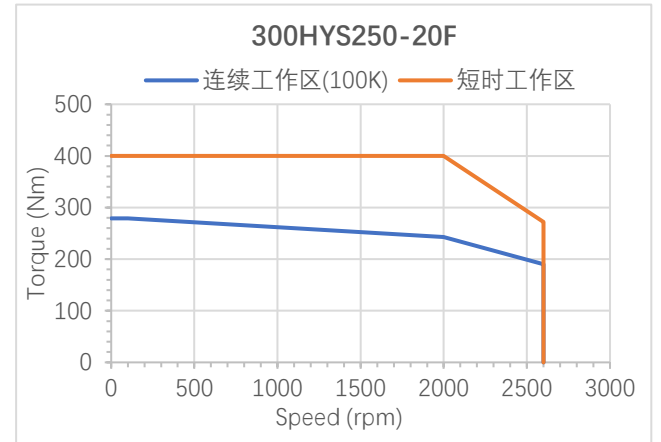
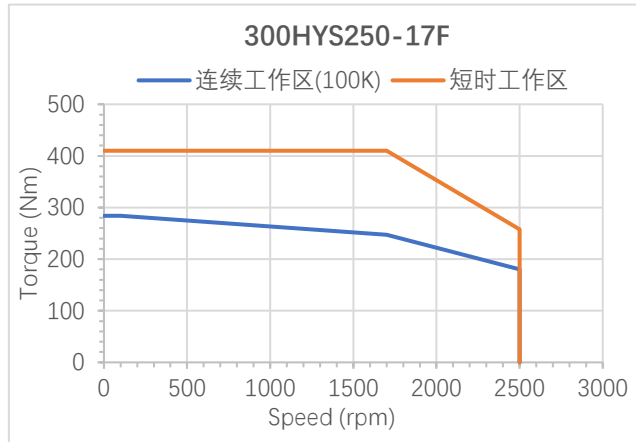
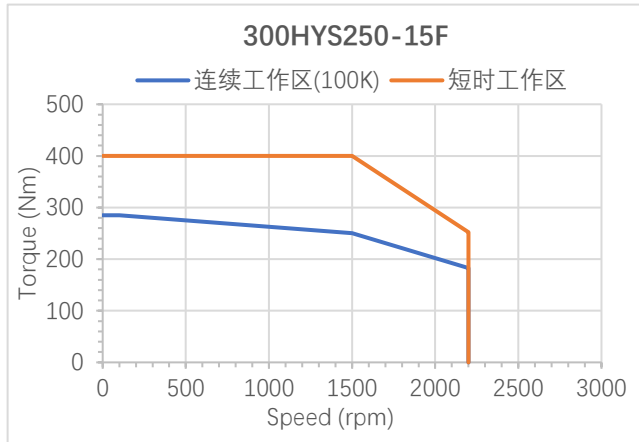
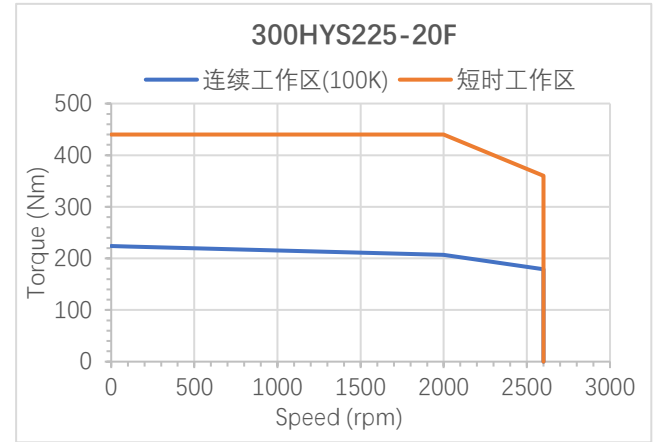
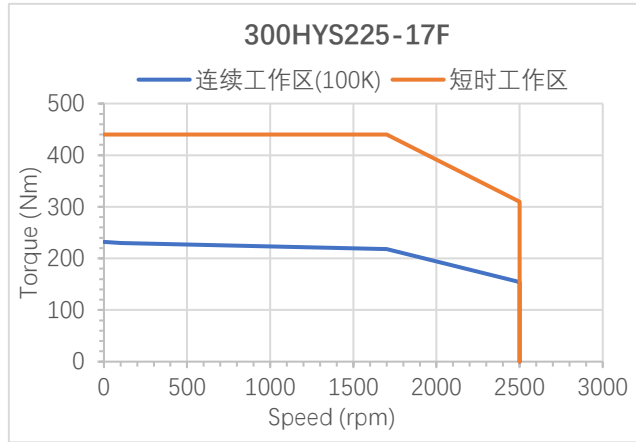
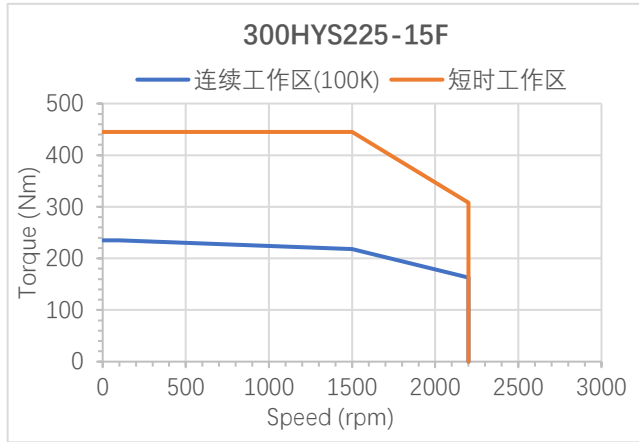
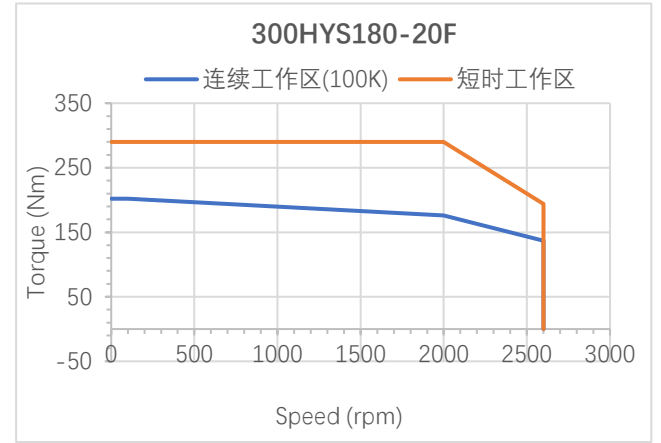
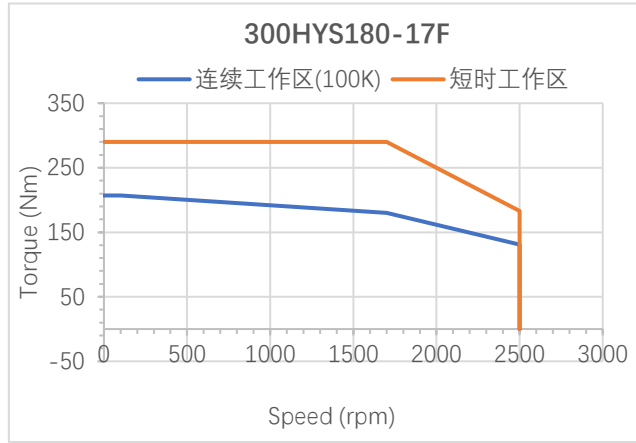
- 1) 电机水平置于自由静止空气, 环温 25°C
- 2) 温度传感器报警温度 130°C
- 3) 典型公差值±5%

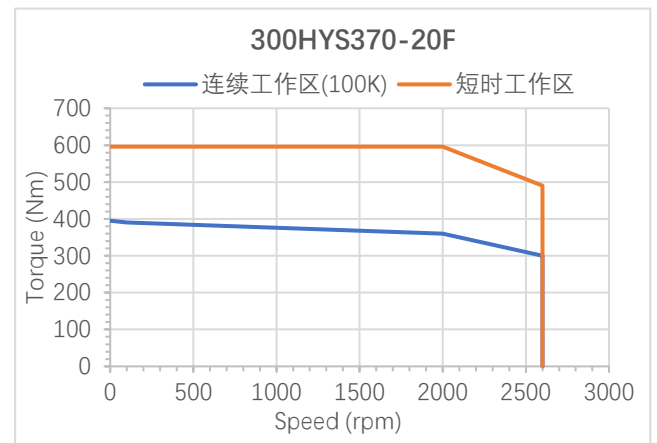
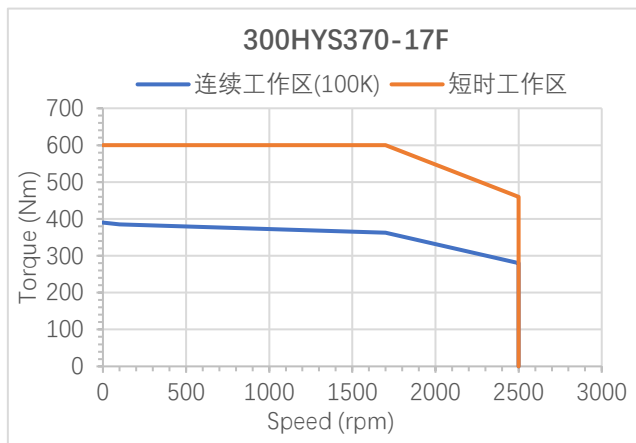
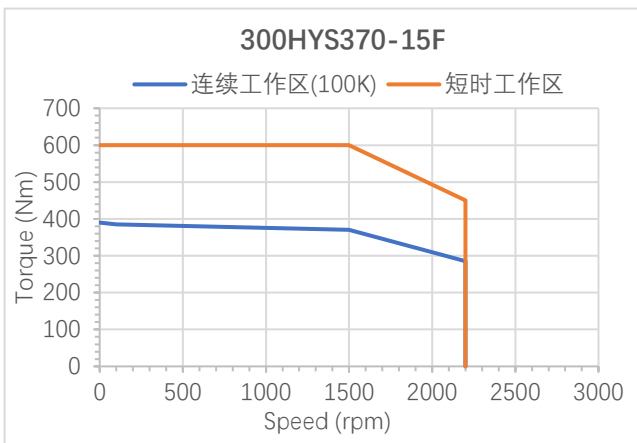
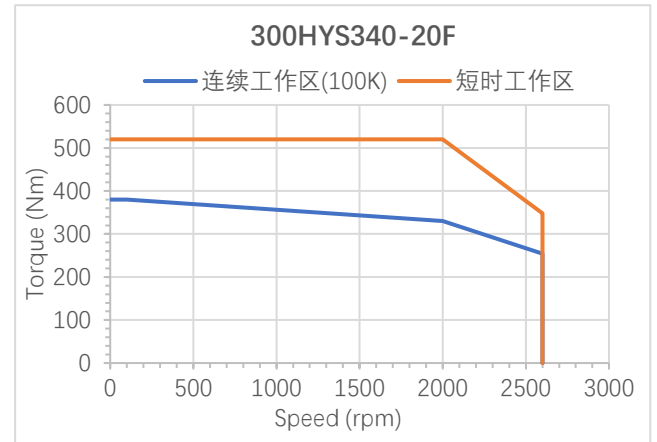
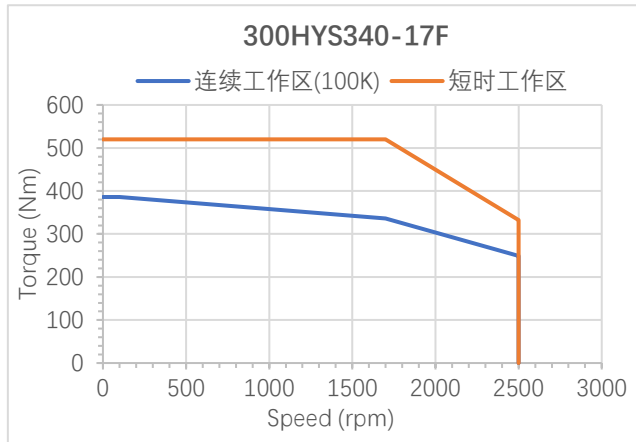
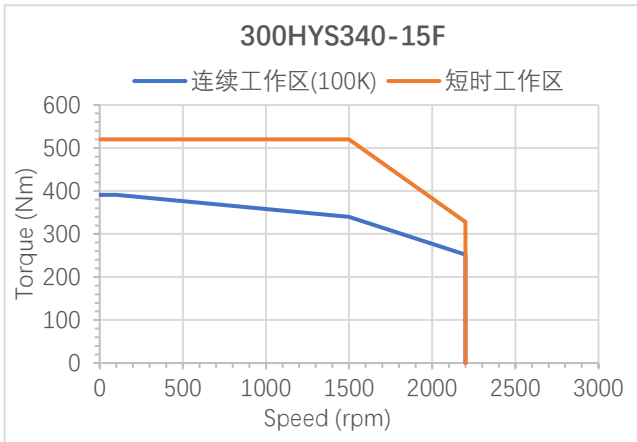
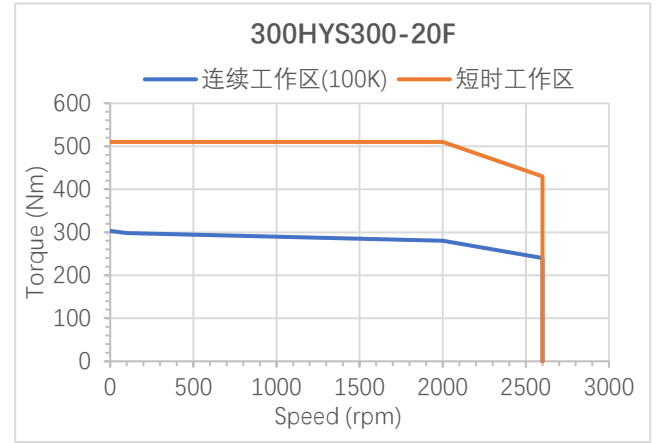
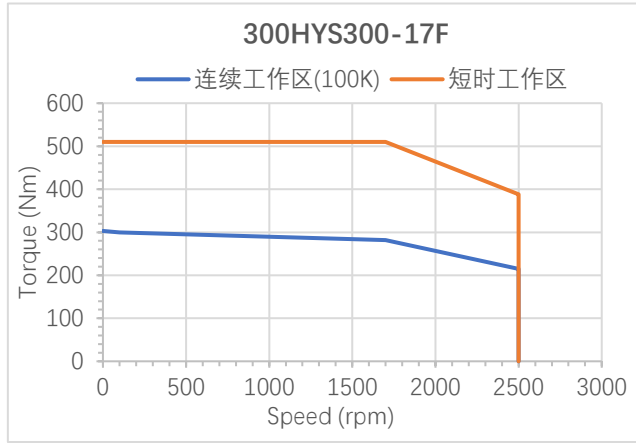
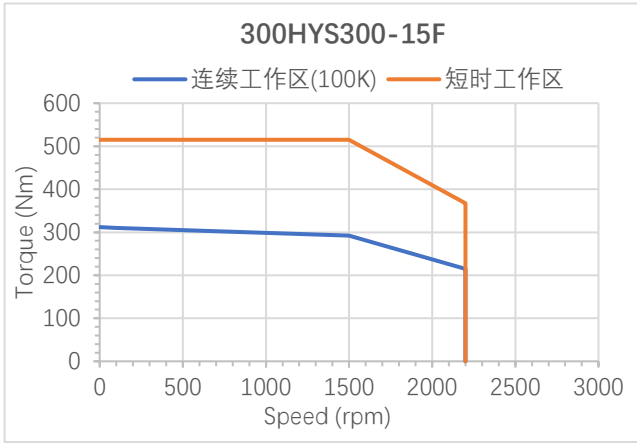
▲ 电机安装尺寸图

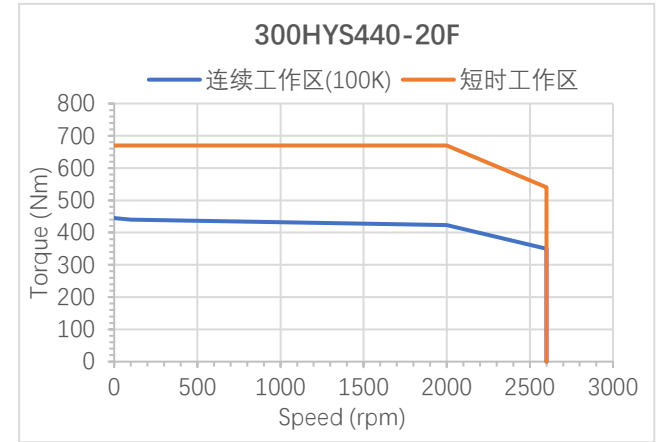
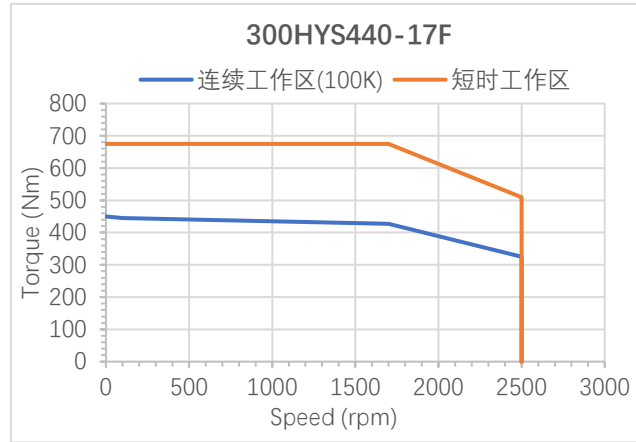
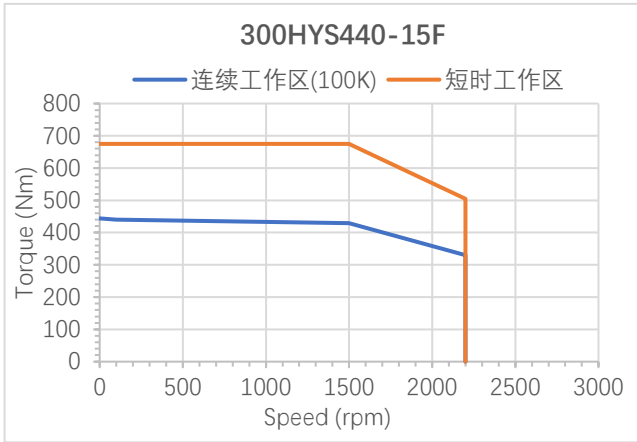
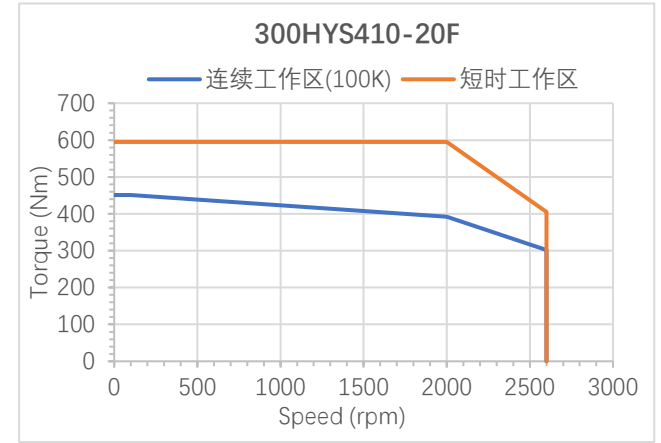
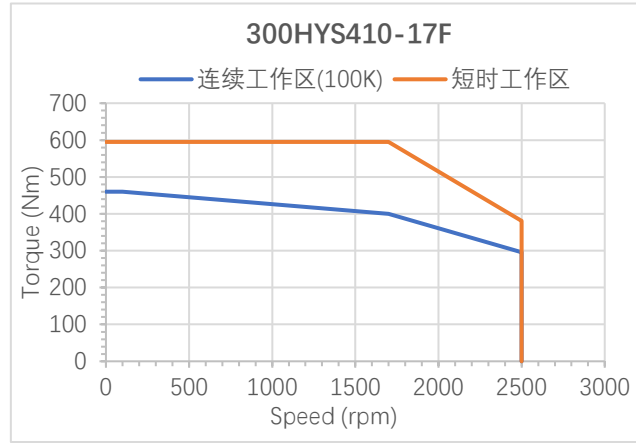
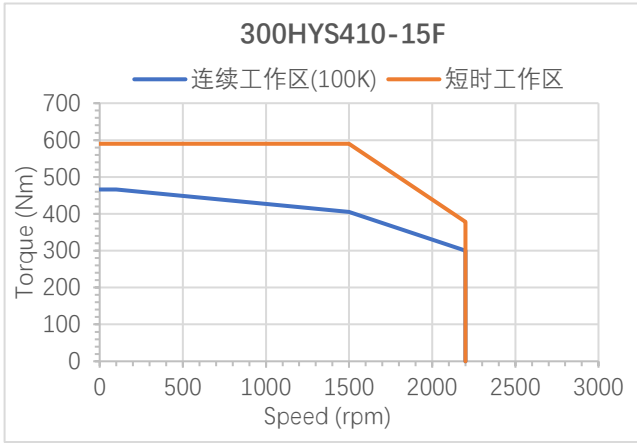


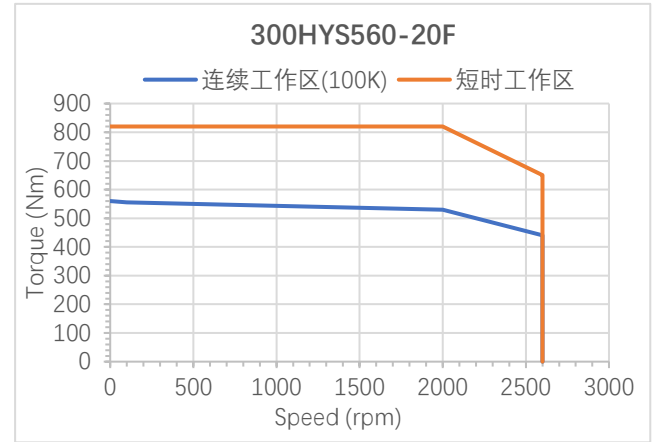
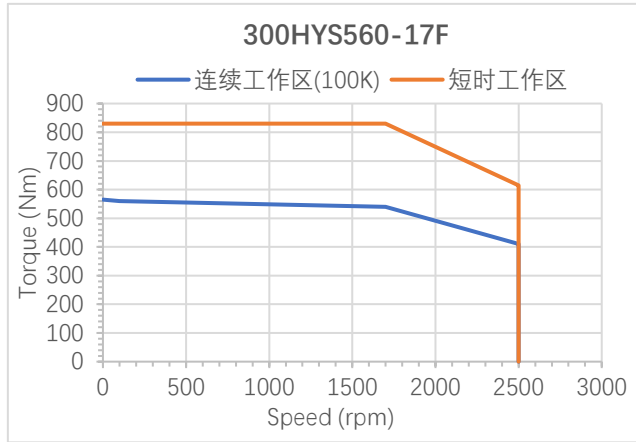
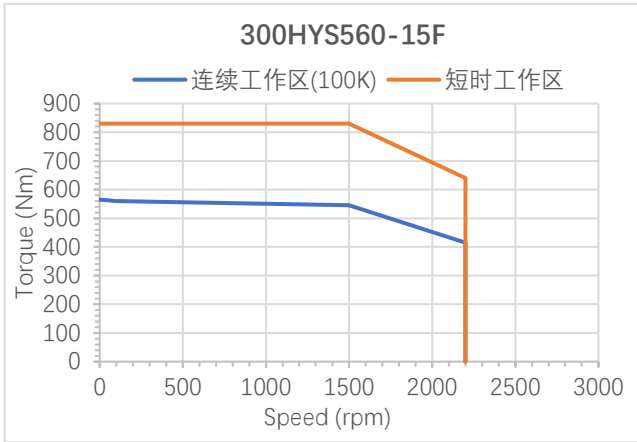
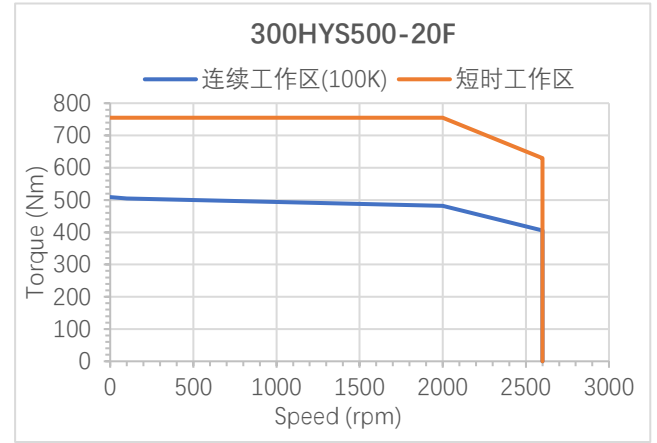
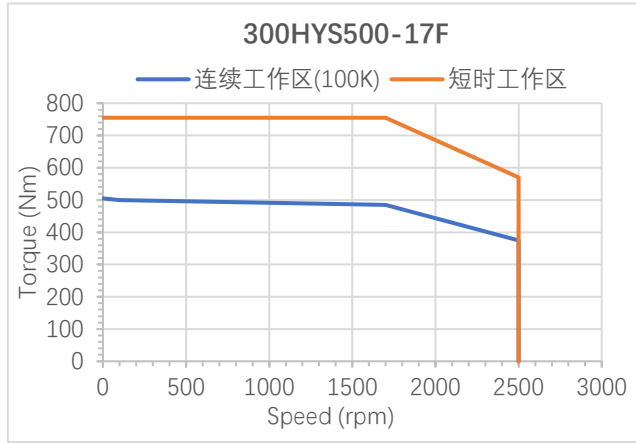
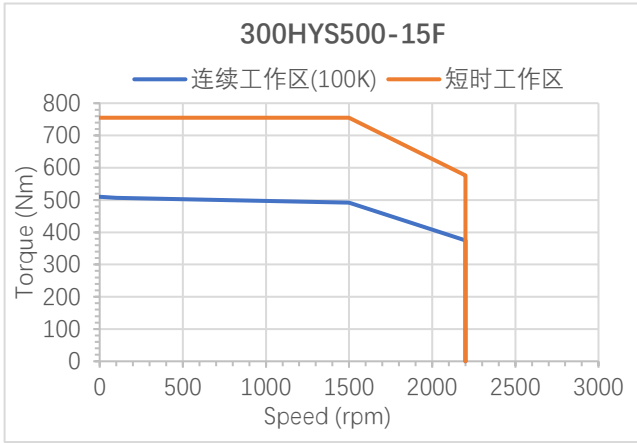
电机型号	300HYS180/225	300HYS250/300	300HYS340/370	300HYS410/440	300HYS500	300HYS560
A[mm]	523.5	577	630.5	684	757.5	811
B [mm]	365.5	419	472.5	526	599.5	653
C [mm]	$14_{-0.027}^0$	$14_{-0.027}^0$	$14_{-0.027}^0$	$14_{-0.027}^0$	$18_{-0.027}^0$	$18_{-0.027}^0$
D [mm]	$48_{-0.005}^{+0.011}$	$48_{-0.005}^{+0.011}$	$48_{-0.005}^{+0.011}$	$48_{-0.005}^{+0.011}$	$60_{+0.011}^{+0.03}$	$60_{+0.011}^{+0.03}$

▲ 电机 TN 曲线









内嵌式高性能永磁伺服电机技术参数表 (400 系列)

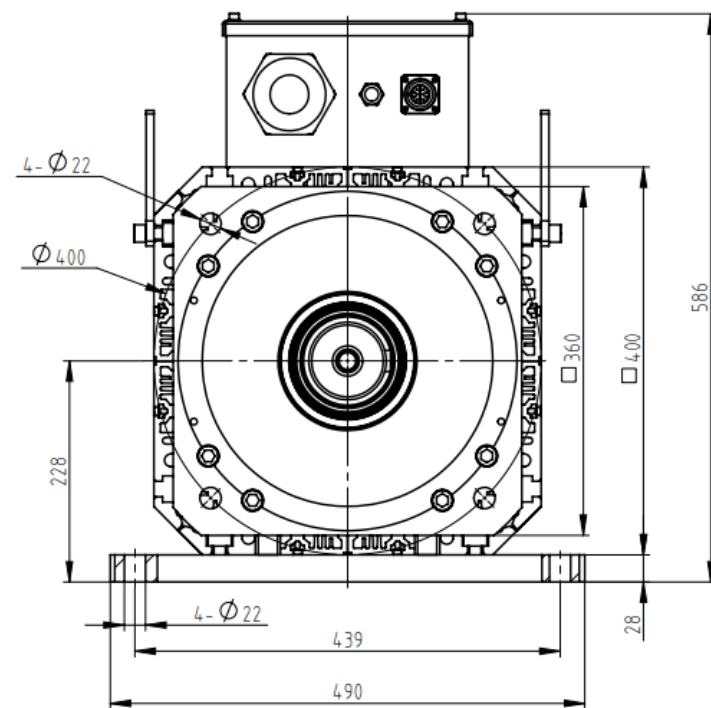
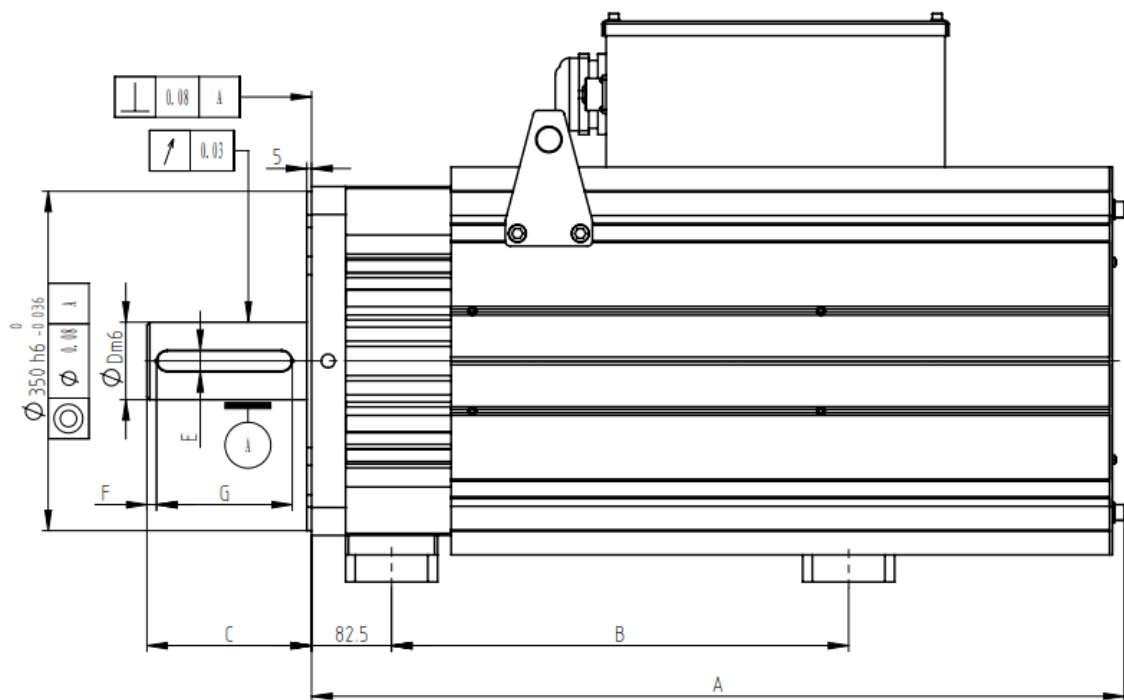
▲ 电机参数

电机型号	额定功率 (kW)	额定电压 (V)	额定电流 (A)	额定转矩 (Nm)	额定转速 (rpm)	额定频率 (Hz)	反电势 (V)	Kt 热态	电机极数 2P	峰值转速 (rpm)	峰值转矩 (Nm)	峰值电流 (A)	惯量 (kgcm ²)	线电阻 (Ω)	电感(Ld) (mH)	电感(Lq) (mH)
400YS480-10F	52	380	88	495	1000	100	367	5.63	12	1300	740	150	4095	0.092	1.06	2.54
400YS630-10F	68	380	115	649	1000	100	366	5.65	12	1300	980	195	5346	0.063	0.8	1.9
400YS760-10F	81	380	138	777	1000	100	366	5.64	12	1300	1150	240	6559	0.048	0.63	1.52
400YS880-10F	94	380	160	900	1000	100	365	5.63	12	1300	1400	285	7769	0.038	0.53	1.26
400YS1020-10F	109	380	195	1040	1000	100	341	5.34	12	1300	1680	360	9013	0.028	0.39	0.94
400YS480-15F	76.2	380	140	485	1500	150	331	3.45	12	2100	850	285	4095	0.033	0.38	0.91
400YS630-15F	100	380	185	636	1500	150	330	3.44	12	2100	1100	365	5346	0.024	0.28	0.68
400YS760-15F	120	380	227	762	1500	150	320	3.35	12	2100	1350	465	6559	0.016	0.21	0.52
400YS880-15F	139	380	258	885	1500	150	329	3.43	12	2100	1600	540	7769	0.014	0.19	0.45
400YS1020-15F	160	380	306	1020	1500	150	319	3.33	12	2100	1850	650	9013	0.012	0.15	0.36
400YS480-17F	85.4	380	165	480	1700	170	312	2.92	12	2400	890	350	4095	0.023	0.26	0.64
400YS630-17F	112	380	206	630	1700	170	332	3.05	12	2400	1150	440	5346	0.018	0.22	0.54
400YS760-17F	135	380	262	760	1700	170	311	2.9	12	2400	1400	545	6559	0.012	0.16	0.38
400YS880-17F	157	380	303	880	1700	170	310	2.9	12	2400	1650	660	7769	0.009	0.13	0.32
400YS1020-17F	180	380	370	1010	1700	170	290	2.73	12	2400	1900	810	9013	0.007	0.098	0.23
400YS480-20F	99.5	380	180	475	2000	200	331	2.64	12	2600	870	380	4095	0.019	0.21	0.52
400YS630-20F	130	380	229	622	2000	200	342	2.72	12	2600	1050	450	5346	0.014	0.17	0.41
400YS760-20F	157	380	310	750	2000	200	305	2.42	12	2600	1450	680	6559	0.008	0.11	0.26
400YS880-20F	181	380	370	865	2000	200	292	2.34	12	2600	1700	850	7769	0.003	0.084	0.20
400YS1020-20F	207	380	365	990	2000	200	341	2.71	12	2600	1800	800	9013	0.007	0.098	0.24

测试条件

- 1) 电机水平置于自由静止空气，环温 25°C
- 2) 温度传感器报警温度 130°C
- 3) 典型公差值±5%

▲ 电机安装尺寸图



电机型号	400YS480	400YS630	400YS760	400YS880	400YS1020
A[mm]	719	779	839	899	959
B [mm]	348	412	472	532	592
C [mm]	140	170	170	170	170
D [mm]	$60^{+0.03}_{+0.011}$	$80^{+0.03}_{+0.011}$	$80^{+0.03}_{+0.011}$	$80^{+0.03}_{+0.011}$	$90^{+0.035}_{+0.013}$
E [mm]	$18^0_{-0.027}$	$22^0_{-0.033}$	$22^0_{-0.033}$	$22^0_{-0.033}$	$25^0_{-0.033}$
F [mm]	6	10	10	10	10
G [mm]	125	140	140	140	140

电机 TN 曲线

