

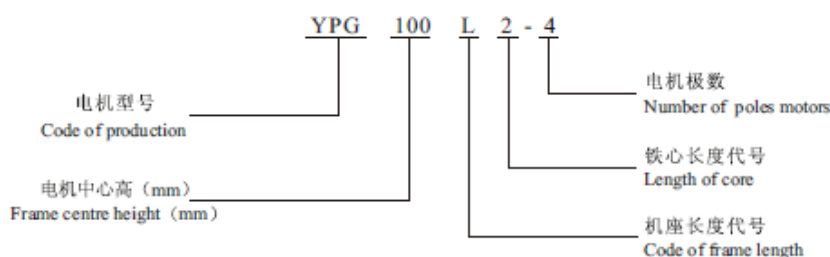
YPG系列变频调速辊道三相异步电动机

YPG series VVVF adjustable speed roller three-phase induction motors

一、概述 General

YPG系列变频调速辊道三相异步电动机是本公司结合变频电机与辊道电机的优点而最新推出的高性能电机产品，其结构按照国际最新的设计思路执行，具有过载能力大、机械强度高、调速范围广、通用性强等优点，既适用于连续运转传送工作装置，也适用于频繁起制动和正反转调速的恶劣工况场合。可广泛应用于冶金、化工、建筑、水利、电力、港口、轻工、造纸等行业。

二、型号说明 Type Designation



三、主要技术性能 Main technical performance

YPG系列三相异步电动机安装尺寸符合IEC标准，其安装尺寸与Y2系列三相异步电动机完全相同。主要性能如下：

- 1、额定电压380V，额定频率50Hz，也可根据需要确定电压和频率；
- 2、电动机变频范围1~100Hz。1~50Hz为恒转矩调速，50~100Hz为恒功率调速。也适用于不变频场合或按用户要求确定变频范围。
- 3、电动机可在S1~S9工作制运行。数据表中功率为S1连续工作制下的数据，仅供用户选型时参考；

四、结构及安装型式 Structure and mounting positions

YPG系列三相异步电动机有三种结构及安装形式：

- B3：机座带底脚，端盖无凸缘
- B5：机座不带底脚，端盖有凸缘
- B35：机座带底脚，端盖有凸缘

YPG series motor has three type structures:

- B3: Foot mounting without flange;
- B5: Flange mounting without foot;
- B35: Foot and flange mounting.

五、技术数据 Technical Data Table

表1 4极电动机技术数据 Table 1 4-electrode motor technical data

型 号 Type	标称功率 Normal power kw	额定电流 Rated current A	额定转速 Rated speed r/min	额定转矩 Rated torque N·m	起 动 转 矩 Blocked torque 额定转矩 Rated torque (1Hz)	最大转矩 Max. torque 额定转矩 Rated torque (50Hz)	转动惯量 Moment of inertia kg·m ²
YPG80M1-4	0.25	0.8	1420	1.7	≥1.3	4.0	0.0018
YPG80M2-4	0.37	1.1	1420	2.5		4.0	0.0021
YPG90S-4	0.55	1.5	1430	3.7		4.0	0.003
YPG90L-4	0.75	2.0	1430	5.0		4.0	0.004
YPG100L1-4	1.1	2.6	1440	7.3		3.8	0.008
YPG100L2-4	1.5	3.2	1440	10.0		3.8	0.010
YPG112M-4	2.2	4.5	1450	14.5		3.8	0.016
YPG132S-4	3.0	6.0	1450	19.8		3.7	0.028
YPG132M-4	4.0	8.0	1450	26.4		3.7	0.038
YPG160M-4	5.5	11.5	1465	35.9		3.7	0.085
YPG160L-4	7.5	15.2	1465	48.9		3.7	0.105
YPG180M-4	11	20.5	1465	71.7		3.7	0.148
YPG180L-4	15	28.5	1465	97.8		3.8	0.172
YPG200L1-4	18.5	34.5	1465	120		3.8	0.248
YPG200L2-4	22	41.5	1465	143		3.8	0.282
YPG225M-4	30	55	1470	195		3.8	0.523
YPG250M-4	37	68	1470	240		3.8	0.733
YPG280S-4	45	82	1475	291		3.5	1.383
YPG280M-4	55	98	1475	356		3.5	1.768
YPG315S-4	75	131	1480	484		3.5	2.610
YPG315M-4	90	156	1480	581		3.5	3.458
YPG315L1-4	110	190	1480	710		3.5	3.905
YPG315L2-4	132	225	1485	849		3.5	4.613
YPG355M1-4	160	278	1485	1029		3.5	6.015
YPG355M2-4	200	350	1490	1282		3.5	6.822
YPG355L-4	250	440	1490	1602		3.5	7.445

表2 6极电动机技术数据 Table 2 6-electrode motor technical data

型 号 Type	标称功率 Normal power kw	额定电流 Rated current A	额定转速 Rated speed r/min	额定转矩 Rated torque N·m	起 动 转 矩 Blocked torque 额定转矩 Rated torque (1Hz)	最大转矩 Max. torque 额定转矩 Rated torque (50Hz)	转动惯量 Moment of inertia kg·m ²
YPG80M1-6	0.18	0.7	930	1.9	≥1.3	3.8	0.002
YPG80M2-6	0.25	0.9	930	2.6		3.8	0.0025
YPG90S-6	0.37	1.2	940	3.7		3.8	0.0031
YPG90L-6	0.55	1.7	940	5.6		3.8	0.004
YPG100L-6	0.75	2.1	950	7.5		3.7	0.008
YPG112M-6	1.1	2.8	960	10.9		3.7	0.0185
YPG132S-6	1.5	3.5	960	15		3.6	0.0375
YPG132M1-6	2.2	5.0	960	22		3.6	0.0475
YPG132M2-6	3.0	6.5	960	29.8		3.5	0.0575
YPG160M-6	4.0	8.7	970	39.4		3.5	0.0875
YPG160L1-6	5.5	11.8	970	54.1		3.5	0.1025
YPG160L2-6	7.5	15.5	970	73.8		3.5	0.1225
YPG180L-6	11	21.5	975	107		3.6	0.285
YPG200L1-6	15	29	975	147		3.6	0.38
YPG200L2-6	18.5	35	975	181		3.6	0.43
YPG225M-6	22	42	975	215		3.6	0.695
YPG250M-6	30	55.5	975	294		3.5	1.015
YPG280S-6	37	69	980	360		3.3	1.65
YPG280M-6	45	83	980	438		3.3	1.95
YPG315S-6	55	99.5	980	536		3.4	3.225
YPG315M-6	75	136	985	727		3.4	4.725
YPG315L1-6	90	163	985	872		3.4	5.3
YPG315L2-6	110	199	985	1006		3.5	5.9
YPG355M1-6	132	237	990	1273		3.5	8.05
YPG355M2-6	160	290	990	1543		3.5	9.63
YPG355L-6	200	360	990	1929		3.5	11.82

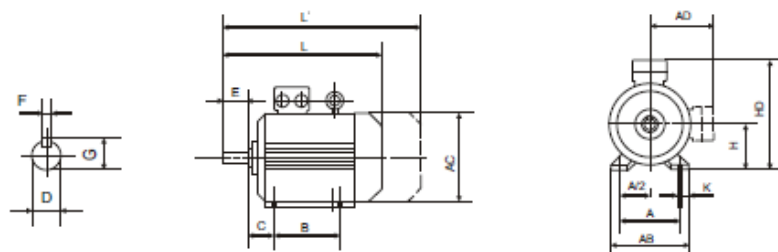
表3 8极电动机技术数据 Table 3 8-electrode motor technical data

型 号 Type	标称功率 Normal power kw	额定电流 Rated current A	额定转速 Rated speed r/min	额定转矩 Rated torque N·m	起 动 转 矩 Blocked torque	最大转矩 Max. torque	转动惯量 Moment of inertia kg·m ²
					额 定 转 矩 Rated torque (1Hz)	额 定 转 矩 Rated torque (50Hz)	
YPG80M1-8	0.12	0.6	690	1.7	≥1.3	3.6	0.002
YPG80M2-8	0.18	0.8	690	2.5		3.6	0.0025
YPG90S-8	0.25	1.1	710	3.4		3.6	0.0031
YPG90L-8	0.37	1.5	710	5.0		3.6	0.004
YPG100L1-8	0.55	2.0	720	7.3		3.5	0.0065
YPG100L2-8	0.75	2.3	720	10		3.5	0.0082
YPG112M-8	1.1	3.3	725	14.5		3.5	0.0185
YPG132S-8	1.5	4.3	725	20		3.6	0.0375
YPG132M-8	2.2	5.6	725	30		3.5	0.0515
YPG160M1-8	3.0	7.5	725	40		3.4	0.0875
YPG160M2-8	4.0	9.8	725	52.7		3.4	0.0925
YPG160L-8	5.5	13.5	725	72.5		3.5	0.1225
YPG180L-8	7.5	17.2	730	98.1		3.6	0.285
YPG200L-8	11	25	730	144		3.5	0.412
YPG225S-8	15	32	730	196		3.3	0.610
YPG225M-8	18.5	40.5	730	242		3.3	0.695
YPG250M-8	22	46	735	286		3.5	1.015
YPG280S-8	30	62	735	390		3.5	1.65
YPG280M-8	37	75	735	481		3.5	1.95
YPG315S-8	45	90	735	585		3.5	3.225
YPG315M-8	55	108	740	710		3.4	4.725
YPG315L1-8	75	150	740	968		3.6	5.3
YPG315L2-8	90	174	740	1161		3.6	5.9
YPG355M1-8	110	215	740	1419		3.6	8.05
YPG355M2-8	132	260	740	1703		3.5	9.63
YPG355L-8	160	316	740	2064		3.5	11.82

注：起动转矩 / 额定转矩为1Hz时的值，其大小与变频器的控制方式有关。

Note: The data is related to the control mode of transducer when the start torque/rated torque is 1HZ.

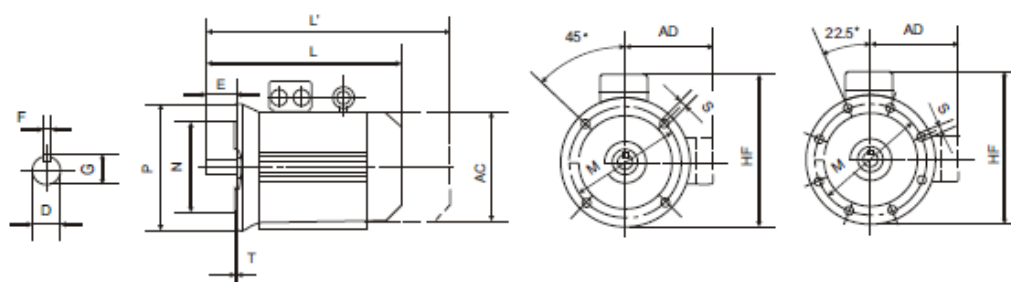
六、外形及安装尺寸 Outer Shape Installation Size



(1) B3

mm

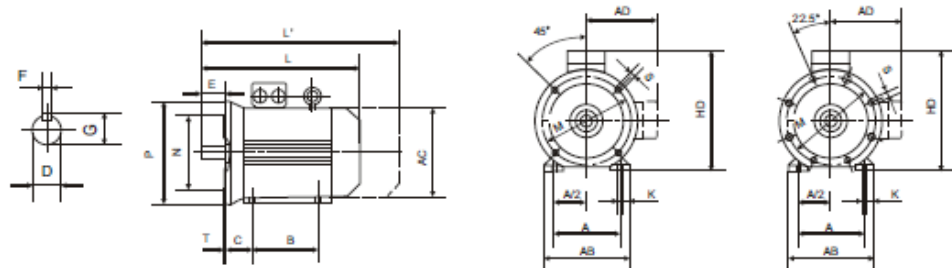
机座号 Frame	外形及安装尺寸 Outer Shape Installation Size														带制动器尺寸 With Brake Size
	A	B	C	H	D	E	F	G	K	AB	AC	AD	HD	L	L'
YPG80M	125	100	50	80	19	40	6x6	15.5	10	165	175	145	220	295	385
YPG90S	140	100	56	90	24	50	8x7	20	10	180	195	155	250	320	410
YPG90L	140	125	56	90	24	50	8x7	20	10	180	195	155	250	345	435
YPG100L	160	140	63	100	28	60	8x7	24	12	205	215	180	270	385	480
YPG112M	190	140	70	112	28	60	8x7	24	12	230	240	190	300	400	495
YPG132S	216	140	89	132	38	80	10x8	33	12	270	275	210	345	470	565
YPG132M	216	178	89	132	38	80	10x8	33	12	270	275	210	345	510	605
YPG160M	254	210	108	160	42	110	12x8	37	15	320	330	255	420	615	730
YPG160L	254	254	108	160	42	110	12x8	37	15	320	330	255	420	670	785
YPG180M	279	241	121	180	48	110	14x9	42.5	15	355	380	280	455	700	825
YPG180L	279	279	121	180	48	110	14x9	42.5	15	355	380	280	455	740	865
YPG200L	318	305	133	200	55	110	16x10	49	19	395	420	305	505	770	895
YPG225S	356	286	149	225	60	140	18x11	53	19	435	470	335	560	815	945
YPG225M	356	311	149	225	60	140	18x11	53	19	435	470	335	560	845	975
YPG250M	406	349	168	250	65	140	18x11	58	24	490	510	370	615	910	1060
YPG280S	457	368	190	280	75	140	20x12	67.5	24	550	580	410	680	985	1135
YPG280M	457	419	190	280	75	140	20x12	67.5	24	550	580	410	680	1035	1185
YPG315S	508	406	216	315	80	170	22x14	71	28	635	645	530	845	1270	1450
YPG315M	508	457	216	315	80	170	22x14	71	28	635	645	530	845	1300	1480
YPG315L	508	508	216	315	80	170	22x14	71	28	635	645	530	845	1300	1480
YPG355M	610	560	254	355	95	170	25x14	86	28	730	710	655	1010	1530	—
YPG355L	610	630	254	355	95	170	25x14	86	28	730	710	655	1010	1530	—



(2) B5

mm

机座号 Frame	外形及安装尺寸 Outer Shape Installation Size													带制动器尺寸 With Brake Size
	D	E	F	G	M	N	P	S	T	AC	AD	HF	L	L'
YPG80M	19	40	6x6	15.5	165	130	200	4- ϕ 12	3.5	175	145	185	295	385
YPG90S	24	50	8x7	20	165	130	200	4- ϕ 12	3.5	195	155	195	320	410
YPG90L	24	50	8x7	20	165	130	200	4- ϕ 12	3.5	195	155	195	345	435
YPG100L	28	60	8x7	24	215	180	250	4- ϕ 15	4.0	215	180	245	385	480
YPG112M	28	60	8x7	24	215	180	250	4- ϕ 15	4.0	240	190	265	400	495
YPG132S	38	80	10x8	33	265	230	300	4- ϕ 15	4.0	275	210	315	470	565
YPG132M	38	80	10x8	33	265	230	300	4- ϕ 15	4.0	275	210	315	510	605
YPG160M	42	110	12x8	37	300	250	350	4- ϕ 19	5.0	330	255	385	615	730
YPG160L	42	110	12x8	37	300	250	350	4- ϕ 19	5.0	330	255	385	670	785
YPG180M	48	110	14x9	42.5	300	250	350	4- ϕ 19	5.0	380	280	430	700	825
YPG180L	48	110	14x9	42.5	300	250	350	4- ϕ 19	5.0	380	280	430	740	865
YPG200L	55	110	16x10	49	350	300	400	4- ϕ 19	5.0	420	305	480	770	895
YPG225S	60	140	18x11	53	400	350	450	8- ϕ 19	5.0	470	335	535	815	945
YPG225M	60	140	18x11	53	400	350	450	8- ϕ 19	5.0	470	335	535	845	975
YPG250M	65	140	18x11	58	500	450	550	8- ϕ 19	5.0	510	370	595	910	1060
YPG280S	75	140	20x12	67.5	500	450	550	8- ϕ 19	5.0	580	410	650	985	1135
YPG280M	75	140	20x12	67.5	500	450	550	8- ϕ 19	5.0	580	410	650	1035	1185



(3) B35

mm

机座号 Frame	外形及安装尺寸 Outer Shape Installation Size																			带制动器尺寸 With Brake Size
	A	B	C	H	D	E	F	G	M	N	P	S	T	K	AB	AC	AD	HD	L	L'
YPG80M	125	100	50	80	19	40	6x6	15.5	165	130	200	4-φ12	3.5	10	165	175	145	220	295	385
YPG90S	140	100	56	90	24	50	8x7	20	165	130	200	4-φ12	3.5	10	180	195	155	250	320	410
YPG90L	140	125	56	90	24	50	8x7	20	165	130	200	4-φ12	3.5	10	180	195	155	250	345	435
YPG100L	160	140	63	100	28	60	8x7	24	215	180	250	4-φ15	4.0	12	205	215	180	270	385	480
YPG112M	190	140	70	112	28	60	8x7	24	215	180	250	4-φ15	4.0	12	230	240	190	300	400	495
YPG132S	216	140	89	132	38	80	10x8	33	265	230	300	4-φ15	4.0	12	270	275	210	345	470	565
YPG132M	216	178	89	132	38	80	10x8	33	265	230	300	4-φ15	4.0	12	270	275	210	345	510	605
YPG160M	254	210	108	160	42	110	12x8	37	300	250	350	4-φ19	5.0	15	320	330	255	420	615	730
YPG160L	254	254	108	160	42	110	12x8	37	300	250	350	4-φ19	5.0	15	320	330	255	420	670	785
YPG180M	279	241	121	180	48	110	14x9	42.5	300	250	350	4-φ19	5.0	15	355	380	280	455	700	825
YPG180L	279	279	121	180	48	110	14x9	42.5	300	250	350	4-φ19	5.0	15	355	380	280	455	740	865
YPG200L	318	305	133	200	55	110	16x10	49	350	300	400	4-φ19	5.0	15	395	420	305	505	770	895
YPG225S	356	286	149	225	60	140	18x11	53	400	350	450	8-φ19	5.0	19	435	470	335	560	815	945
YPG225M	356	311	149	225	60	140	18x11	53	400	350	450	8-φ19	5.0	19	435	470	335	560	845	975
YPG250M	406	349	168	250	65	140	18x11	58	500	450	550	8-φ19	5.0	24	490	510	370	615	910	1060
YPG280S	457	368	190	280	75	140	20x12	67.5	500	450	550	8-φ19	5.0	24	550	580	410	680	985	1135
YPG280M	457	419	190	280	75	140	20x12	67.5	500	450	550	8-φ19	5.0	24	550	580	410	680	1035	1185
YPG315S	508	406	216	315	80	170	22x14	71	600	550	660	8-φ24	6.0	28	635	645	530	845	1270	1450
YPG315M	508	457	216	315	80	170	22x14	71	600	550	660	8-φ24	6.0	28	635	645	530	845	1300	1480
YPG315L	508	508	216	315	80	170	22x14	71	600	550	660	8-φ24	6.0	28	635	645	530	845	1300	1480