



YVF

YVF 系列变频调速三相异步电动机 INVERTER DUTY THREE-PHASE ASYNCHRONOUS MOTOR

YVF 系列变频调速三相异步电动机与电子变频器联合使用，可实现转速150~2750rpm (4极) 范围内的无级调速，是那些有大范围无级调速需求的机械设备的理想动力。广泛应用于交通运输、冶金、纺织、印染、化工、矿山、风机、水泵等行业。其电气性能和安装尺寸按国家标准JB/T7118-2004要求制造，并与国际IEC 标准接轨。

YVF series inverter duty three-phase asynchronous motor are suitable for running in frequency change and speed regulation system which the power is supplied by a frequency converter. This new series of product designed unitedly in the country can be mated with all kinds of SPWM frequency changer and speed regulation devices and is equipped with a separate cooling fan which ensure the motor for good cooling at various speed. They can be used in machine tool, metallurgic industry, textile, printing and dyeing, transportation, chemical industry, mine and for speed regulation of fans and pumps.

产品相关参数:
机座中心高:80~355mm
功率范围:0.55~315kW
额定电压:380V (其他电压需另订协议)
额定频率:50Hz (或60Hz)
防护等级:IP54 (或IP55)
绝缘等级:F级
工作制: S1

Technical Data:
Centre height of frame: 80-355mm
Power range:0.55-315kW
Rated voltage:380V or order
Rated frequency:50Hz or 60Hz
Protection class:IP54 or IP55
Insulation class:F
Duty type: S1

性能数据 Performance Data

Rated Voltage: 380V FUNDAMENTAL FREQUENCY: 50HZ
额定电压：380V 基频：50HZ

型号 Type	功率 kW	额定 电流 A	转速 r/min	效率 E ff. %	功率 因数 P.F	额定 转矩 N.m	重量 Kg	恒转矩调频范围 Constant Torque Frequency Range Hz	恒功率调频范围 Constant Output Frequency Range Hz
同步转速 3000 r/min									
YVF -80M1-2	0.75	1.83	2845	80.7	0.83	2.52	15	5-50	50-100
YVF -80M2-2	1.1	2.61	2845	82.7	0.84	3.69	16.5		
YVF -90S-2	1.5	3.46	2840	84.2	0.84	5.04	20		
YVF -90L-2	2.2	4.85	2840	85.9	0.85	7.40	24		
YVF -100L-2	3	6.34	2860	87.1	0.87	10.1	31		
YVF -112M-2	4	8.20	2880	88.1	0.88	13.3	38		
YVF -132S1-2	5.5	11.1	2900	89.2	0.88	18.1	58		
YVF -132S2-2	7.5	14.9	2900	90.1	0.88	24.7	62		
YVF -160M1-2	11	21.2	2930	91.2	0.89	35.9	103		
YVF -160M2-2	15	28.6	2930	91.9	0.89	48.9	112		
YVF -160L-2	18.5	34.7	2930	92.4	0.90	60.3	135		
YVF -180M-2	22	41.0	2940	92.7	0.90	71.5	165		
YVF -200L1-2	30	55.4	2950	93.3	0.90	97.0	215		
YVF -200L2-2	37	67.9	2950	93.7	0.90	120	232		
YVF -225M-2	45	82.1	2960	94.0	0.90	145	285		
YVF -250M-2	55	99.8	2965	94.3	0.90	177	375	5-50	50-70
YVF -280S-2	75	135	2970	94.7	0.90	241	500		
YVF -280M-2	90	160	2970	95.0	0.91	297	550		
YVF -315S-2	110	195	2975	95.2	0.91	353	860	5-50	50-60
YVF -315M-2	132	233	2975	95.4	0.91	424	960		
YVF -315L1-2	160	279	2975	95.6	0.92	514	1020		
YVF -315L-2	185	323	2975	95.7	0.92	594	--		
YVF -315L2-2	200	348	2975	95.8	0.92	642	1080		
YVF -315L3-2	220	383	2975	95.8	0.92	706	--		
YVF -355M1-2	220	383	2975	95.8	0.92	705	--		
YVF -355M-2	250	435	2980	95.8	0.92	801	1700		
YVF -355L1-2	280	487	2980	95.8	0.92	897	--		
YVF -355L-2	315	548	2980	95.8	0.92	1009	1850		
YVF -355L2-2	355	617	2980	95.8	0.92	1138	--		
YVF -355L3-2	375	652	2980	95.8	0.92	1202	--		

性能数据 Performance Data

Rated Voltage: 380V FUNDAMENTAL FREQUENCY: 50HZ
额定电压：380V 基频：50HZ

型号 Type	功率 kW	额定 电流 A	转速 r/min	效率 Eff. %	功率 因数 P.F	额定 转矩 N.m	重量 Kg	恒转矩调频范围 Constant Torque Frequency Range Hz	恒功率调频范围 Constant Output Frequency Range Hz
同步转速 1000r/min									
YVF-80M1-4	0.55	1.57	1390	80.8	0.75	3.78	14.5	5-50	50-100
YVF-80M2-4	0.75	2.05	1390	82.5	0.76	5.15	15		
YVF-90S-4	1.1	2.85	1390	84.1	0.77	7.56	19		
YVF-90L-4	1.5	3.68	1390	85.3	0.79	10.3	23		
YVF-100L1-4	2.2	5.09	1410	86.7	0.81	14.9	30		
YVF-100L2-4	3	6.73	1410	87.7	0.82	20.3	33		
YVF-112M-4	4	8.80	1440	88.6	0.82	26.5	43		
YVF-132S-4	5.5	11.7	1440	89.6	0.83	36.5	60		
YVF-132M-4	7.5	15.6	1440	90.4	0.84	49.7	69		
YVF-160M-4	11	22.5	1460	91.4	0.84	72.0	107		
YVF-160L-4	15	30.0	1460	92.1	0.85	98.1	130		
YVF-180M-4	18.5	36.3	1470	92.6	0.86	120	162		
YVF-180L-4	22	42.9	1470	93.0	0.86	143	175		
YVF-200L-4	30	58.0	1470	93.6	0.86	195	227		
YVF-225S-4	37	70.2	1475	93.9	0.87	240	282		
YVF-225M-4	45	85.0	1475	94.2	0.87	291	315		
YVF-250M-4	55	103	1480	94.6	0.87	355	390		
YVF-280S-4	75	140	1480	95.0	0.87	484	525		
YVF-280M-4	90	167	1480	95.2	0.87	571	590		
YVF-315S-4	110	201	1480	95.4	0.88	710	900		
YVF-315M-4	132	240	1480	95.6	0.88	852	1000		
YVF-315L1-4	160	288	1480	95.8	0.89	1032	1070		
YVF-315L-4	185	333	1480	96.0	0.89	1194	--		
YVF-315L2-4	200	360	1480	96.0	0.89	1291	1140		
YVF-315L3-4	220	396	1480	96.0	0.89	1420	--		
YVF-355M1-4	220	396	1490	96.0	0.89	1410	--		
YVF-355M-4	250	444	1490	96.0	0.90	1602	1760		
YVF-355L1-4	280	497	1490	96.0	0.90	1795	--		
YVF-355L-4	315	559	1490	96.0	0.90	2019	1920		
YVF-355L2-4	355	630	1490	96.0	0.90	2275	--		
YVF-355L3-4	375	666	1490	96.0	0.90	2404	--		

性能数据 Performance Data

Rated Voltage: 380V FUNDAMENTAL FREQUENCY: 50HZ
额定电压：380V 基频：50HZ

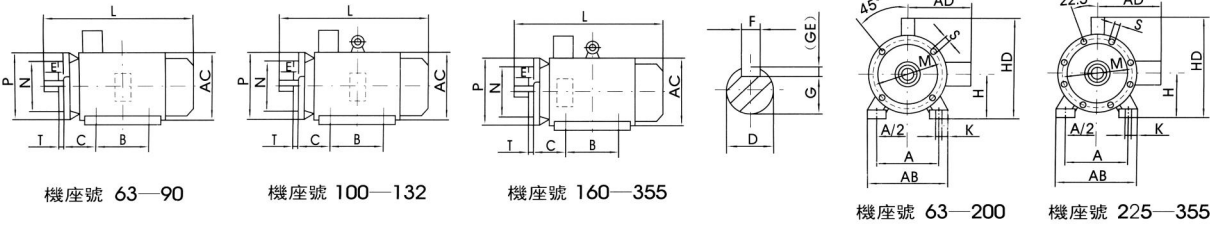
型号 Type	功率 kW	额定 电流 A	转速 r/min	效率 Eff. %	功率 因数 P.F	额定 转矩 N.m	重量 Kg	恒转矩调频范围 Constant Torque Frequency Range Hz	恒功率调频范围 Constant Output Frequency Range Hz
同步转速 1000r/min									
YVF-80M1-6	0.37	1.30	885	73.5	0.70	3.99	15.5	5-50	50-100
YVF-80M2-6	0.55	1.79	885	77.2	0.72	5.94	16.5		
YVF-90S-6	0.75	2.29	910	78.9	0.72	7.87	20		
YVF-90L-6	1.1	3.18	910	81.0	0.73	11.5	24		
YVF-100L-6	1.5	4.00	920	82.5	0.75	15.6	29		
YVF-112M-6	2.2	5.57	935	84.3	0.76	22.5	37		
YVF-132S-6	3	7.40	960	85.6	0.76	29.8	53		
YVF-132M1-6	4	9.75	960	86.8	0.76	39.8	64		
YVF-132M2-6	5.5	12.9	965	88.0	0.77	54.4	72		
YVF-160M-6	7.5	17.2	970	89.1	0.77	73.8	97		
YVF-160L-6	11	24.5	970	90.3	0.78	108	126		
YVF-180L-6	15	31.6	970	91.2	0.81	148	166		
YVF-200L1-6	18.5	38.6	980	91.7	0.81	180	205		
YVF-200L2-6	22	44.7	980	92.2	0.83	214	220		
YVF-225M-6	30	59.3	980	92.9	0.84	292	290		
YVF-250M-6	37	71.1	980	93.3	0.86	361	370		
YVF-280S-6	45	85.9	980	93.7	0.86	439	490		
YVF-280M-6	55	105	980	94.1	0.86	536	540		
YVF-315S-6	75	142	985	94.6	0.86	727	850		
YVF-315M-6	90	170	985	94.9	0.86	873	960		
YVF-315L1-6	110	207	985	95.1	0.86	1066	1060		
YVF-315L2-6	132	245	985	95.4	0.86	1280	1120		
YVF-315L3-6	160	292	985	95.6	0.87	1551	--		
YVF-355M1-6	160	292	990	95.6	0.88	1543	1680		
YVF-355M-6	185	338	990	95.8	0.88	1785	--		
YVF-355M2-6	200	364	990	95.8	0.88	1929	1780		
YVF-355L1-6	220	401	990	95.8	0.88	2122	--		
YVF-355L-6	250	454	990	95.8	0.88	2412	1950		
YVF-355L2-6	280	509	990	95.8	0.88	2701	--		
YVF-355L3-6	315	572	990	95.8	0.88	3039	--		

性能数据 Performance Data

Rated Voltage: 380V FUNDAMENTAL FREQUENCY: 50HZ
额定电压：380V 基频：50HZ

型号 Type	功率 kW	额定 电流 A	转速 r/min	效率 Eff. %	功率 因数 P.F	额定 转矩 N.m	重量 Kg	恒转矩调频范围 Constant Torque Frequency Range Hz	恒功率调频范围 Constant Output Frequency Range Hz
同步转速 750r/min									
YVF-80M1-8	0.18	0.88	645	58.7	0.61	2.67	15.5	5-50	50-100
YVF-80M2-8	0.25	1.15	645	64.1	0.61	3.70	16.5		
YVF-90S-8	0.37	1.49	670	69.3	0.61	5.27	20		
YVF-90L-8	0.55	2.17	670	73.0	0.61	7.84	24		
YVF-100L1-8	0.75	2.40	680	75.0	0.67	10.5	30		
YVF-100L2-8	1.1	3.32	680	77.7	0.69	15.4	32		
YVF-112M-8	1.5	4.40	690	79.7	0.69	20.8	40		
YVF-132S-8	2.2	6.04	705	81.9	0.71	29.8	52		
YVF-132M-8	3	7.90	705	83.5	0.73	40.6	63		
YVF-160M1-8	4	10.3	720	84.8	0.73	53.1	90		
YVF-160M2-8	5.5	13.6	720	86.2	0.74	73.0	100		
YVF-160L-8	7.5	17.8	720	87.3	0.75	99.5	124		
YVF-180L-8	11	25.1	730	88.6	0.76	144	160		
YVF-200L-8	15	34.1	730	89.6	0.76	196	212		
YVF-225S-8	18.5	41.1	730	90.1	0.76	242	255		
YVF-225M-8	22	47.4	730	90.6	0.78	288	285		
YVF-250M-8	30	63.4	735	91.3	0.79	390	370		
YVF-280S-8	37	77.8	735	91.8	0.79	481	485		
YVF-280M-8	45	94.1	735	92.2	0.79	585	540		
YVF-315S-8	55	111	735	92.5	0.81	715	820		
YVF-315M-8	75	151	735	93.1	0.81	974	970		
YVF-315L1-8	90	178	735	93.4	0.82	1169	1050		
YVF-315L2-8	110	217	735	93.7	0.82	1429	1130		
YVF-355M1-8	132	261	740	94.0	0.82	1704	1720		
YVF-355M2-8	160	315	740	94.3	0.82	2065	1800		
YVF-355L1-8	185	364	740	94.6	0.82	2388	--		
YVF-355L-8	200	387	740	94.6	0.83	2581	1950		
YVF-355L2-8	220	426	740	94.6	0.83	2839	--		
YVF-355L3-8	250	484	740	94.6	0.83	3226	--		
同步转速 600r/min									
YVF-315S-10	45	100	590	91.5	0.75	728	830	5-50	50-100
YVF-315M-10	55	121	590	92.0	0.75	890	940		
YVF-315L1-10	75	162	590	95.5	0.76	1214	1070		
YVF-315L2-10	90	191	590	93.0	0.77	1457	1150		
YVF-355M1-10	110	230	590	93.2	0.78	1751	1660		
YVF-355M2-10	132	275	590	93.5	0.78	2137	1780		
YVF-355L1-10	160	333	590	93.5	0.78	2590	--		
YVF-355L-10	185	385	590	93.5	0.78	2994	1950		
YVF-355L2-10	200	417	590	93.5	0.78	3237	--		
YVF-355L3-10	220	458	590	93.5	0.78	3561	--		

附录 II - YX3、YE3、YD2、YEJ2、YVF2系列电动机外形及安装尺寸
Appendix II-YX3、YE3、YD2、YEJ2、YVF2 series motor shapes and installation dimensions

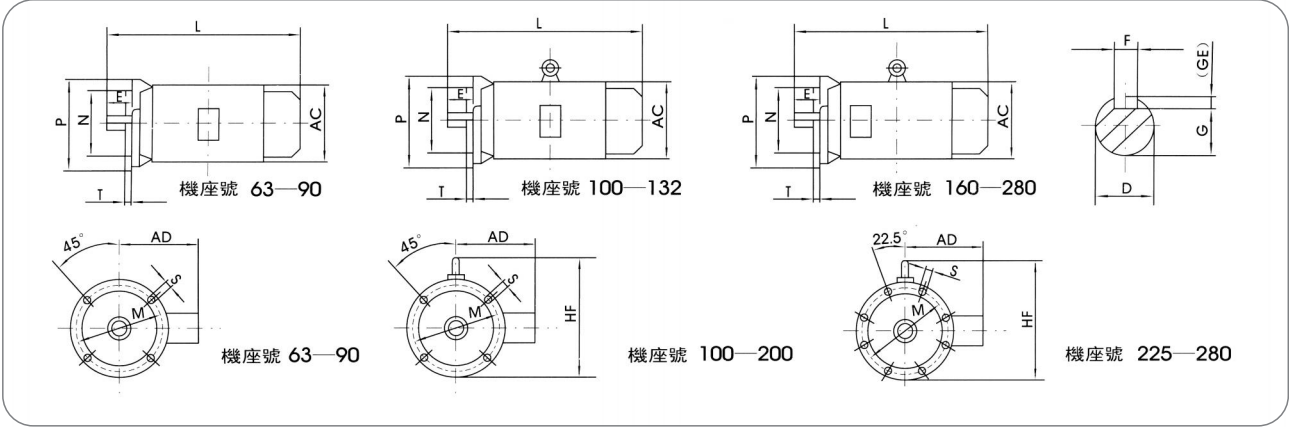


機座帶底腳，端蓋上有凸緣(帶通孔)的電動機
Frame with foot end, shield with flange(with through hole)

单位: mm

机座号 Frame size	凸 缘 号 Flange size	极数 Poles	安 装 尺 寸 Fixing Measurement																	外 形 尺 寸 Figure size				
			A	A/2	B	C	D	E	F	G	H	K	M	N	P	R	S	T	凸缘孔数 Flange holes	AB	AC	AD	HD	L
63M	FF115	2、4	100	50	80	40	11	23	4	8.5	63	7	115	95	140		10	3		135	130	70	180	230
71M	FF130	2、4、6	112	56	90	45	14	30	5	11	71		130	110	160					150	145	80	195	255
80M	FF165		125	62.5	100	50	19	40	6	15.5	80	10	165	130	200		12	3.5		165	175	145	220	295
90S			140	70	100	56	24	50		20	90									180	195	155	250	320
90L					125																			345
100L	FF215		160	80	140	63	28	60		24	100	12	215	180	250		15	4	4	205	215	180	270	385
112M			190	95	140	70					112									230	240	190	300	400
132S	FF265	2、4、6、8	216	108	140	89	38	80	10	33	132		265	230	300					270	275	210	345	470
132M					178																			510
160M			254	127	210	108	42		12	37		15	300	250	350					320	330	255	420	615
160L	FF300				254																			670
180M			279	139.5	241	121	48	110	14	42.5	180									355	380	280	455	700
180L					279																			740
200L	FF350		318	159	305	133	55		16	49	200		350	300	400					395	420	305	505	770
225S	FF400	4、8			286		60	140	18	53		19												815
225M		2	356	178		149	55	110	16	49	225		400	350	450		0	19	5	435	470	335	560	820
		4、6、8			311		60			53														845
250M	FF500	2	406	203	349	168			18		250									490	510	370	615	910
		4、6、8					65			58														
280S		2			368		140		20	67.5	280	24	500	450	550									985
		4、6、8	457	228.5		190	75		18	58										550	580	410	680	
280M		2			419		75		20	67.5														1035
	FF600	4、6、8																	8					1178
315S		2			406		65		18	58														1208
		4、6、8、10					80	170	22	71														1290
315M		2	508	254	457	216	65	140	18	58	315		600	550	660					635	645	490	800	1320
		4、6、8、10					80	170	22	71														1395
315L	FF740	2					65		18	58									24	6				1500
		4、6、8、10					80	170	22	71														1530
355M		2			560		75	140	20	67.5	355		740	680	800									1500
		4、6、8、10	610	305		254	95	170	25	86										730	710	530	880	1530
355L		2			630		75	140	20	67.5														1530
		4、6、8、10					95	170	25	86														1530

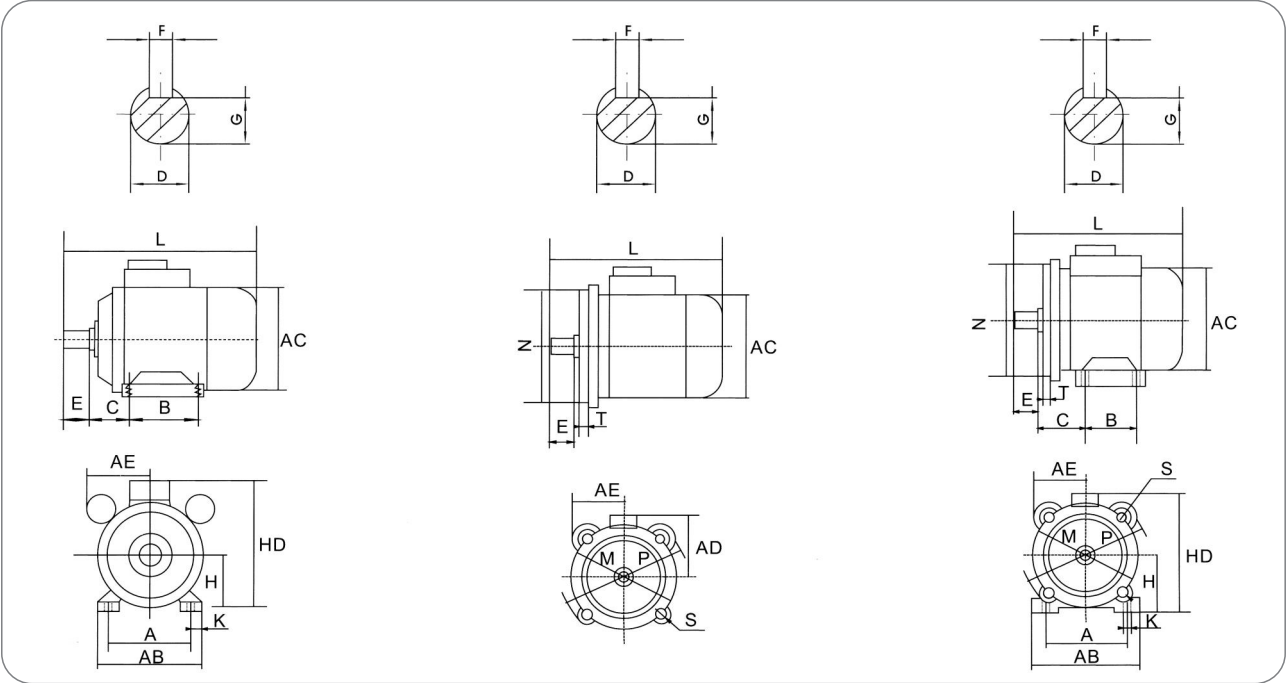
附录 III- YX3、YE3、YD2、YEJ2、YVF2系列电动机外形及安装尺寸
Appendix III-YX3, YE3, YD2, YEJ2, YVF2 series motor shapes and installation dimensions



单位: mm

机座号 Frame size	凸缘号 Flange size	极数 Poles	安 装 尺 寸 Fixing Measurement											外 形 尺 寸 Figure size						
			D	E	F	G	M	N	P	R	S	T	凸缘孔数 Flange holes	AC	AD	HD	L			
																	YE2、YX3、YE3、YD2	YVF2	YEJ2	
63M	FF115	2、4	11	23	4	8.5	115	95	140		10	3		130	70	130	230	/	/	
71M	FF130	2、4、6	14	30	5	11	130	110	160					145	80	145	255			
80M	FF165	2、4、6、8	19	40	6	15.5	165	130	200	0	12	3.5	4	175	145	185	295	370	390	
90S			24	50	8	20								195	155	195	320	380	420	
90L														345	410	445				
100L	FF215		28	60		24	215	180	250					215	180	245	385	465	480	
112M														240	190	265	400	480	570	
132S	FF265		38	80	10	33	265	230	300					15	4	4	275	210	315	470
132M			510	570	625	/	/													
160M	FF300		42	110	12	37	300	250	350		330	255					385	615	660	720
160L					670	715					765	/					/			
180M			48		14	42.5					380	280					430	700	775	825
180L					740	815					875									
200L	FF350		55			16	49	350	300		400	420		305	480	770	850	900		
225S	FF400	4、8	60	140	18	53	400	350	450	19	5	8	470	335	535	815	880	1000		
225M		2	55	110	16	49										820	915	1000		
		4、6、8	60	18	53	845										1030				
250M	2	65			58	500	450	550	510				370	595	910	980	/			
	4、6、8		2						75				20	67.5	580	410		650	985	1085
280S	4、6、8		75		20				67.5				1035	1135	/					
	2															65		18	58	
280M	4、6、8	75		20												67.5				

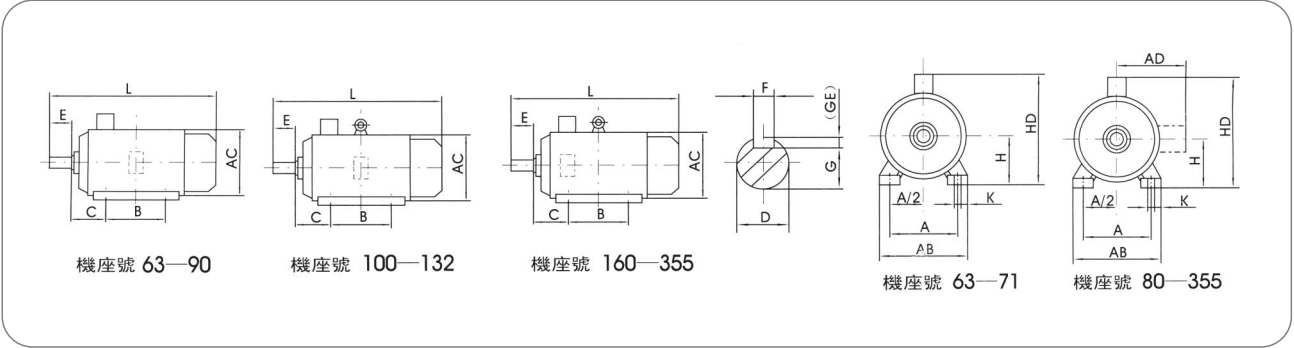
附录 VI - YL系列单相双值电容异步电动机
Appendix VI-YL series single-phase dual-value Capacitor Induction Motors



单位: mm

机座号 Frame size	安 装 尺 寸 Fixing Measurement																				外 形 尺 寸 Figure size						
										IMB14.IMB34						IMB5.IMB35											
	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	M	N	P	R	S	T	AB	AC	AD	AE	HD	L
71	112	90	45	14	30	5	11	71	7	85	70	1.5	0	M6	2.5	-	-	-	-	-	-	145	145	140	105	180	255
80	125	100	50	19	40	6	15.5	80	10	100	80	120	0	M6	2.5	-	-	-	-	-	-	160	165	150	120	200	295
90S	140	100	56	24	50	8	20	90	10	115	95	140	0	M8	3	-	-	-	-	-	-	180	185	160	130	240	370
90L	140	125	56	24	50	8	20	90	10	115	95	140	0	M8	3	-	-	-	-	-	-	180	185	160	130	240	400
100L	160	140	63	28	60	8	24	100	12	-	-	-	-	-	-	215	180	250	0	15	4	205	220	180	130	260	430
112M	190	140	70	28	60	8	24	112	12	-	-	-	-	-	-	215	180	250	0	15	4	245	250	190	140	300	455
132S	216	140	89	38	60	10	33	132	12	-	-	-	-	-	-	215	180	250	0	15	4	280	290	210	155	300	525

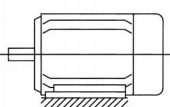
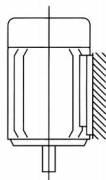
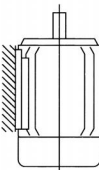
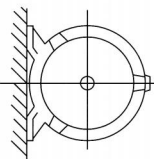
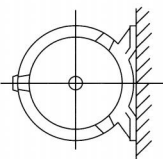
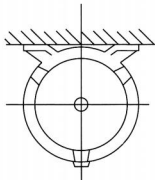
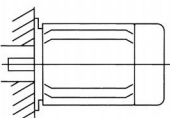
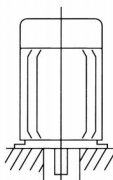
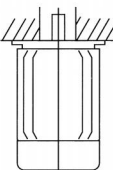
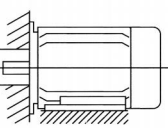
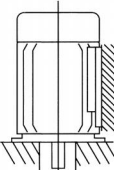
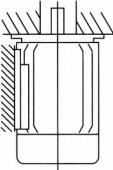
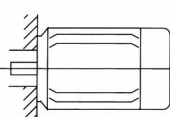
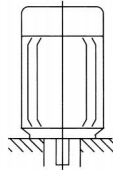
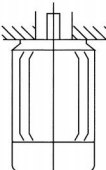
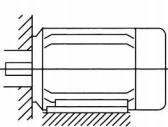
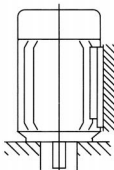
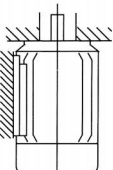
附录 I-YX3、YE3、YD2、YEJ2、YVF2系列电动机外形及安装尺寸



单位: mm

机座号 Frame size	极数 Poles	安 装 尺 寸 Fixing Measurement										外 形 尺 寸 Figure size												
		A	A/2	B	C	D	E	F	G	H	K	AB	AC	AD	HD	L								
																YE2、YX3、YE3、YD2	YVF2	YEJ2						
63M	2、4	100	50	80	40	11	23	4	8.5	63	7	135	130	70	180	230	/	/						
71M	2、4、6	112	56	90	45	14	30	5	11	71		150	145	80	195	255								
80M		125	62.5	100	50	19	40	6	15.5	80	10	165	175	145	220	295	370	390						
90S	2.4.6.8	140	70	100	56	24	50	8	20	90		12	180	195	155	250	320	380	420					
90L				125							345						410	445						
100L		160	80	140	63	28	60		24	100	205	215	180	270	385	465	480							
112M		190	95	140	70													112	230	240	190	300	400	480
132S		216	108	140	89	38	80		10	33	132	270	275	210	345	470	530							
132M				178												510	570	625						
160M		254	127	210	108	42	110	12	37	160	15	320	330	255	420	615	660	720						
160L				254												670	715	765						
180M		279	139.5	241	121	48		14	42.5	180	355	380	280	455	700	775	825							
180L				279											740	815	875							
200L		318	159	305	133	55		16	49	200	19	395	420	305	505	770	850	900						
225S	4、8	356	178	286	149	60		140	18	53		225	435	470	335	560	815	885	1000					
225M	2			311		55	110	16	49	60	53						250	24	490	510	370	615	910	980
	4、6、8					845	1030																	
250M	2	406	203	349	168	65	140	18	58	280	24	550	580	410	680	985	1085	/						
280S	4、6、8																		457	228.5	190	75	20	67.5
	2	419	75	20	67.5	1035		1135																
280M	4、6、8								508	254	457	216	65	140	18	58	315		28	635	645	490	800	1380
	2	508	65	140	18	58		1290																
315S	4、6.8.10								610	305	560	254	75	140	22	71	355		28	730	710	530	880	1500
315M	2	630	75	140	20	67.5	1500	1530																
	4、6.8.10								610	305	560	254	75	140	20	67.5	1500		1530					
315L	2	630	75	140	20	67.5	1500	1530																
355M	4、6.8.10								610	305	560	254	75	140	20	67.5	355	28	730	710	530	880	1500	
355L	2	630	75	140	20	67.5	1500	1530																
	4、6.8.10								610	305	560	254	75	140	20	67.5	355	28	730	710	530	880	1500	

国家电工委员会 IEC 60034-7 标准规定的电机安装方式
Mounting arrangements accordind to IEC 60034-7 standard

电机安装方式 Mounting arrangements	机座带底脚，端盖上无凸缘的电动机 Feet mounting without Flange					
	B3(IM1001)	V5(IM1011)	V6(IM1031)	B6(IM1051)	B7(IM1061)	B8(IM1071)
制造范围 Range	H63~H355	H63~H160	H63~H160	H63~H160	H63~H160	H63~H160
示意图 Diagram						
电机安装方式 Mounting arrangements	机座不带底脚，端盖上有大凸缘的电动机 Large flange mounting without feet			机座带底脚，端盖上有大凸缘的电动机 Large flange and mounting		
	B5(IM3001)	V1(IM3011)	V3(IM3031)	B35(IM2001)	V15(IM2011)	V36(IM2031)
制造范围 Range						
示意图 Diagram						
电机安装方式 Mounting arrangements	机座不带底脚，端盖上有小凸缘的电动机 Small flange mounting without feet			机座带底脚，端盖上有小凸缘的电动机 Small flange and feet mounting		
	B14(IM3601)	V18(IM3611)	V19(IM3631)	B34(IM2101)	V58(IM2111)	V69(IM2131)
制造范围 Range						
示意图 Diagram						

电机常见故障及排除方法Frequent malfunctions and solutions

故 障	可能的原因	检查或校正方法
1、電動機空載時不能啟動	1、饋電路斷線（三相當中的一根） 2、定子三相繞組中的一相斷路（“Y”形連接時） 3、電源電壓或頻率不對	檢查電源電壓和個別連接處。 檢查保險絲，饋電綫內電流和每一相繞組的電阻。 檢查電壓及頻率。
2、電動機在負載時不能啟動，在低負載或空載時能啟動，但在負載增加后轉速即大跌或甚至停下來	1、電源電壓低 2、定子繞組有匝間短路 3、定子三相繞組中異相斷綫（“Δ”接綫法時） 4、過載	檢查綫路電壓。 檢查每相繞組和每相空載電流。 檢查每相繞組電阻。 檢查負載。
3、電機停留在低轉速	1、定子繞組一相接反，電動機發響聲 2、轉子端環和導杆中間有斷裂情況	檢查饋電綫的電流和引出綫標記。 檢查短路電流。
4、定子過熱	1、饋電綫路三根中有一根斷綫或定子繞組一相斷路 2、電源電壓過大或過低 3、過載 4、定子匝間或相同短路 5、通風不好	檢查保險絲，綫間電壓和導綫電流。 檢查饋電綫內的電流，檢查定子相間和對地絕緣電阻。 檢查繞組電阻，檢查通風孔道。
5、軸承過熱	1、裝配不對 2、電動機軸與被拖動之軸不平行 3、沒有潤滑油，油內有雜物或油質不良 4、皮帶過緊 5、不平衡的磁性吸力大	檢查轉子是否容易轉動。 校正兩軸平衡。 用汽車洗刷更換潤滑油。 松皮帶或移動底腳。 檢查空氣隙偏心度。
6、合閘時保險設備跳閘	1、定子繞組一相接反 2、把應當接成“Y”形的定子三相繞組接成子“Δ”形 3、繞組對機座短路或相同短路	檢查引出綫標記和接法。 檢查引出綫標記和接法。 檢查各相繞組對機座的絕緣以及相同絕緣。
7、機械振動大	1、轉子不平衡只在相當低的轉數時才不振動 2、軸向竄動大 3、傳動皮帶接頭接得不好 4、皮帶輪不平穩	檢查平衡情況。 檢查軸承外的間隙，並加以調整。 重新接皮帶。 檢查皮帶輪。

注:電動機的故障及產生的故障的原因很多,有時一個故障可能有幾個原因,一個原因也可以產生幾種故障,上表所列僅為常見的幾種,在檢查如發生疑問可參閱有關檢修維護書或與制造廠聯系.

Stoppage	Possible reasons	Check or calibration methods
1. No-load motor can't start	1. Circuit broken wires (one of the three is the root) 2. When the child three-phase winding of the a phase breakers (" Y "type of connection) 3. The power supply voltage and frequency is wrong	Check the power supply voltage or individual connection. Check the fuse, feeders of current and each phase of the winding resistance. Check voltage and frequency
2、 Motor load in cannot begin at low load or no-load to start when, but in load increase speed that are even stop to plunge	1. The low voltage power supply 2. The group turns around the son between short circuit 3. The stator three-phase winding out-of-phase break line (" Δ "then method) 4. Overload	Check the line voltage; Check each phase windings and each phase no-load current; Check each phase winding resistance; Check the load
3. Motor stay in low rotation speed	1. A connect the stator winding, motor hair crosstalk 2. The rotor ring and guide bar among fracture	Check feeders current and lead wire mark; Check short-circuit current
4. Stator overheating	1. Feeders three roots there was a break or stator winding a phase open circuit 2. The power supply voltage too big or too low 3. overload 4. Same stator circle or short circuit 5. And ventilated bad	Check the fuse, line voltage and current between wire; Check the current in a feeders, Check the stator alternate with and ground insulation resistance; Check the winding resistance and stable wa
5. Bearing overheating	1. The assembly wrong 2. The motor shaft and the dragging is not parallel axis 3. No lubricating oil, oil impurities or oily bad there 4. Belts tight 5. Don't balance of magnetic big suction	Check whether the rotor to turn; Correction two axis balance; Use the car wash oil changing; The belt or loose move feet; Check the air gap eccentric degrees
6. When feeder insurance facilities trip	1. A connect the stator winding 2. Put a "Y" shall meet type stator windings to become " Δ " Δ 3. Winding base to short circuit or alternate with short circuit	Check mark and lead wire by law; Check mark and lead wire by law; Check the phase windings of the insulation and the same base of insulation
7. Mechanical vibration	1. Relet not only in balance quite a low speed don't vibration 2. the axial moving there 3. transmission belt joint answered the bad 4.pulley is not even	Check the balance situation; Check the clearance of bearing, and to make adjustments. To meet the belt; Check the pulley

Note:There are many reasons for the malfunctions,sometimes there might be several reasons for one problem,somet mes one reason might came several problem.These listed in the table are just those frequent appeared,please don't hesitate to contact us while in need.