

## ■ 使用条件

环境空气温度	-25~+50℃
海拔	0m
空气相对湿度	不大于95%
凝露	有
盐雾	有
油雾	有
霉菌	有
冲击	有
震动	有
倾斜	22.5°
摇摆	有

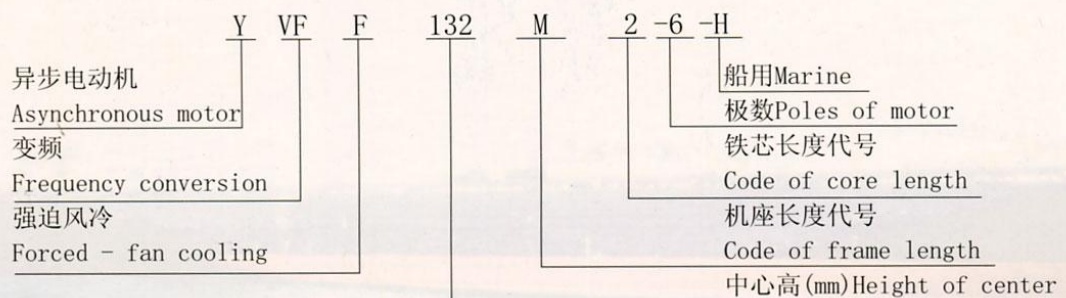
## ■ 电机冷却方式

YVF-H系列电机自带风扇，适用于不要求长时间低频运行的场所；YVFF-H系列采用独立供电的轴流风机对电机强迫风冷，可以长时间运行在低频场合。

## ■ 电动机的结构及安装型式

电动机的结构及安装型式为B3、B5、V1、V3、B35，并按下表的规定制造。

## ■ 电动机的结构及安装型式



## ■ Using Condition

Ambient air temperature	-25~+50℃
Altitude	0m
Related humidity	no more than 95%
Dewiness	yes
Salt mist	yes
Oil mist	yes
Mildew	yes
Impact	yes
Vibration	yes
Inelination	22.5°
Swing	yes

## ■ Cooling Method

YVF-H series motor is self-fan cooling, suitable for operaing under the conditions of low frequency for not long time;YVFF-H series motor's surface cooled by boower which has independnt power and can operate under conditions of low frequency for long time.

## ■ Construction and Mouning Type

The construction and mounting type areB3、B5、V1、V3、B35，which should be manufactured awordiry to the datas of the table.

**YVFF-H系列电机所配轴流风机的技术参数如下:**  
**technical parameter of the axial fan YVFF-H series**

风机型号 Blower Type	对应 机座号 Frame No.	电制 Blower Voltage	功率 Power (W)	电流 Current (A)	转速 Speed (r/min)	风量 Air Volume (m <sup>3</sup> /h)	风压 Wind Pressure (Pa)	噪声 Noise (dB)	风叶直径 Dia. of fan blade (mm)	重量 Weight (kg)
G-80A	80	三相 three phase 380V 50Hz	30	0.09	2300	330	70	65	150	1.5
G-90A	90		42	0.13	2800	500	80	65	169	2.5
G-100A	100		52	0.13	2800	660	82	67	186	3
G-112A	112		60	0.15	2730	900	90	70	200	3
G-132A	132		40	0.12	1300	780	50	68	250	4.4
G-160A	160		80	0.20	1350	1300	50	70	300	6
G-180A	180		80	0.20	1350	1300	55	70	300	7
G-200A	200		150	0.42	1350	2400	100	72	380	12
G-225A	225		200	0.52	1350	4200	150	74	400	14
G-250A	250		200	0.52	1350	4200	150	74	400	15
G-280A	280		320	1.1	1250	5000	1500	74	520	25
G-315A	315		320	1.20	1250	6200	180	75	580	28
G-355A	355		450	1.4	1400	7000	180	80	680	34
G-400A	400		450	1.5	1400	7000		80	680	34

机座号H80~160电机接线盒位于电机右侧(从轴伸端视之),H180~400电机接线盒子位于电机顶部。根据用户的需要可带各种高分辨率的传感器(光电编码器、测速发电机,超速开关等),可带电磁制动器、齿轮减速机等附件。

The terminal box of frame No. H80~160 is on the right of the motor from the shaft extension end, the terminal box of frame, No. H180~400 is of the top of the motor. Various high resolution sensors (photoelectric code devices, speed-testing generator, hypervelocity switch .etc) can be fitted to motor according to user's demands, and electromagnetic brake, gear-box or other accessories also can be fitted.

■ 电动机的技术数据 Technical Datas

表1 4极电机技术数据 (50Hz时同步转速为1500r/min)

Table 1 The technical data of 4 poles motor (The Syn. speed is 1500r/min at 50Hz)

型号 Type	额定功率 Rated Power Kw	额定电流 Rated Current A	额定输出 转矩 Rated Torque N.m	额定转速 Rated Speed r/min	起动转矩 额定转矩 (低频时) Starting Torque Rated torque (low frequency)	最大转矩 额定转矩 Max Torque Rated Torque	转动惯性 Moment of Inertia kg · m <sup>2</sup>	重量 Weight (kg)	
								不带风机 without blower	带风机 with blower
YVF(F) 80 <sub>1</sub> -4-H	0.55	1.6	3.5	1390	>1.5 倍  (与变频器 控制方式有 关)。  (Related to control meod of frequency converter)	3.0	0.0018	16.5	17
YVF(F) 80 <sub>2</sub> -4-H	0.75	2.0	4.7	1390		3.0	0.0021	18	18.5
YVF(F) 90S-4-H	1.1	2.9	7.0	1405		3.0	0.0021	21.5	22.5
YVF(F) 90L-4-H	1.5	3.8	9.5	1400		3.0	0.0027	25	26
YVF(F) 100L <sub>1</sub> -4-H	2.2	5.2	14.0	1410		3.0	0.0054	36	37.5
YVF(F) 100L <sub>2</sub> -4-H	3	7.0	19.0	1410		3.0	0.0067	39	40.5
YVF(F) 112M-4-H	4	9.3	25.4	1420		3.0	0.0095	52	54
YVF(F) 132S-4-H	5.5	12.0	35.0	1440		3.2	0.0214	71	74
YVF(F) 132M-4-H	7.5	15.5	47.7	1438		3.2	0.0296	84	46
YVF(F) 160M-4-H	11	22.5	70.0	1457		3.5	0.0747	122	126
YVF(F) 160L-4-H	15	31.0	95.5	1460		3.5	0.112	146	150
YVF(F) 180M-4-H	18.5	36.5	117.1	1470		4.0	0.139	187	192
YVF(F) 180L-4-H	22	43.5	140.9	1470		4.0	0.158	197	202
YVF(F) 200L-4-H	30	58	190.9	1475		4.0	0.263	243	252
YVF(F) 225S-4-H	37	70	235.5	1475		4.0	0.406	274	285
YVF(F) 225M-4-H	45	85	286.4	1475		4.0	0.469	295	306
YVF(F) 250M-4-H	55	103	350.1	1480		4.0	0.66	400	412
YVF(F) 280S-4-H	75	140	477.7	1485		3.5	1.12	530	550
YVF(F) 280M-4-H	90	167	572.9	1480		3.5	1.46	590	610
YVF(F) 315S-4-H	110	201	700.2	1488		3.5	3.11	890	915
YVF(F) 315M-4-H	132	240	840.3	1488		3.4	3.62	950	975
YVF(F) 315L <sub>1</sub> -4-H	160	287	1018.5	1488		3.3	4.13	1060	1085
YVF(F) 315L <sub>2</sub> -4-H	200	359	1273.2	1488		3.2	7.41	1130	1155
YVF(F) 355M-4-H	250	425	1602	1489		3.2	9.62	1645	1673
YVF(F) 355L-4-H	315	532	2019	1489		3.2	12.71	1800	1828
YVF(F) 400L <sub>1</sub> -4-H	355	604	2277	1489		3.2	17.4	2050	2078
YVF(F) 400L <sub>2</sub> -4-H	400	678	2565	1489		3.2	19.5	2210	2238
YVF(F) 400L <sub>3</sub> -4-H	500	845	3209	1488		3.2	22.1	2690	2718

表2 6极电机技术数据 (50Hz时同步转速为1000r/min)

Table 2 The technical data of 6 poles motor (The Syn. speed is 1000r/min at 50Hz)

型号 Type	额定功率 Rated Power Kw	额定电流 Rated Current A	额定输出 转矩 Rated Torque N.m	额定转速 Rated Speed r/min	起动转矩 额定转矩 Starting Torque Rated torque (低频率时) low frequency	最大转矩 额定转矩 Max Torque Rated Torque	转动惯性 Moment of Inertia kg·m <sup>2</sup>	重量 Weight (kg)	
								不带风机 without blower	带风机 with blower
YVF (F) 90S-6-H	0.75	2.13	7.5	930	>1.5 倍  (与变频器 控制方式有 关)。  (Related to control method of frequency converter)	3.0	0.0029	22.5	23.5
YVF (F) 90L-6-H	1.1	3.07	11.1	930		3.0	0.0035	26	27
YVF (F) 100L-6-H	1.5	4.0	14.3	950		3.0	0.0069	52	53.5
YVF (F) 112M-6-H	2.2	5.6	21.0	955		3.0	0.0138	51	53
YVF (F) 132S-6-H	3	6.9	28.6	962		3.2	0.0296	66	69
YVF (F) 132M <sub>1</sub> -6-H	4	9.0	38.2	962		3.2	0.0357	78	81
YVF (F) 132M <sub>2</sub> -6-H	5.5	12	52.5	960		3.2	0.0449	86	89
YVF (F) 160M-6-H	7.5	15.9	71.6	968		3.5	0.0932	121	125
YVF (F) 160L-6-H	11	23.3	105.0	970		3.5	0.116	145	149
YVF (F) 180L-6-H	15	30	143.2	980		3.5	0.207	187	192
YVF (F) 200L <sub>1</sub> -6-H	18.5	36.5	176.7	980		3.5	0.315	225	234
YVF (F) 200L <sub>2</sub> -6-H	22	43.4	210.0	980		3.5	0.360	230	239
YVF (F) 225M-6-H	30	56.5	286.5	980		3.5	0.547	278	289
YVF (F) 250M-6-H	37	68.4	353.3	980		3.5	0.834	370	382
YVF (F) 280S-6-H	45	84	429.7	990		3.5	1.39	495	515
YVF (F) 280M-6-H	55	101	525.2	990		3.5	1.65	540	560
YVF (F) 315S-6-H	75	138	716	990		3.5	4.11	860	885
YVF (F) 315M-6-H	90	165	860	990		3.5	4.78	970	995
YVF (F) 315L <sub>1</sub> -6-H	110	202	1050	990		3.5	5.45	1040	1065
YVF (F) 315L <sub>2</sub> -6-H	132	240	1260	990		3.5	6.12	1115	1140
YVF (F) 355M <sub>1</sub> -6-H	160	295	1528	991		3.5	9.83	1580	1608
YVF (F) 355M <sub>2</sub> -6-H	200	352	1766.8	991		3.5	12.9	1690	1718
YVF (F) 355L-6-H	250	437	2412	992		3.5	16.2	1885	1913
YVF (F) 400L <sub>2</sub> -6-H	315	556	3039	990		3.0	20.1	2210	2238
YVF (F) 400L <sub>3</sub> -6-H	355	626	3421	991		3.1	23.1	2690	2718

**表3 8极电机技术数据 (50Hz时同步转速为750r/min)**

**Table 3 The technical data of 8 poles motor (The Syn. speed is 750r/min at 50Hz)**

型号 Type	额定功率 Rated Power Kw	额定电流 Rated Current A	额定输出 转矩 Rated Torque N.m	额定转速 Rated Speed r/min	启动转矩 额定转矩 (低频时) Starting Torque Rated torque (low frequency)	最大转矩 额定转矩 Max Torque Rated Torque	转动惯性 Moment of Inertia kg · m <sup>2</sup>	重量 Weight (kg)	
								不带风机 without blower	带风机 with blower
YVF (F) 132S-8-H	2.2	6.3	29.2	718	>1.5 倍  (与变频器 控制方式有 关)。  (Related to control method of frequency converter)	3.0	0.0314	66	69
YVF (F) 132M-8-H	3	7.8	39.8	717		3.0	0.0395	78	81
YVF (F) 160M <sub>1</sub> -8-H	4	9.8	53.1	720		3.0	0.0931	108	111
YVF (F) 160M <sub>2</sub> -8-H	5.5	13.4	73.0	720		3.0	0.094	118	121
YVF (F) 160L-8-H	7.5	17.8	99.5	730		3.0	0.126	145	149
YVF (F) 180L-8-H	11	25.6	143.9	730		3.0	0.203	189	194
YVF (F) 200L-8-H	15	34.2	196.2	730		3.0	0.339	227	236
YVF (F) 225S-8-H	18.5	38.7	242.0	735		3.0	0.491	257	268
YVF (F) 225M-8-H	22	48.3	287.8	730		3.0	0.547	271	282
YVF (F) 250M-8-H	30	61	393	740		3.0	0.834	376	388
YVF (F) 280S-8-H	37	75	478	740		3.0	1.39	490	510
YVF (F) 280M-8-H	45	90	581	740		3.0	1.65	530	550
YVF (F) 315S-8-H	55	110	710	740		3.0	4.79	810	835
YVF (F) 315M-8-H	75	148	968	740		3.0	5.58	980	1005
YVF (F) 315L <sub>1</sub> -8-H	90	176	1161	740		3.0	6.37	1030	1055
YVF (F) 315L <sub>2</sub> -8-H	110	214	1420	740		3.0	7.23	1113	1138
YVF (F) 355M <sub>1</sub> -8-H	132	250	1704	744		3.0	9.4	1640	1668
YVF (F) 355M <sub>2</sub> -8-H	160	300	2065	743		3.0	12.6	1725	1753
YVF (F) 355L-8-H	200	372	2581	743		3.0	16.8	1870	1898
YVF (F) 400L <sub>2</sub> -8-H	250	472	3218	742		2.8	20.1	2210	2238
YVF (F) 400L <sub>3</sub> -8-H	315	591	4060	741	2.7	23.1	2690	2718	

表4 10极电机技术数据 (50Hz时同步转速为500r/min)

Table 4 The technical data of 10 poles motor (The Syn. speed is 500r/min at 50Hz)

型号 Type	额定功率 Rated Power Kw	额定电流 Rated Current A	额定输出 转矩 Rated Torque N.m	额定转速 Rated Speed r/min	启动转矩 额定转矩	最大转矩 额定转矩 Max Torque Rated Torque	转动惯性 Moment of Inertia kg · m <sup>2</sup>	重量 Weight (kg)	
					Starting Torque Rated torque (低频频时) low frequency			不带风机 without blower	带风机 with blower
YVF(F)315S-10-H	45	96	728	594	>1.5 倍  (与变频器 控制方式有 关)。  (Related to control method of frequency converter)	3.0	4.79	830	855
YVF(F)315M-10-H	55	115	890	594		3.0	5.58	940	965
YVF(F)315L <sub>1</sub> -10-H	75	156	1214	594		3.0	6.37	1050	1075
YVF(F)315L <sub>2</sub> -10-H	90	187	1457	594		3.0	7.23	1130	1155
YVF(F)355M <sub>1</sub> -10-H	110	225	1781	594		2.5	9.4	1650	1678
YVF(F)355M <sub>2</sub> -10-H	132	268	2137	594		2.5	12.6	1760	1788
YVF(F)355L-10-H	160	323	2590	594		2.5	16.8	1930	1958
YVF(F)400L <sub>2</sub> -10-H	200	410	3221	593		2.7	20.1	2230	2358
YVF(F)400L <sub>3</sub> -10-H	250	514	4020	594		2.8	23.1	2800	2828

注：电机的重量仅供参考，以电机铭牌为准

Note: The weight of motor only for Special see rating plane markings.

B35外形及安装尺寸  
Mounting and Overall Dimensions

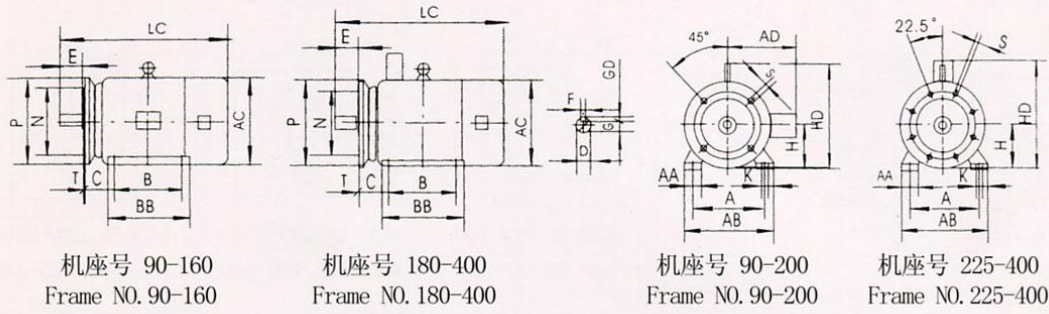


表7 机座带底脚,端盖带凸缘B35,带风机(YVFF-H系列)。

Table 7 Frame with feet and endshield without flange (B35)With blower.

机座号 Frame	安装尺寸 Mounting Dimensions									外形尺寸 Overall Dimensions										
	H	A	B	C	D	E	F×GD	G	K	M	N	P	R	n-s	AA	AB	AC	AD	BB	HD
90S	90	140	100	56	24	50	8×7	20	10	165	130	200	4-φ12	36	176	175	155	150	190	385
90L			125															175		410
100L	100	160	63	28	60	8×7	24	12	215	180	250	4-φ15	40	200	195	166	176	238	477	
112M			112														190		70	70
132S	132	216	89	38	80	10×8	33	265	230	300	4-φ19	60	275	260	190	200	311	552		
132M			178													238		592		
160M	160	254	210	108	42	12×8	37	15	300	250	350	4-φ19	70	324	314	250	270	381	663	
160L			254														314		707	
180M	180	279	241	121	48	14×9	42.5	19	400	350	450	8-φ19	80	484	485	317	440	784		
180L			279													355		814		
200L	200	318	305	133	55	16×10	49	350	300	400	0	388	397	369	480	860				
225S	225	356	286	149	60	18×11	53	19	400	350	450	8-φ19	75	431	446	378	550	895		
225M			311													403		920		
250M	250	406	249	168	65	140	58	24	500	450	550	8-φ19	80	484	485	445	595	984		
280S	280	457	368	190	75	20×12	67.5	24	500	450	550	8-φ24	85	542	547	485	660	1095		
280M			419													536		1145		
315S	315	508	406	216	80	22×14	71	28	600	550	660	8-φ24	120	628	620	570	840	1300		
315M			457													680		1410		
315L			508			170										680				
355M	355	610	560	254	95	25×14	86	740	680	800	8-φ28	116	726	698	750	1000	1600			
355L			630												750					
400L	400	686	710	280	110	210	28×16	100	35	940	880	1000	8-φ28	150	855	840	910	1050	1940	

## ■ 订货须知

订货时请注明电机型号、额定功率、额定电压、额定频率、安装型式及安装尺寸。

若对电机极数、电压等级、功率、调速特性、绝缘等级防护型式、安装尺寸等有特殊要求，请在订货时说明，另行商议。

## ■ Notice on Order

When placing order, please specify the type, rated output, rated voltage, rated frequency, mounting arrangement and dimensions of the motor.

If you have special request to Motor, of poles, degree of voltage, power, class of insulation, type of protection mounting dimensions, etc it is necessary to state clearly and consult with us when placing order.