



# YVF2 系列变频调速专用三相异步电动机

## YVF2 SERIES FREQUENCY VARIABLE SPEED REGULATION MOTOR



机座号 80~315

功率 0.55~200kW

基准频率 50Hz

绝缘等级 F

变频范围 ( 3 ) 5~ 100Hz

基准极数 4P

**适用于：**冶金、化工、纺织、制药、印刷、包装、食品等行业的机械，风机、泵类、输送线自动化设备及机床（如数控机床、加工中心）等领域。

**Applications:** various operation systems by which speed-regulation is needed, such as metallurgy, chemistry, textile, pumps, machine tool, etc.

**Features:**

- Stepless adjustable speed operation in a wide range
- Good performance of the system, energy saving
- High-grade insulation material and special technological withstand high frequency pulse impact
- Separate fan for forced-ventilation

**特点：**

- 无级调速、调速范围宽
- 系统调速性能好、节能效果显著
- 采用耐高频脉冲电压冲击的绝缘材料和工艺
- 独立风机强制通风冷却

### 性能数据 Performance Data

synchronous speed is 1500r/min at 50Hz

型号 Type	功率 kW	额定电流 Current A	额定转矩 Rated Torque N·m	恒转矩调频范围 Constant Torque Frequency Range Hz	恒功率调频范围 Constant Output Frequency Range Hz
YVF2-80M1-4	0.55	1.6	3.8	5~50	50~100
YVF2-80M2-4	0.75	2.0	5.2		
YVF2-90S-4	1.1	2.9	7.5		
YVF2-90L-4	1.5	3.7	10		
YVF2-100L1-4	2.2	5.2	14.9		
YVF2-100L2-4	3	6.8	20		
YVF2-112M-4	4	8.8	26.5		
YVF2-132S-4	5.5	11.8	36.5		
YVF2-132M-4	7.5	15.6	50		
YVF2-160M-4	11	22.3	72		
YVF2-160L-4	15	30.1	98		
YVF2-180M-4	18.5	36.1	120		
YVF2-180L-4	22	42.7	143		
YVF2-200L-4	30	57.6	195		
YVF2-225S-4	37	69.9	240		
YVF2-225M-4	45	84.7	291		
YVF2-250M-4	55	103	355	3~50	
YVF2-280S-4	75	140	484		
YVF2-280M-4	90	167	580		

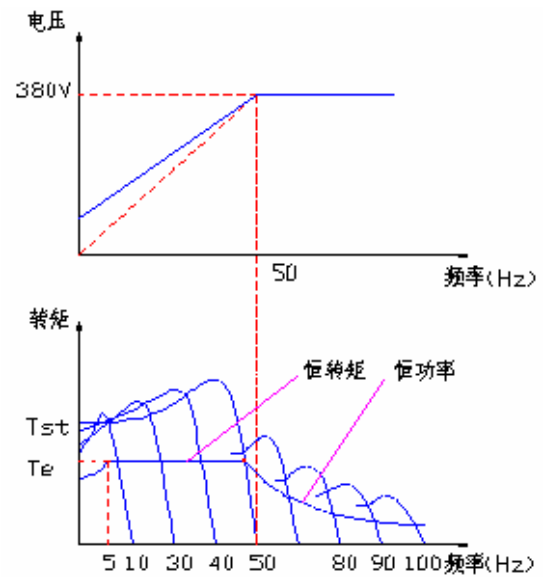


型号 Type	功率 kW	额定电流 Current A	额定转矩 Rated Torque N·m	恒转矩调频范围 Constant Torque Frequency Range Hz	恒功率调频范围 Constant Output Frequency Range Hz
YVF2-315S-4	110	201	710	3~50	50~100
YVF2-315M-4	132	240	852		
YVF2-315L1-4	160	288	1032		
YVF2-315L2-4	200	359	1290		

### 采用 V/f 控制的转矩特性

The torque characteristic under the condition of V/f control  
采用 V/f 控制恒转矩输出时，须采用电压补偿方式，以增大低频力矩。

The voltage needs to be compensated to increase the torque  
at low frequency when the motor is operated under the  
condition of V/f control with constant torque output.



### 与变频电机配套的部件参数

Specifications of cooling blower and brake for the motor

电机	机座号 Frame	80	90	100	112	132	160	180	200	225	250	280	315
冷却风机 Cooling Fan	功率 (W) Power	60 (10)*	60 (25)*	60 (25)*	60 (25)*	40	40	230	230	230	230	370	500
	电压 Voltage	单相 220V 或三相 220V, 380V 1-PH 220V or 3-PH 220V, 380V						三相 380V 3-PH 380V					
制动器 Brake	制动力矩 (N·m) Braking Torque	7.5	15	30	40	75	150	200	300	450	-	-	-
	励磁功率 (W) Excitation Power	50	60	80	110	130	150	150	200	200	-	-	-
	励磁电压 Excitation Voltage	DC24V, AC220V, AC380V										-	-
光电编码器 Encoder	增量型编码器 Incremental Encoder												

\* 括号内为内转子轴流风机功率。The power of the internal-rotor axial flow ventilator.



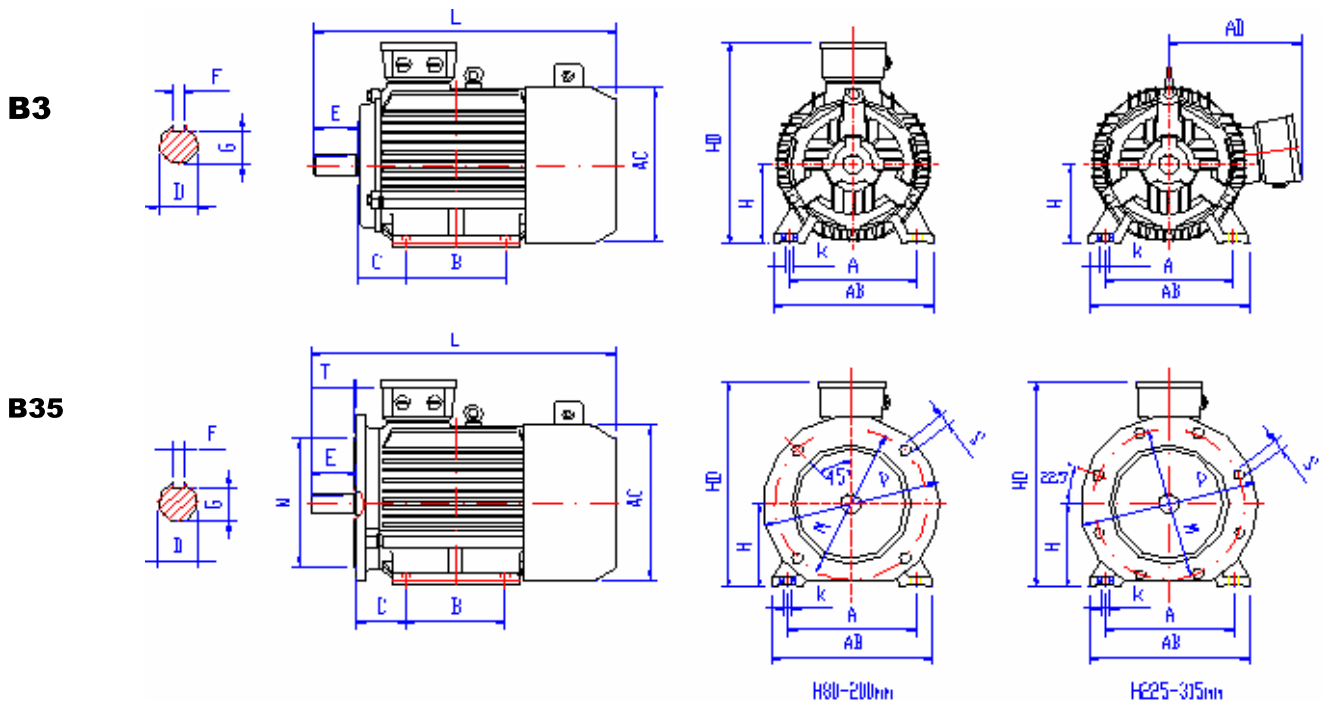
Conventional mounting type and suitable frame size are given in following table (with “√”)

机座号 Frame	基本安装结构 Basic type			派生的安装形式 Derived type								
	B3	B5	B35	V1	V3	V5	V6	B6	B7	B8	V15	V36
80~160	√	√	√	√	√	√	√	√	√	√	√	√
180~280	√	√	√	√	-	-	-	-	-	-	-	-
315	√	-	√	√	-	-	-	-	-	-	-	-

“√”表示可以制造生产的结构型式。

外形及安装尺寸 Dimensions

mm



机座号	安装尺寸 Mounting Dimensions															外形尺寸 Overall				
	A	B	C	D	E	F	G	H	M	N	P	R	S	T	K	AB	AC	AD	HD	L
80M	125	100	50	19	40	6	15.5	80	165	130	200	0	12	3.5	10	165	175	145	220	370
90S	140	100	56	24	50	8	20	90	165	130	200	0	12	3.5	10	180	195	155	250	380
90L	140	125	56	24	50	8	20	90	165	130	200	0	12	3.5	10	180	195	155	250	410
100L	160	140	63	28	60	8	24	100	215	180	250	0	15	4	12	205	215	180	270	465
112M	190	140	70	28	60	8	24	112	215	180	250	0	15	4	12	230	240	190	300	480
132S	216	140	89	38	80	10	33	132	265	230	300	0	15	4	12	270	275	210	345	530
132M	216	178	89	38	80	10	33	132	265	230	300	0	15	4	12	270	275	210	345	570
160M	254	210	108	42	110	12	37	160	300	250	350	0	19	5	15	320	330	255	420	660
160L	254	254	108	42	110	12	37	160	300	250	350	0	19	5	15	320	330	255	420	715
180M	279	241	121	48	110	14	42.5	180	300	250	350	0	19	5	15	355	380	280	455	775
180L	279	279	121	48	110	14	42.5	180	300	250	350	0	19	5	15	355	380	280	455	815

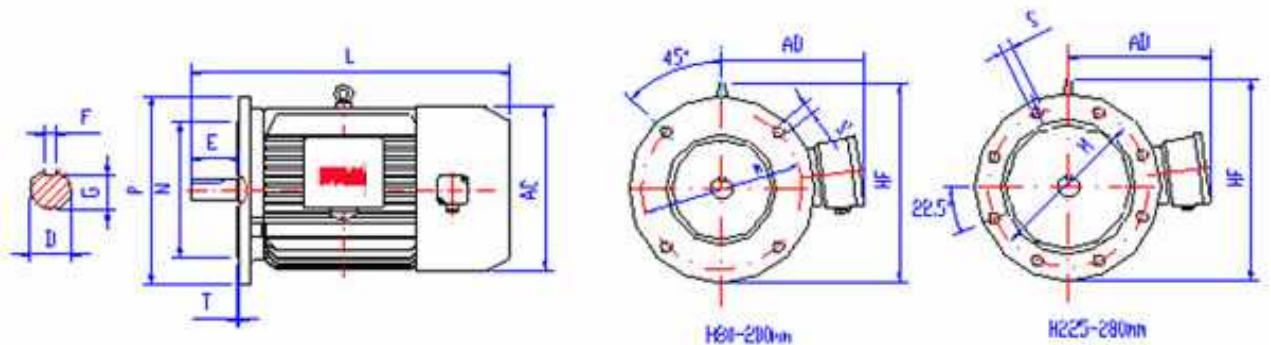


机座号	安装尺寸 Mounting Dimensions															外形尺寸 Overall				
	A	B	C	D	E	F	G	H	M	N	P	R	S	T	K	AB	AC	AD	HD	L
200L	318	305	133	55	110	16	49	200	350	300	400	0	19	5	19	395	420	305	505	850
225S	356	286	149	60	140	18	53	225	400	350	450	0	19	5	19	435	470	335	560	885
225M	356	311	149	60	140	18	53	225	400	350	450	0	19	5	19	435	470	335	560	915
250M	406	349	168	65	140	18	58	250	500	450	550	0	19	5	24	490	510	370	615	980
280S	457	368	190	75	140	20	67.5	280	500	450	550	0	19	5	24	550	580	410	680	1085
280M	457	419	190	75	140	20	67.5	280	500	450	550	0	19	5	24	550	580	410	680	1135
315S	508	406	216	80	170	22	71	315	600	550	660	0	24	6	28	635	645	530	845	1285
315M	508	457	216	80	170	22	71	315	600	550	660	0	24	6	28	635	645	530	845	1395
315L	508	508	216	80	170	22	71	315	600	550	660	0	24	6	28	635	645	530	845	1395

外形及安装尺寸 Dimensions

mm

**B5**



机座号 Frame	安装尺寸 Mounting Dimensions												外形尺寸 Overall Dimensions			
	C	D	E	F	G	H	M	N	P	R	S	T	AC	AD	HF	L
80M	50	19	40	6	15.5	80	165	130	200	0	12	3.5	175	145	185	370
90S	56	24	50	8	20	90	165	130	200	0	12	3.5	195	155	195	380
90L	56	24	50	8	20	90	165	130	200	0	12	3.5	195	155	195	410
100L	63	28	60	8	24	100	215	180	250	0	15	4	215	180	245	465
112M	70	28	60	8	24	112	215	180	250	0	15	4	240	190	265	480
132S	89	38	80	10	33	132	265	230	300	0	15	4	275	210	315	530
132M	89	38	80	10	33	132	265	230	300	0	15	4	275	210	315	570
160M	108	42	110	12	37	160	300	250	350	0	19	5	330	255	385	660
160L	108	42	110	12	37	160	300	250	350	0	19	5	330	255	385	715
180M	121	48	110	14	42.5	180	300	250	350	0	19	5	380	280	430	775
180L	121	48	110	14	42.5	180	300	250	350	0	19	5	380	280	430	815



机座号 Frame	安 装 尺 寸 Mounting Dimensions												外 形 尺 寸 Overall Dimensions			
	C	D	E	F	G	H	M	N	P	R	S	T	AC	AD	HF	L
200L	133	55	110	16	49	200	350	300	400	0	19	5	420	305	480	850
225S	149	60	140	18	53	225	400	350	450	0	19	5	470	335	535	885
225M	149	60	140	18	53	225	400	350	450	0	19	5	470	335	535	915
250M	168	65	140	18	58	250	500	450	550	0	19	5	510	370	595	980
280S	190	75	140	20	67.5	280	500	450	550	0	19	5	580	410	650	1085
280M	190	75	140	20	67.5	280	500	450	550	0	19	5	580	410	650	1135

表中外形尺寸为电机最大外形尺寸，实际情况以实物为准。

The dimensions are the maximum values. Use only certified data for construction.

- 变频电机一般选用 4 极电机。Normally the motor designed with the basic pole of 4 (i.e. the synchronous speed is 1500RPM at 50Hz).
- 可根据用户需求设计 6、8 及 2 极变频电机。Poles can also be designed with 6, 8 or 2 according to the requirement of the order.