



YVF2系列变频调速三相异步电动机

YVF2 Series Frequency Conversion Adjustable Speed Three-phase Asynchronous Motors

YVF2系列变频调速三相异步电动机

YVF2 Series Frequency Conversion Adjustable Speed Three-Phase Asynchronous Motors

本系列电动机集国内外同类产品之优点,调速范围宽、振动小、噪声低。电机采用鼠笼型结构,运行可靠,维护方便。装有独立的冷却风机,保证电机在不同转速下均有良好的冷却效果。该系列电机在 5 (3) 50Hz 运行是输出恒转矩,在 50~100Hz 运行时输出恒功率。

YVF2 系列电动机的安装尺寸和功率等级均符合 IEC 标准,对应关系与 Y 系列电动机一致,互换性、通用性强。电动机采用 F 级绝缘,外壳防护等级 IP44 或 IP54,冷却方式 IC416,连续工作制 (SI) 电动机功率在 55KW 及以下为 Y 接法,在 55KW 以上为△接法。

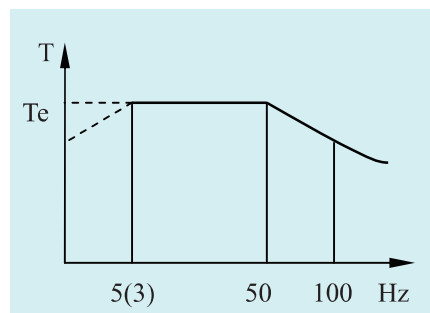
Combining the advanced technology home and abroad, YVF2 series motors possess the advantages of wide range of adjustable speed, The independent cooling fan can guarantee the good cooling effect under different speed. Running at 5(3)~50Hz, this series can run smoothly under constant torque, while at 50~100Hz it delivers constant output power.

Its installation dimensions and power rank conform to IEC standard. The corresponding relation is identical with Y Series motor, which is characterized by good interchangeability and versatility. This series motor adopts F grade insulation, Ip44 or P54 degree of covering protection, Ic416 cooling method, continuous duty (S1). For 55KW power and below, the motor are connected in y, While the above ones are connected in △.

性能数据 Performance Data

同步转速 1500r/min 50Hz

型号 Type	功率 Power (KW)	额定电流 Rated current(A)	额定转矩 Rated torque(Nm)	恒转矩调速范围 Constant torque frequency range(Hz)	恒功率调速范围 Constant power frequency range(Hz)
YVF2 80M1-4	0.55	1.6	3.5	5~50	50~100
YVF2 80M2-4	0.75	2.0	4.7		
YVF2 90S-4	1.1	2.9	7.0		
YVF2 90L-4	1.5	3.7	9.5		
YVF2 100L1-4	2.2	5.2	14.0		
YVF2 100L2-4	3	6.8	19.0		
YVF2 112M-4	4	9.2	25.4		
YVF2 132S-4	5.5	11.8	35.0		
YVF2 132M-4	7.5	15.6	47.7		
YVF2 160M-4	11	22.3	70.0		
YVF2 160L-4	15	30.1	95.5		
YVF2 180M-4	18.5	36.5	117.1		
YVF2 180L-4	22	43.4	140.9		
YVF2 200L-4	30	57.6	190.9		
YVF2 225S-4	37	69.6	235.5		
YVF2 225M-4	45	84.7	286.4		
YVF2 250M-4	55	103	350.1	3~50	
YVF2 280S-4	75	140	477.4		
YVF2 280M-4	90	167	572.9		
YVF2 315S-4	110	201	700.2		
YVF2 315M-4	132	241	840.3		
YVF2 315L1-4	160	292	1018.5		
YVF2 315L2-4	3/4	365	1273.2		



Speed Regulation Characteristic Curve

$$\text{额定转矩 } T_e = \frac{\text{标称功率 (kW)} \times 9550}{n} (\text{N.m})$$

注: n 是电动机在 50Hz 时的转速

$$\text{RATED TORQUE } T_e = \frac{\text{Nominal power (kW)} \times 9550}{n} (\text{N.m})$$

Notice: n is speed of motor at 50Hz

安装结构形式 Installation Structure Pattern

机座号 Frame	基本安装结构 Basic Installation structure			派生的安装形式 Derivative installation pattern								
	B3	B5	B35	V1	V3	V5	V6	B6	B7	B8	V15	V36
80~160	√	√	√	√	√	√	√	√	√	√	√	√
180~280	√	√	√	√	—	—	—	—	—	—	—	—
315	√	—	√	√	—	—	—	—	—	—	—	—

注: “√”表示可以制造生产的结构型式。可根据用户需求,设计 6、8 极变频电动机。

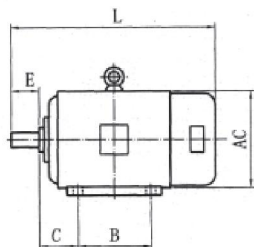
Note: “√” means the type the company can produce. It can design 6, 8 poles and frequency conversion motors according to consumer's requirements

低压三相异步电动机

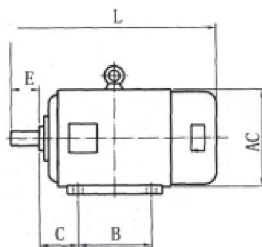
Low-voltage Three-phase Induction Motors

外形及安装尺寸

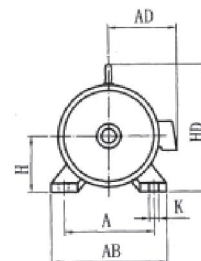
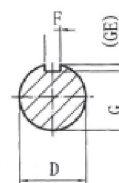
IMB3



H80~132



H160~315



机座号	安装尺寸 Installation dimensions									外形尺寸 External dimensions				
Frame No.	A	B	C	D	E	F	G	H	K	AB	AC	AD	HD	L
80M	125	100	50	19	40	6	15.5	80	10	165	175	145	220	370
90S	140	100	56	24	50	8	20	90	10	180	195	155	250	380
90L	140	125	56	24	50	8	20	90	10	180	195	155	250	410
100L	160	140	63	28	60	8	24	100	12	205	215	180	270	465
112M	190	140	70	28	60	8	24	112	12	230	240	190	300	480
132S	216	140	89	38	80	10	33	132	12	270	275	210	345	530
132M	216	178	89	38	80	10	33	132	12	270	275	210	345	570
160M	254	210	108	42	110	12	37	160	15	320	330	255	420	660
160L	254	254	108	42	110	12	37	160	15	320	330	255	420	715
180M	279	241	121	48	110	14	42.5	180	15	355	380	280	455	775
180L	279	279	121	48	110	14	42.5	180	15	355	380	280	455	815
200L	318	305	133	55	110	16	49	200	19	395	420	305	505	850
225S	356	286	149	60	140	18	53	225	19	435	470	335	560	885
225M	356	311	149	60	140	18	53	225	19	435	470	335	560	915
250M	406	349	168	65	140	18	58	250	24	490	510	370	615	980
280S	457	368	190	75	140	20	67.5	280	24	550	580	410	680	1085
280M	457	419	190	75	140	20	67.5	280	24	550	580	410	680	1135
315S	508	406	216	80	170	22	71	315	28	635	645	530	845	1285
315M	508	457	216	80	170	22	71	315	28	635	645	530	845	1395
315L	508	508	216	80	170	22	71	315	28	635	645	530	845	1395

与变频电机配套的部件

Parts parameters matching with frequency conversion motors

电机 Motor	机座号 Frame No.	80	90	100	112	132	160	180	200	225	250	280	315
冷却风机 Cooling fan	功率 (w) Power	35	50	65	65	90	90	100	150	200	320	370	570
	电压 Voltage	三相 380V 3-PH 380V											
光电编码器 Photoelectric encoder	增量型编码器 Incremental encoder												

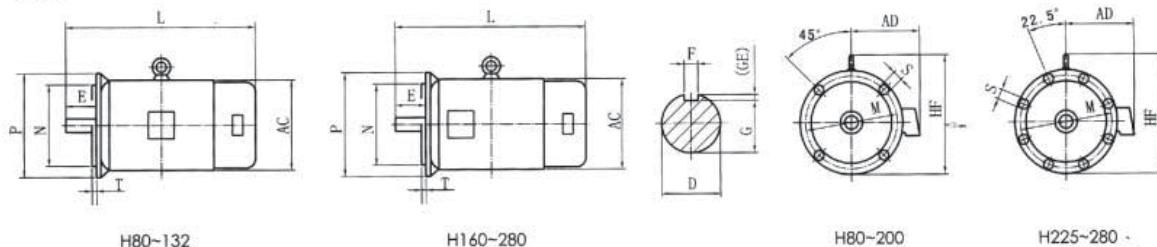


YVF2系列变频调速三相异步电动机

YVF2 Series Frequency Conversion Adjustable Speed Three-phase Asynchronous Motors

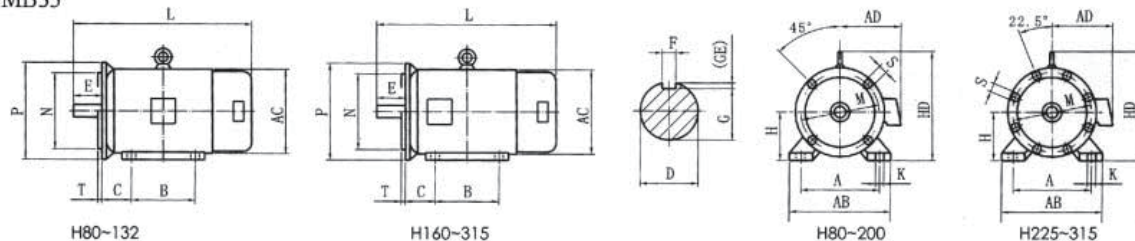
外形及安装尺寸

IMB5



机座号	安装尺寸 Installation dimensions										外形尺寸 External dimensions			
Frame No.	D	E	F	G	H	M	N	P	S	T	AC	AD	HE	L
80M	19	40	6	15.5	80	165	130	200	12	3.5	175	145	185	370
90S	24	50	8	20	90	165	130	200	12	3.5	195	155	195	380
90L	24	50	8	20	90	165	130	200	12	3.5	195	155	195	410
100L	28	60	8	24	100	215	180	250	15	4	215	180	245	465
112M	28	60	8	24	112	215	180	250	15	4	240	190	265	480
132S	38	80	10	33	132	265	230	300	15	4	275	210	315	530
132M	38	80	10	33	132	265	230	300	15	4	275	210	315	570
160M	42	110	12	37	160	300	250	350	19	5	330	255	385	660
160L	42	110	12	37	160	300	250	350	19	5	330	255	385	715
180M	48	110	14	42.5	180	300	250	350	19	5	380	280	430	775
180L	48	110	14	42.5	180	300	250	350	19	5	380	280	430	815
200L	55	110	16	49	200	350	300	400	19	5	420	305	480	850
225S	60	140	18	53	225	400	350	450	19	5	470	335	535	885
225M	60	140	18	53	225	400	350	450	19	5	470	335	535	915
250M	65	140	18	58	250	500	450	550	19	5	510	370	595	980
280S	75	140	20	67.5	280	500	450	550	19	5	580	410	650	1085
280M	75	140	20	67.5	280	500	450	550	19	5	580	410	650	1135

IMB35



它的外形及安装尺寸参照 B3 与 B5，其中凸缘部分参照 B5，机座部分参照 B3。

Its external dimensions and installation dimensions refer to B3 and B5, and the part or flange refers to B5, the part of frame refers to B3.

表中外形尺寸为电机最大外形尺寸，实际情况以实物为准。

External Dimensions In The Table Are The Maximum Size. The Actual Conditions Are Subject To Real Object.

低压三相异步电动机

Low-voltage Three-phase Induction Motors