Beide series other low–voltage AC asynchronous motors

Catalog

Siemens Standard Motor Ltd.

Company Profile

Siemens Standard Motors Ltd.

Siemens Standard Motors Ltd. (SSML) is a Siemens-owned company in China. With an area of 133,400 square meters, SSML is located in Yizheng City, Jiangsu Province. The company focuses on developing and producing small and medium low-voltage motors. Currently, SSML mainly produce Siemens brand low voltage AC motors according to IEC standards, and Beide brand low voltage motors designed according to China local standards.

As one of Siemens main low-voltage motor production facilities worldwide, SSML uses the knowledge and experience of more than 100 years in motor design and manufacturing, and implement comprehensive quality control according to ISO9001 2008. SSML will continuously serve customers with high quality products and good service.

Company Profile

Quality Guideline

- Quality starts with me, Do it right in the first time.
- Encourage our employee to address problem openly and take responsibility.
- Refuse to accept defective product.
- Continuously improve our process to exceed customer's expectation.

Environmental Guideline

EHS Policy of Siemens Standard Motors Ltd. is as follows:

- We institute and implement a continuously improving management system addressing our environment, occupational health and safety in compliance with the requirements of ISO14001:2004 and OHSAS18001:2007 criteria.
- We commit ourselves to abiding by the environmental, occupational health and safety laws and regulations, and fulfilling our duties in environmental protecting and occupational health safeguarding.
- We commit ourselves to the fulfillment of our social responsibility and obligation, properly harnessing resources, protecting our environment, enhancing occupational health and safety management with the ultimate goal of zero harm in our production process.

Contents

YVF2 Series Variable Speed Motors

Rated output：0.55 ~ 315 kW

Frame Size：80 ~ 355

Rated voltage：380 V

Cooling method：IC416

Protection degree：IP55

Insulation class：F

Coolant temperature：-15 ~ 40 ℃

Site altitude：Up to 1000 m above sea level

Introduction

YVF2 Series Variable Speed Motors are AC high efficiency, energy saving motors. It can be configured with the frequency converter from domastic and abroad. It has the characteristics with reliable operation and easy maintenance. Separate axial-flow ventilator is installed, which can guarantee a better cooling effect in different speed.

YVF2 series motors can be widely applied to the equipment which need speed control in light industry, textile, chemical, metallurgy and machine tool industries etc.

Construction and mounting type

Construction type	With feet and without flange on the end-shield (DE)					
Mounting type	IM B3 FS[3] 80 ~ 355	IM B6 FS 80 ~ 160	IM B7 FS80 ~ 160	IM B8 FS 80 ~ 160	IM V5 [1] FS 80 ~ 160	IM V6 [2] FS 80 ~ 160
Diagram						

Construction type	Without feet and with flange on the end-shield (DE)			With feet and with flange on the end-shield (DE)		
Mounting type	IM B5 FS 80 ~ 280	IM V1 [1] FS 80 ~ 355	IM V3 [2] FS 80 ~ 160	IM B35 FS 80 ~ 355	IM V15 [1] FS 80 ~ 160	IM V35 [2] FS 80 ~ 160
Diagram						

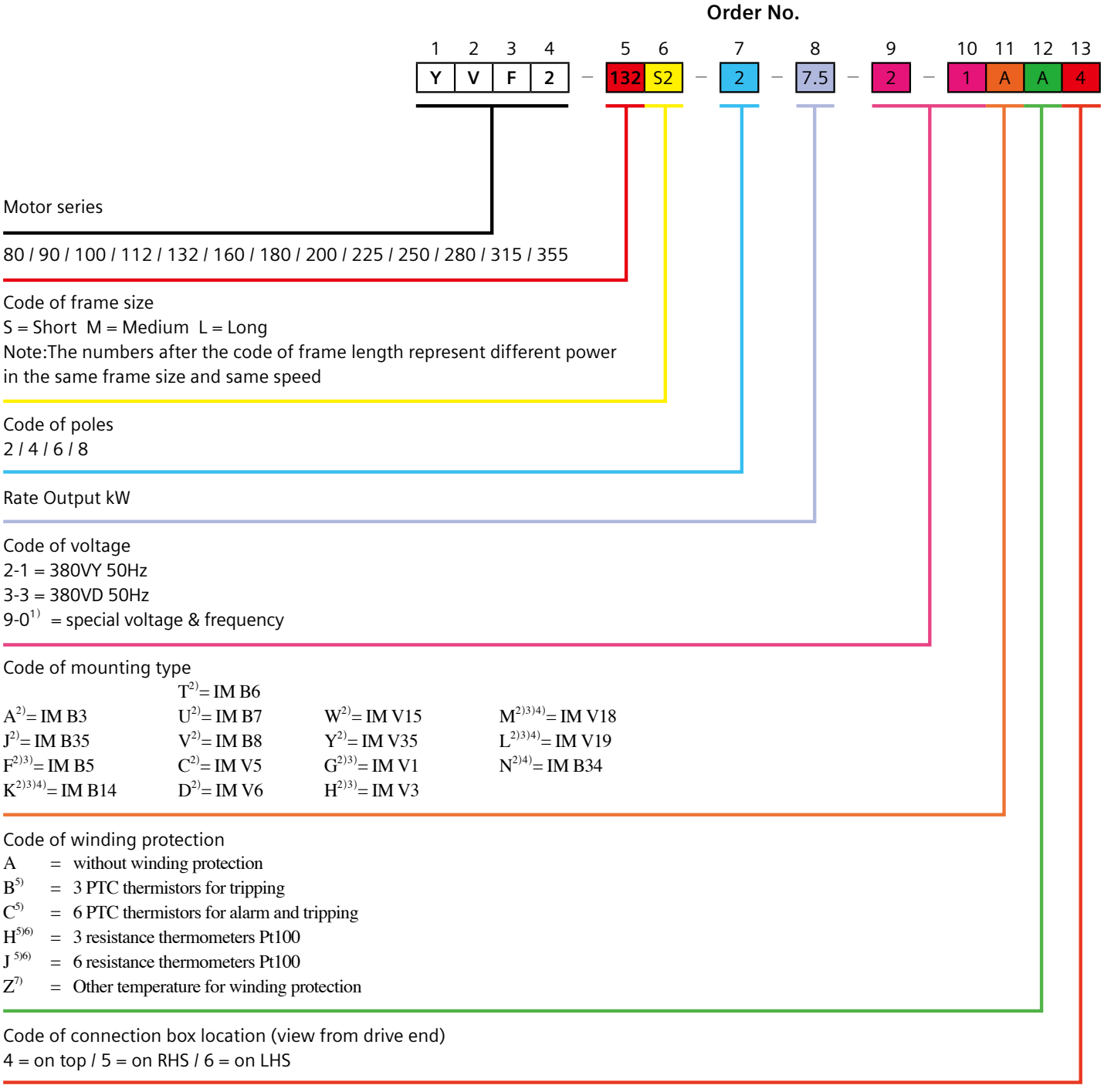
Construction type	Without feet and with C-flange on the end-shield (DE)			With feet and with C-flange on the end-shield (DE)
Mounting type	IM B14 FS 80 ~ 112	IM V18 [1] FS 80 ~ 112	IM V19 [2] FS 80 ~ 112	IM B34 FS80 ~ 112
Diagram				

[1] Motor with protective cover

[2] At out door application the protection of shaft again jet-water is recommended

[3] FS-frame size

Order No. example:

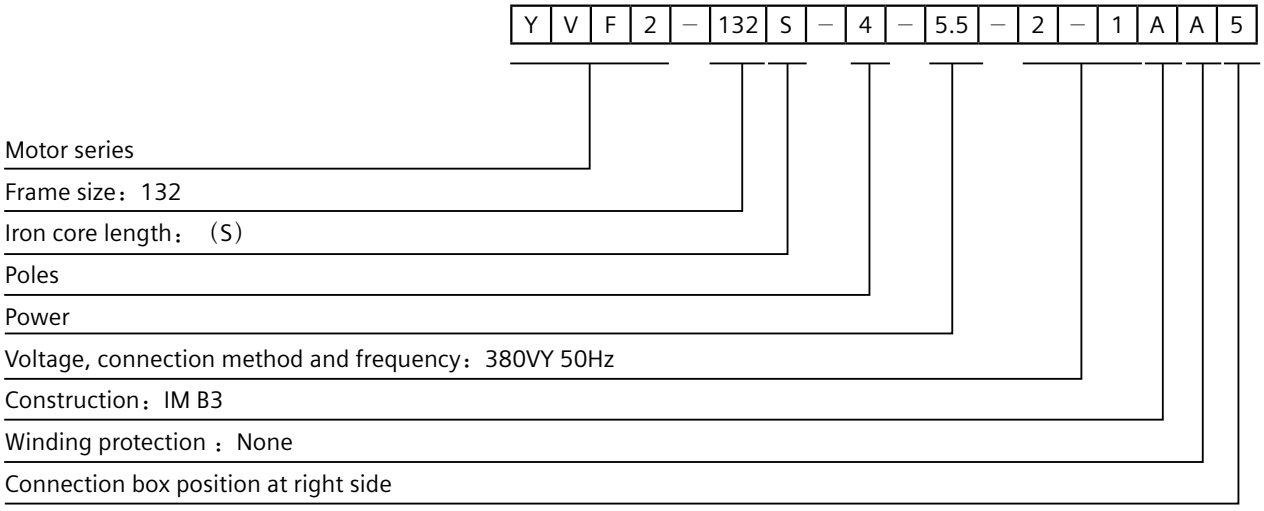


Foot notes：

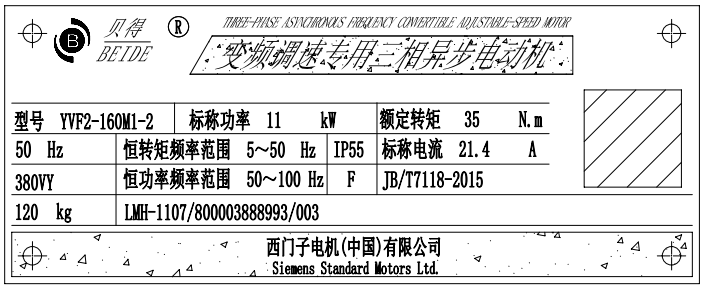
1) Order other voltages with voltage code 90 and the corresponding Option code (see under "Option") .
2) The type of mounting construction is stamped on the rating plate.
3) For motor with IM B5, IM V1, IM V3, IM B14, IM V18 and IM V19 construction and mounting type, the 16th digit of motor order No. must be "4";
4) Only for FS80 ~ 112.
5) Choose this option, the connection box will be changed to cast iron.
6) Only applicable for frame size 100-355.
7) Please specially consult with Siemens.

Order No. example:

Variable Speed Motors
4 pole, 5.5 kW, IM B3, 380VY 50 Hz, IP55,
connection box at right side and cable entry at bottom (view from DE)
Motor order code: YVF2-132S-4-5.5-2-1AA5



Nameplate example



Bearing system

YVF2 series motors are supplied with the ball bearing as standard. These bearings are either of the sealed or regreasable type.

For FS80 ~ 160, the floating bearings are assembled; for FS180 ~ 355, floating bearing at DE, and fixed bearing at NDE assembled.

Bearing Assignment

Frame size	Pole	DE bearing	NDE bearing (Horizontal mounting)	NDE bearing (Horizontal mounting)
80	2、4、6	6204 2RZ C3	6204 2RZ C3	6204 2RZ C3
90	2、4、6	6205 2RZ C3	6205 2RZ C3	6205 2RZ C3
100	2、4、6	6206 2RZ C3	6206 2RZ C3	6206 2RZ C3
112	2、4、6	6206 2RZ C3	6206 2RZ C3	6206 2RZ C3
132	2、4、6、8	6208 2RZ C3	6208 2RZ C3	6208 2RZ C3
160	2、4、6、8	6309 2RZ C3	6209 2RZ C3	6209 2RZ C3
180	2、4、6、8	6310 C3	6210 C3	6210 C3
200	2、4、6、8	6312 C3	6212 C3	6212 C3
225	2、4、6、8	6313 C3	6213 C3	6213 C3
250	2、4、6、8	6314 C3	6215 C3	7215 AC
280	2、4、6、8	6317 C3	6217 C3	7217 AC
315	2	6319 C3	6317 C3	7317 AC
	4、6、8	6319 C3	6319 C3	7319 AC
355	2	6319 C3	6319 C3	7319 AC
	4、6、8	6322 C3	6322 C3	7322 AC

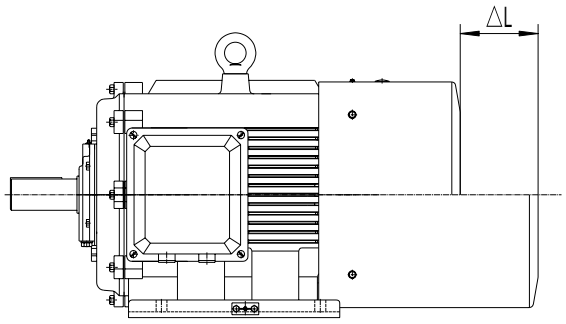
Frame size、Pole & Frequency Table

Frame size	Pole	Constant Torque	Constant Power
FS80~180	2P	3~50	50~100
FS200~355			50~60
FS80~315	4P		50~100
FS355			50~75
FS80~FS355	6P		50~100
FS80~FS355	8P		

Connection boxes technical data

Frame size	Contact screw thread	Outer cable diameter (sealing range)	Cable entry size
80 ~ 100	M4	10～14	M24 x 1.5
112 ~ 132	M5	13～18	M27 x 2 + M27 x 2
160 ~ 180	M5	18～25	M36 x 2 + M36 x 2
200 ~ 225	M8	22～32	M48 x 2 + M48 x 2
250	M10	37～44	M64 x 2 + M64 x 2
280	M10		
315	M12		
355	M16	45～52	M72 x 2 + M72 x 2

Technical data for separately fan



Motor frame size	rated voltage	Rated frequency	Rated output	Current	Speed	ΔL
80	220D/380Y	50	30	0.14/0.08	2800	60
90	220D/380Y	50	30	0.14/0.08	2800	75
100	220D/380Y	50	52	0.21/0.12	2800	70
112	220D/380Y	50	52	0.21/0.12	2800	80
132	220D/380Y	50	45	0.35/0.2	1400	75
160	220D/380Y	50	45	0.35/0.2	1400	45
180	220D/380Y	50	120	1.04/0.6	1400	55
200	220D/380Y	50	120	1.04/0.6	1400	60
225	220D/380Y	50	120	1.04/0.6	1400	70
250	220D/380Y	50	230	1.73/1.0	1400	65
280	220D/380Y	50	300	1.8/1.2	1400	105
315	220D/380Y	50	1100	4.33/2.5	1350	145
355	220D/380Y	50	1100	4.33/2.5	1350	150

Note: The fan can be running with supply 210 ~ 240VD/360 ~ 420VY 50Hz, and also 220 ~ 260VD/380 ~ 480VY 60Hz. Other voltage supply, possible on request.

Technical data

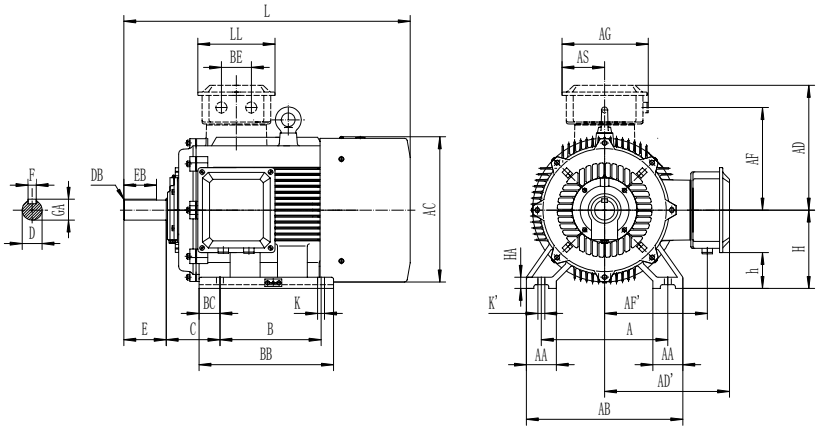
Power (kW)	Type	Rated torque (N.m)	Current (A)	Weight (kG)	Type	Rated torque (N.m)	Current (A)	Weight (kG)	Power of suited converter (kW)
0.55					YVF2-80M1-4	3.5	1.61	14.0	1
0.75	YVF2-80M1-2	2.4	1.9	13.5	YVF2-80M2-4	4.8	2.1	15.5	1
1.1	YVF2-80M2-2	3.5	2.7	15.0	YVF2-90S-4	7	2.9	20	2
1.5	YVF2-90S-2	4.8	3.5	19.0	YVF2-90L-4	9.5	3.8	23	2
2.2	YVF2-90L-2	7	4.95	23	YVF2-100L1-4	14	5.2	30	3
3	YVF2-100L-2	9.5	6.4	30	YVF2-100L2-4	19.1	6.9	33	4
4	YVF2-112M-2	12.7	8.3	37	YVF2-112M-4	25.5	9	42	6
5.5	YVF2-132S1-2	17.5	11.2	54	YVF2-132S-4	35	12	58	10
7.5	YVF2-132S2-2	23.9	14.9	59	YVF2-132M-4	47.7	16	72	10
11	YVF2-160M1-2	35	21.5	103	YVF2-160M-4	70	23	113	15
15	YVF2-160M2-2	47.7	29	113	YVF2-160L-4	97.8	29.5	129	20
18.5	YVF2-160L-2	58.9	35.5	131	YVF2-180M-4	118	37	178	30
22	YVF2-180M-2	70	42	175	YVF2-180L-4	140	43.5	200	30
30	YVF2-200L1-2	95.5	56	251	YVF2-200L-4	191	59	255	40
37	YVF2-200L2-2	118	69	261	YVF2-225S-4	236	72	299	50
45	YVF2-225M-2	143	84	305	YVF2-225M-4	287	87	325	60
55	YVF2-250M-2	175	102	410	YVF2-250M-4	350	106	420	70
75	YVF2-280S-2	239	138	510	YVF2-280S-4	478	141	545	100
90	YVF2-280M-2	287	165	580	YVF2-280M-4	573	167	650	120
110	YVF2-315S-2	350	199	795	YVF2-315S-4	700	205	815	150
132	YVF2-315M-2	420	240	950	YVF2-315M-4	840	245	1050	180
160	YVF2-315L1-2	509	285	1040	YVF2-315L1-4	1019	300	1085	210
185	YVF2-315L-2	589	330	1148	YVF2-315L-4	1180	345	1120	220
200	YVF2-315L2-2	637	355	1158	YVF2-315L2-4	1273	365	1185	270
220	YVF2-355M1-2	704	390	1490	YVF2-355M1-4	1401	405	1670	280
250	YVF2-355M2-2	796	445	1490	YVF2-355M2-4	1592	460	1670	350
280	YVF2-355L1-2	896	495	1620	YVF2-355L1-4	1783	510	1700	400
315	YVF2-355L-2	1003	560	1670	YVF2-355L2-4	2005	580	1790	450

Technical data

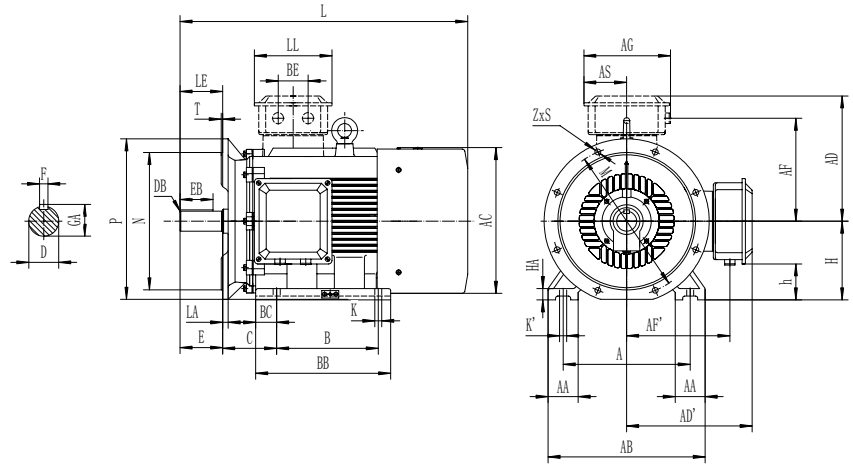
Power (kW)	Type	Rated torque (N.m)	Current (A)	Weight (kG)	Type	Rated torque (N.m)	Current (A)	Weight (kG)	Power of suited converter (kW)
0.55	YVF2-80M2-6	5.3	1.66	16.0					1
0.75	YVF2-90S-6	7.2	2.25	20					1
1.1	YVF2-90L-6	10.5	3.2	24					2
1.5	YVF2-100L-6	14.3	4.2	31					2
2.2	YVF2-112M-6	21	6	41	YVF2-132S-8	28	7.5	72	3
3	YVF2-132S-6	28.6	7.9	54	YVF2-132M-8	38.2	9.9	70	4
4	YVF2-132M1-6	38.2	10.1	65	YVF2-160M1-8	51	11.6	105	6
5.5	YVF2-132M2-6	52.5	13.4	73	YVF2-160M2-8	70	15.1	103	10
7.5	YVF2-160M-6	71.6	17.2	115	YVF2-160L-8	95.5	20.5	127	10
11	YVF2-160L-6	105	24.5	145	YVF2-180L-8	140	26	163	15
15	YVF2-180L-6	143	31.5	183	YVF2-200L-8	191	34	233	20
18.5	YVF2-200L1-6	177	39.5	235	YVF2-225S-8	236	42	246	30
22	YVF2-200L2-6	210	46.5	252	YVF2-225M-8	280	50	286	30
30	YVF2-225M-6	287	62	320	YVF2-250M-8	382	64	355	40
37	YVF2-250M-6	353	75	400	YVF2-280S-8	471	84	427	50
45	YVF2-280S-6	430	88	483	YVF2-280M-8	573	97	485	60
55	YVF2-280M-6	525	106	550	YVF2-315S-8	700	115	665	70
75	YVF2-315S-6	716	146	790	YVF2-315M-8	955	156	845	100
90	YVF2-315M-6	859	173	950	YVF2-315L1-8	1146	182	890	120
110	YVF2-315L1-6	1050	210	1085	YVF2-315L2-8	1401	220	1040	150
132	YVF2-315L2-6	1261	250	1125	YVF2-355M1-8	1681	265	1530	180
160	YVF2-355M1-6	1528	300	1770	YVF2-355M2-8	2037	325	1650	210
185	YVF2-355M2-6	1767	350	1770	YVF2-355L1-8	2356	365	1820	220
200	YVF2-355M3-6	1910	375	1810	YVF2-355L2-8	2547	395	1930	270
220	YVF2-355L1-6	2101	415	1980					280
250	YVF2-355L2-6	2387	470	2010					350

Dimensions of mounting and outline

Type of construction IM B3

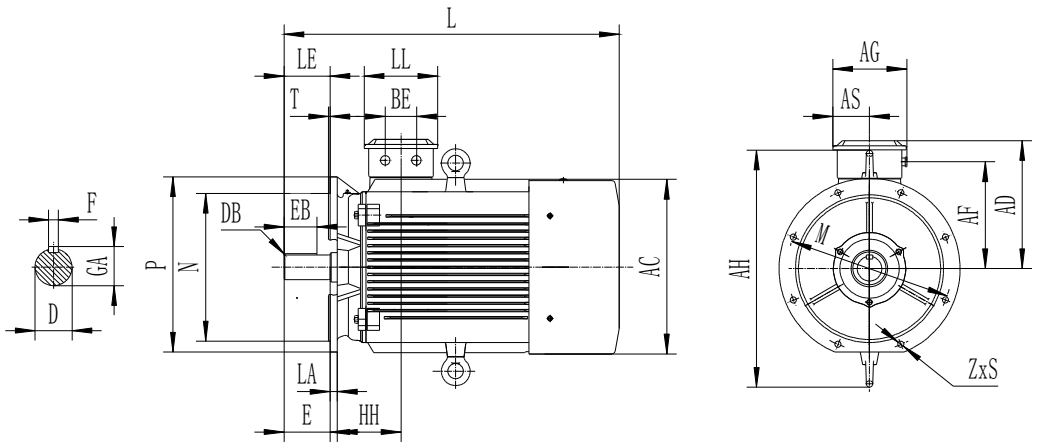


Type of construction IM B35

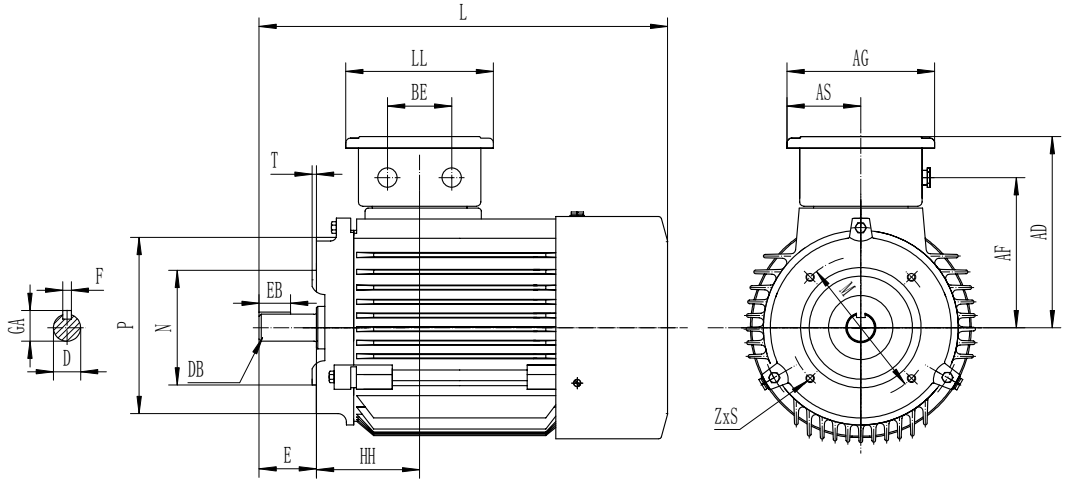


Frame size	Type YVF2-	pols	Dimension designation according to IEC standards									
			A	AA	AB	AC[1)]	AD / AD'	AF / AF'	AG	AH	AS	B[2)]
80 M	80M1-□ 80M2-□	2,4, 6	125 125	34 34	160 160	161 161	145 145	107 107	130 130	- -	52 52	100 100
90 S 90 L	90S-□ 90L-□	2, 4, 6	140 140	36 36	180 180	175 175	160 160	116 116	135 135	- -	55 55	100 125
100 L	100L-2 100L1-4 100L-6 100L2-4	2 4 6 4	160 160	40 40	200 200	196 196	165 165	129 129	135 135	- -	55 55	140 140
112 M	112M-□	2, 4, 6	190	45	226	217	193	145	152	-	64	140
132 S 132 M	132S1-2 132S-□ 132S2-2 132M-4 132M1-6 132M-8 132M2-6	2, 4, 6, 8 2 4 6 8 6	216 216 216 216	55 55 55 55	262 262 262 262	258 258 258 258	203 203 203 203	166 166 166 166	152 152 152 152	- - - -	64 64 64 64	140 140 178 178
160 M 160 L	160M1-2 160M-4 160M-6 160M1-8 160M2-□ 160L-□	2 4 6 8 2, 8 2, 4, 6 8	254 254 254	65 65 65	314 314 314	311 311 311	255 255 255	207 207 207	195 195 195	480 480 480	83 83 83	210 210 254

Type of construction IM B5 and IM V1



Type of construction IM B14



Dimension designation according to IEC standards											DE shaft extensiion					
BB	BC	BE	C	H	h	HA	HH	K / K'	L	LL	D	DB	E	EB	F	GA
130	15	-	50	80	29	10	72	10	350	103	19	M6	40	22	6	21.5
130	15	-	50	80	29	10	72	10	350	103	19	M6	40	22	6	21.5
140	20	-	56	90	35	12	75	10	395	110	24	M8	50	32	8	27
165	20	-	56	90	35	12	75	10	420	110	24	M8	50	32	8	27
188	24	-	63	100	45	14	77	12	455	110	28	M10	60	40	8	31
188	24	-	63	100	45	14	77	12	455	110	28	M10	60	40	8	31
180	20	42	70	112	48	15	87	12	480	119	28	M10	60	40	8	31
186	23	42	89	132	68	18	99	12	545	119	38	M12	80	56	10	41
186	23	42	89	132	68	18	99	12	545	119	38	M12	80	56	10	41
224	23	42	89	132	68	18	99	12	585	119	38	M12	80	56	10	41
224	23	42	89	132	68	18	99	12	585	119	38	M12	80	56	10	41
260	25	60	108	160	77	20	150	15	660	157	42	M16	110	80	12	45
260	25	60	108	160	77	20	150	15	660	157	42	M16	110	80	12	45
320	25	60	108	160	77	20	150	15	720	157	42	M16	110	80	12	45
304									705							

Dimensions of mounting and outline

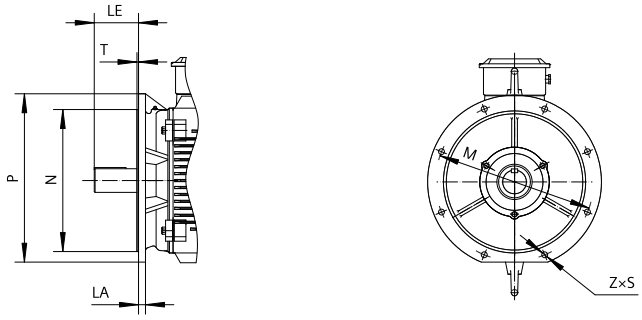
Frame size	Type YVF2-	pols	Dimension designation according to IEC standards									
			A	AA	AB	AC[1)]	AD / AD'	AF / AF'	AG	AH	AS	B[2)]
180M	180M-□	2,4	279	70	349	356	275	223	195	515	83	241
180L	180L-□	4,6	279	70	349	356	275	223	195	515	83	279
		8										
200L	200L1-2	2	318	70	388	398	310	248	255	575	107	305
	200L-4	4										
	200L1-6	6										
	200L2-2	2	318	70	388	398	310	248	255	575	107	305
	200L2-6	6										
	200L-8	8										
225S	225S-4	4	356	75	431	428	325	257	255	605	107	286
	225S-8	8										
225M	225M-2	2	356	75	431	428	325	257	255	605	107	311
	225M-□	4, 6	356	75	431	428	325	257	255	605	107	311
	225M-8	8	356	75	431	428	325	257	255	605	107	311
250M	250M-2	2	406	80	484	475	360	292	285	670	124	349
	250M-□	4, 6	406	80	484	475	360	292	285	670	124	349
	250M-8	8										
280S	280S-2	2	457	85	542	530	395	322	285	755	124	368
	280S-□	4, 6	457	85	542	530	395	322	285	755	124	368
	280S-8	8										
280M	280M-2	2	457	85	542	530	395	322	285	755	124	419
	280M-□	4, 6	457	85	542	530	395	322	285	755	124	419
	280M-8	8	457	85	542	530	395	322	285	755	124	419
315S	315S-2	2	508	120	628	581	505	413	370	920	171	406
	315S-□	4,6										
	315S-8	8	508	120	628	581	505	413	370	920	171	406
315M	315M-2	2	508	120	628	581	505	413	370	920	171	457/508
	315M-□	4, 6										
	315M-8	8	508	120	628	581	505	413	370	920	171	457/508
315L	315L1-2	2	508	120	628	581	505	413	370	920	171	457/508
	315L-2	2										
	315L2-2	2										
	315L1-4	4	508	120	628	581	505	413	370	920	171	457/508
	315L-4	4										
	315L2-4	4										
	315L1-6	6										
	315L2-6	6										
	315L1-8	8	508	120	628	581	505	413	370	920	171	457/508
	315L2-8	8										
355M	355M1-2	2	610	120	730	698	625	517	454	1145	181	560/630
	355M1-□	4,6,8	610	120	730	698	625	517	454	1145	181	560/630
	355M2-2	2	610	120	730	698	625	517	454	1145	181	560/630
	355M2-□	4,6										
	355M2-8	8	610	120	730	698	625	517	454	1145	181	560/630
	355M3-6	6	610	120	730	698	625	517	454	1145	181	560/630
355L	355L1-2	2	610	120	730	698	625	517	454	1145	181	560/630
	355L1-□	4, 6										
	355L1-8	8	610	120	730	698	625	517	454	1145	181	560/630
	355L-2	2	610	120	730	698	625	517	454	1145	181	560/630
	355L2-□	4, 6	610	120	730	698	625	517	454	1145	181	560/630
	355L2-8	8										

Dimension designation according to IEC standards											DE shaft extensiion					
BB	BC	BE	C	H	h	HA	HH	K / K'	L	LL	D	DB	E	EB	F	GA
345	35	60	121	180	97	22	161	15	785	157	48	M16	110	80	14	51.5
385	35	60	121	180	97	22	161	15	825	157	48	M16	110	80	14	51.5
344									785							
412	32	72	133	200	94	25	186	19	880	194	55	M20	110	80	16	59
412	32	72	133	200	94	25	186	19	880	194	55	M20	110	80	16	59
379									845							
366	45	72	149	225	119	28	189	19	880	194	60	M20	140	100	18	64
									880							
405	45	72	149	225	119	28	189	19	905	194	55	M20	110	80	16	59
405	45	72	149	225	119	28	189	19	935	194	60	M20	140	100	18	64
391	45	72	149	225	119	28	189	19	905	194	60	M20	140	100	18	64
460	40	80	168	250	126	30	222	24	1020	224	60	M20	140	100	18	64
460	40	80	168	250	126	30	222	24	1020	224	65	M20	140	100	18	69
425									970							
485	74	80	190	280	156	35	216	24	1090	224	65	M20	140	100	18	69
485	74	80	190	280	156	35	216	24	1090	224	75	M20	140	100	20	79
									1075							
536	74	80	190	280	156	35	216	24	1140	224	65	M20	140	100	18	69
536	74	80	190	280	156	35	216	24	1140	224	75	M20	140	100	20	79
536	74	80	190	280	156	35	216	24	1125	224	75	M20	140	100	20	79
540	84	120	216	315	155	45	257	28	1320	280	65	M20	140	100	18	69
									1350		80		170	130	22	85
540	84	120	216	315	155	45	257	28	1300	280	80	M20	170	130	22	85
680	84	120	216	315	155	45	257	28	1550	280	65	M20	140	100	18	69
									1580		80		170	130	22	85
680	84	120	216	315	155	45	257	28	1480	280	80	M20	170	130	22	85
680	84	120	216	315	155	45	257	28	1550	280	65	M20	140	100	18	69
680	84	120	216	315	155	45	257	28	1580	280	80	M20	170	130	22	85
680	84	120	216	315	155	45	257	28	1480	280	80	M20	170	130	22	85
750	68	125	254	355	136	53	281	28	1640	400	75	M20	140	125	20	79.5
750	68	125	254	355	136	53	281	28	1670	400	95	M24	170	140	25	100
750	68	125	254	355	136	53	281	28	1640	400	75	M20	140	125	20	79.5
									1670		95	M24	170	140	25	100
750	68	125	254	355	136	53	281	28	1670	400	95	M24	170	140	25	100
750	68	125	254	355	136	53	281	28	1670	400	95	M24	170	140	25	100
750	68	125	254	355	136	53	281	28	1640	400	75	M20	140	125	20	79.5
									1670		95	M24	170	140	25	100
750	68	125	254	355	136	53	281	28	1670	400	95	M24	170	140	25	100
750	68	125	254	355	136	53	281	28	1640	400	75	M20	140	125	20	79.5
750	68	125	254	355	136	53	281	28	1670	400	95	M24	170	140	25	100

Dimensions of mounting and outline

Flange dimension

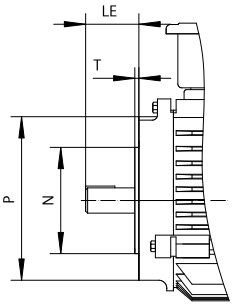
Type of construction IM B5, IM B35, IM V1, IM V3

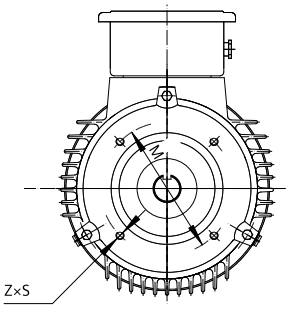


Frame size	Type of construction	Flange with through holes (FF/A) / tapped holes (FT/C)
		According to DIN EN 50347
80	IM B5, IM B35, IMV1, IM V3 IM B14, IM V18, IM V19	FF 165 FT 100
90	IM B5, IM B35, IMV1, IM V3 IM B14, IM V18, IM V19	FF 165 FT 115
100	IM B5, IM B35, IMV1, IM V3 IM B14, IM V18, IM V19	FF 215 FT 130
112	IM B5, IM B35, IMV1, IM V3 IM B14, IM V18, IM V19	FF 215 FT 130
132	IM B5, IM B35, IMV1, IM V3	FF 265
160	IM B5, IM B35, IMV1, IM V3	FF 300
180	IM B5, IM B35, IMV1, IM V3	FF 300
200	IM B5, IM B35, IMV1, IM V3	FF 350
225	IM B5, IM B35, IMV1, IM V3	FF 400
250	IM B5, IM B35, IMV1, IM V3	FF 500
280	IM B5, IM B35, IMV1, IM V3	FF 500
315	IM B5, IM B35, IMV1, IM V3	FF 600
355	IM B5, IM B35, IMV1, IM V3	FF 740

Flange dimension

Type of construction IM B14, IM V18, IM V19





	Dimension designation according to IEC standards							
	LA	LE	M	N	P	S	T	Z
	12	40	165	130	200	12	3.5	4
	–	40	100	80	120	M 6	3	4
	12	50	165	130	200	12	3.5	4
	–	50	115	95	140	M 8	3	4
	13	60	215	180	250	14.5	4	4
	–	60	130	110	160	M 8	3.5	4
	14	60	215	180	250	14.5	4	4
	–	60	130	110	160	M 8	3.5	4
	14	80	265	230	300	14.5	4	4
	14	110	300	250	350	18.5	5	4
	15	110	300	250	350	18.5	5	4
	17	110	350	300	400	18.5	5	4
	20	110 / 140	400	350	450	18.5	5	8
	22	140	500	450	550	18.5	5	8
	22	140	500	450	550	18.5	5	8
	22	140 / 170	600	550	660	24	6	8
	25	140 / 170	740	680	800	24	6	8

Standard Options – YVF2

Option Code	Option Code	Application Scope
Q5A	Installation of 2 PT 100 screw-in resistance thermometers (basic circuit) for rolling-contact bearings	FS180~355
Q04[1)]	Anti-condensation heater for 220V	FS80~355
R10[2)]	Rotation of terminal box by 90 ° , inserted from drive end	FS80~355
R11[3)]	Rotation of terminal box by 90 ° , inserted from non-drive end	FS80~355
R12	Rotation of terminal box by 180 °	FS80~355
M12	English Nameplate	FS80~355
P80[4)]	Round flange	FS80~315
X77	Turning flange	FS80~315
S01	Unpainted	FS80~355
L80	SKF bearings	FS80~355
W02	NSK bearings	FS80~355
H00	Motor with protection cover	FS80~355

[1)] When choose these options, the connection boxes will be changed to cast iron shell

[2)] Not applicable to the FS80~100 flange mounted motors

[3)] Not applicable to the outlet on top

[4)] Not applicable to the FS180、200、225 and 280 motors, these motors include the full circle flange

YD Series Change-Poles Multi-Speed Asynchronous Motors

Frame size：80 ~ 280

Rated voltage：380 V

Rated frequency：50 Hz

Cooling method：IC411

Protection degree：IP44

Insulation class：B

Coolant temperature：-15 ~ 40 ℃

Site altitude：Up to 1000 m above sea level

Introduction

YD series pole-changing multi-speed three-phase asynchronous motors can apply to various transmission mechanism which need control speed step by step.

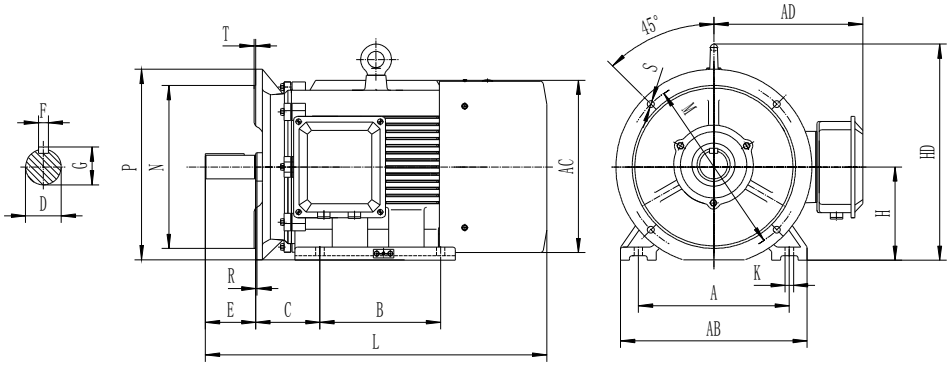
Mounting type

Diagram												
Mounting type（IM）	B3	B5	B35	V1	V3	V5	V6	B6	B7	B8	V15	V36
Motor size	80 ~ 280	80 ~ 225	80 ~ 280	80 ~ 280	80 ~ 160							

Specification table

Type	Synchronous speed（r/min）			
	1500/3000	1000/1500	750/1500	500/1000
	poles			
	4/2	6/4	8/4	12/6
	Power（kW）			
YD801	0.45/0.55			
YD802	0.55/0.75			
YD90S	0.85/1.1	0.65/0.85		
YD90L	1.3/1.8	0.85/1.1	0.45/0.75	
YD100L1	2/2.4	1.3/1.8	0.85/1.5	
YD100L2	2.4/3	1.5/2.2		
YD112M	3.3/4	2.2/2.8	1.5/2.4	
YD132S	4.5/5.5	3/4	2.2/3.3	
YD132M1	6.5/8	4/5.5	3/4.5	
YD132M2				
YD160M	9/11	6.5/8	5/7.5	2.6/5
YD160L	11/14	9/11	7/11	3.7/7
YD180M	15/18.5	11/14		
YD180L	18.5/22	13/16	11/17	5.5/10
YD200L1	26/30	18.5/22	14/22	7.5/13
YD200L2			17/26	9/15
YD225S	32/37	22/28		
YD225M	37/45	26/32	24/34	12/20
YD250M	45/52	32/42	30/42	15/24
YD280S		42/55	40/55	20/30
YD280M		55/67	47/67	24/37

Dimensions of mounting and Outline



Note:

1. The drawing is B35 type. There have housing feet and flange on end shield.
2. B3 type motors have frame feet but no flange, the dimensions have no M、N、P、R、S、T。
3. B5 type motors have flange but no frame feet, the dimensions have no A、B、C、AB。
4. There are eight symmetrical distributed holes for flange mounting on the FS225 ~ 355 motors.
5. R is the distance from the flange to the drive shaft end.

Motor size	Mounting Dimensions															Outline Dimensions				
	H	A	B	C	D	E	F	G	K	M	N	P	R	S	T	AB	AC	AD	HD	L
80	80	125	100	50	19	40	6	15.5	10	165	130	200	0	12	3.5	165	175	150	175	290
90S	90	140	100	56	24	50	8	20	10	165	130	200	0	12	3.5	180	195	160	195	315
90L	90	140	125	56	24	50	8	20	10	165	130	200	0	12	3.5	180	195	160	195	340
100L	100	160	140	63	28	60	8	24	12	215	180	250	0	15	4	205	215	180	245	380
112M	112	190	140	70	28	60	8	24	12	215	180	250	0	15	4	245	240	190	265	400
132S	132	216	140	89	38	80	10	33	12	265	230	300	0	15	4	280	275	210	315	475
132M	132	216	178	89	38	80	10	33	12	265	230	300	0	15	4	280	275	210	315	515
160M	160	254	210	108	42	110	12	37	15	300	250	350	0	19	5	330	335	265	385	610
160L	160	254	254	108	42	110	12	37	15	300	250	350	0	19	5	330	335	265	385	655
180M	180	279	241	121	48	110	14	42.5	15	300	250	350	0	19	5	355	380	285	430	670
180L	180	279	279	121	48	110	14	42.5	15	300	250	350	0	19	5	355	380	285	430	710
200L	200	318	305	133	55	110	16	49	19	350	300	400	0	19	5	395	420	315	475	775
225S	225	356	286	149	60	140	18	53	19	400	350	450	0	19	5	435	475	345	530	820
225M	225	356	311	149	60	140	18	53	19	400	350	450	0	19	5	435	475	345	530	845
250M	250	406	349	168	65	140	18	58	24	500	450	550	0	19	5	490	515	385	575	930
280S	280	457	368	190	75	140	20	67.5	24	500	450	550	0	19	5	550	585	410	640	1000
280M	280	457	419	190	75	140	20	67.5	24	500	450	550	0	19	5	550	585	410	640	1050

Certificates


环境管理体系认证证书

西门子电机（中国）有限公司

建立的环境管理体系符合标准：

GB/T 24001-2016 / ISO 14001:2015

通过认证范围如下：

中国质量认证中心


质量管理体系认证证书

西门子电机（中国）有限公司

建立的质量管理体系符合标准：

GB/T 19001-2016 / ISO 9001:2015

通过认证范围如下：

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