WNM
皖南电机

YE4 Series Ultra- High Efficiency Three Phase Induction Motors

➢ General Description

- Frame sizes: 80 to 355 Rated output: 0.37 to 400kW
- Voltage: 380V Frequency: 50Hz or 60Hz
- Poles: 2, 4, 6,8 Efficiency levels: IE4
- Duty Cycle: S1 Enclosure: IC411 - TEFC
- Insulation class: F Degree of protection: IP55

Applications: Can be applied in the machines where continuous duty is required, like pumps, fans, machine etc.

Features: Beautiful profile, high efficiency and energy saving (Level 2 of GB18613-2020), class F insulation, IP55 protection grade, low noise, little vibration, reliable running.

➢ Performance Data

380V 50Hz

Model	Output kW	FLA	RPM	Eff.%	Power Factor	FLT N.m	LRT / FLT / Tst / T_N	LRA / FLA / Ist / I_N	BDT / FLT / Tmax / T_N	dB(A)
Synchronous speed 3000 r/min										
YE4-80M1-2	0.75	1.6	2895	84.9	0.83	2.5	2.2	7.0	2.3	62
YE4-80M2-2	1.1	2.3	2885	86.7	0.83	3.7	2.2	7.3	2.3	62
YE4-90S-2	1.5	3.1	2880	87.5	0.84	5.0	2.2	7.6	2.3	67
YE4-90L-2	2.2	4.4	2875	89.1	0.85	7.3	2.2	7.6	2.3	67
YE4-100L-2	3	5.8	2905	89.7	0.87	9.9	2.2	7.8	2.3	74
YE4-112M-2	4	7.6	2920	90.3	0.88	13.1	2.2	8.3	2.3	77
YE4-132S1-2	5.5	10.4	2945	91.5	0.88	17.8	2.0	8.3	2.3	79
YE4-132S2-2	7.5	14.1	2940	92.1	0.88	24.4	2.0	7.9	2.3	79
YE4-160M1-2	11	20.2	2965	93.0	0.89	35.4	2.0	8.1	2.3	81
YE4-160M2-2	15	27.4	2965	93.4	0.89	48.3	2.0	8.1	2.3	81
YE4-160L-2	18.5	33.7	2965	93.8	0.89	59.6	2.0	8.2	2.3	81
YE4-180M-2	22	39.8	2970	94.4	0.89	70.7	2.0	8.2	2.3	83
YE4-200L1-2	30	54.2	2960	94.5	0.89	96.8	2.0	7.6	2.3	84
YE4-200L2-2	37	66.6	2960	94.8	0.89	119	2.0	7.6	2.3	84
YE4-225M-2	45	79.9	2970	95.1	0.90	144.7	2.0	7.7	2.3	86
YE4-250M-2	55	97.3	2975	95.4	0.90	177	2.0	7.7	2.3	89
YE4-280S-2	75	132	2980	95.6	0.90	240	1.8	7.1	2.3	91
YE4-280M-2	90	159	2975	95.8	0.90	289	1.8	7.1	2.3	91
YE4-315S-2	110	193	2985	96.0	0.90	352	1.8	7.1	2.3	92
YE4-315M-2	132	232	2985	96.0	0.90	422	1.8	7.1	2.3	92

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Performance Data 380V 50Hz

Model	Output kW	FLA	RPM	Eff.%	Power Factor	FLT N.m	LRT / FLT / Tst / T_N	LRA / FLA / Ist / I_N	BDT / FLT / Tmax / T_N	dB(A)
Synchronous speed 3000 r/min										
YE4-315L1-2	160	278	2985	96.2	0.91	512	1.8	7.2	2.3	92
YE4-315L-2	185	321	2985	96.2	0.91	592	1.8	7.2	2.3	92
YE4-315L2-2	200	347	2985	96.3	0.91	640	1.8	7.2	2.2	92
YE4-315L3-2	220	381	2985	96.3	0.91	704	1.8	7.2	2.2	92
YE4-315L4-2	250	433	2985	96.4	0.91	800	1.6	7.2	2.2	92
YE4-355M1-2	220	381	2985	96.3	0.91	704	1.8	7.2	2.2	100
YE4-355M-2	250	433	2985	96.4	0.91	800	1.6	7.2	2.2	100
YE4-355L1-2	280	485	2985	96.4	0.91	896	1.6	7.2	2.2	100
YE4-355L-2	315	545	2985	96.5	0.91	1008	1.6	7.2	2.2	100
YE4-355 1-2	355	614	2985	96.6	0.91	1136	1.6	7.2	2.2	104
YE4-355 2-2	375	648	2985	96.6	0.91	1200	1.6	7.2	2.2	104
Synchronous speed 1500 r/min										
YE4-80M1-4	0.55	1.3	1435	83.8	0.75	3.7	2.3	6.5	2.3	56
YE4-80M2-4	0.75	1.8	1440	85.6	0.75	5.0	2.3	6.6	2.3	56
YE4-90S-4	1.1	2.5	1445	87.4	0.76	7.3	2.3	6.8	2.3	59
YE4-90L-4	1.5	3.4	1440	88.1	0.77	9.9	2.3	7.0	2.3	59
YE4-100L1-4	2.2	4.6	1455	89.7	0.81	14.4	2.3	7.6	2.3	64
YE4-100L2-4	3	6.2	1455	90.3	0.82	19.7	2.3	7.6	2.3	64
YE4-112M-4	4	8.2	1460	90.9	0.82	26.2	2.2	7.8	2.3	65
YE4-132S-4	5.5	10.9	1475	92.1	0.83	35.6	2.0	7.9	2.3	71
YE4-132M-4	7.5	14.7	1470	92.6	0.84	48.7	2.0	7.5	2.3	71
YE4-160M-4	11	21.0	1470	93.6	0.85	71.5	2.0	7.7	2.3	73
YE4-160L-4	15	28.2	1470	94.0	0.86	97.4	2.0	7.8	2.3	73
YE4-180M-4	18.5	34.7	1475	94.3	0.86	120	2.0	7.8	2.3	76
YE4-180L-4	22	41.0	1475	94.7	0.86	142	2.0	7.8	2.3	76
YE4-200L-4	30	55.8	1480	95.0	0.86	194	2.0	7.3	2.3	76
YE4-225S-4	37	68.6	1485	95.3	0.86	238	2.0	7.4	2.3	78
YE4-225M-4	45	83.2	1485	95.6	0.86	289	2.0	7.4	2.3	78
YE4-250M-4	55	101	1485	95.8	0.86	354	2.0	7.4	2.3	79
YE4-280S-4	75	135	1490	96.0	0.88	481	2.0	6.7	2.3	80
YE4-280M-4	90	162	1490	96.2	0.88	577	2.0	6.9	2.3	80
YE4-315S-4	110	195	1490	96.4	0.89	705	2.0	7.0	2.2	88
YE4-315M-4	132	234	1490	96.5	0.89	846	2.0	7.0	2.2	88
YE4-315L1-4	160	283	1490	96.5	0.89	1026	2.0	7.1	2.2	88
YE4-315L-4	185	327	1490	96.5	0.89	1186	2.0	7.1	2.2	88
YE4-315L2-4	200	350	1490	96.6	0.90	1282	2.0	7.1	2.2	88
YE4-315L3-4	220	384	1490	96.6	0.90	1410	2.0	7.1	2.2	88
YE4-315L4-4	250	436	1480	96.7	0.90	1613	2.0	7.1	2.2	88
YE4-355M1-4	220	384	1490	96.6	0.90	1410	2.0	7.1	2.2	95
YE4-355M-4	250	436	1495	96.7	0.90	1597	2.0	7.1	2.2	95

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Performance Data

380V 50Hz

Model	Output kW	FLA	RPM	Eff.%	Power Factor	FLT N.m	LRT / FLT / Tst / T_N	LRA / FLA / Ist / I_N	BDT / FLT / Tmax / T_N	dB(A)
Synchronous speed 1500 r/min										
YE4-355L1-4	280	489	1495	96.7	0.90	1789	2.0	7.1	2.2	95
YE4-355L-4	315	549	1495	96.8	0.90	2012	2.0	7.1	2.2	95
YE4-3551-4	355	633	1490	96.8	0.88	2275	1.7	7.0	2.2	102
YE4-3552-4	375	669	1490	96.8	0.88	2404	1.7	7.0	2.2	102
Synchronous speed 1000 r/min										
YE4-90S-6	0.75	1.9	955	83.1	0.71	7.5	2.0	6.0	2.1	57
YE4-90L-6	1.1	2.7	955	84.1	0.73	11.0	2.0	6.0	2.1	57
YE4-100L-6	1.5	3.6	960	86.2	0.73	14.9	2.0	6.5	2.1	61
YE4-112M-6	2.2	5.2	975	87.1	0.74	21.5	2.0	6.6	2.1	65
YE4-132S-6	3	6.9	985	88.7	0.74	29.1	1.9	6.8	2.1	69
YE4-132M1-6	4	9.2	985	89.7	0.74	38.8	1.9	6.8	2.1	69
YE4-132M2-6	5.5	12.4	985	89.5	0.75	53.3	1.9	7.0	2.1	69
YE4-160M-6	7.5	16.0	980	90.2	0.79	73.1	2.0	7.0	2.1	70
YE4-160L-6	11	22.8	980	91.5	0.80	107	2.0	7.2	2.1	70
YE4-180L-6	15	30.4	990	92.5	0.81	145	1.9	7.3	2.1	73
YE4-200L1-6	18.5	37.3	980	93.1	0.81	180	1.9	7.3	2.1	73
YE4-200L2-6	22	43.9	985	93.9	0.81	213	1.9	7.4	2.1	73
YE4-225M-6	30	58.2	990	94.3	0.83	289	1.9	6.9	2.1	74
YE4-250M-6	37	70.7	990	94.6	0.84	357	1.9	7.1	2.1	76
YE4-280S-6	45	84.8	990	94.9	0.85	434	1.9	7.3	2.0	78
YE4-280M-6	55	102	990	95.2	0.86	531	1.9	7.3	2.0	78
YE4-315S-6	75	142	990	95.4	0.84	723	1.9	6.6	2.0	83
YE4-315M-6	90	168	990	95.6	0.85	868	1.9	6.7	2.0	83
YE4-315L1-6	110	206	990	95.6	0.85	1061	1.9	6.7	2.0	83
YE4-315L2-6	132	243	990	95.8	0.86	1273	1.9	6.8	2.0	83
YE4-315L3-6	160	294	990	96.0	0.86	1543	1.9	6.8	2.0	83
YE4-315L4-6	185	340	990	96.0	0.86	1785	1.9	6.8	2.0	83
YE4-355M1-6	160	294	995	96.0	0.86	1536	1.9	6.8	2.0	85
YE4-355M-6	185	340	995	96.0	0.86	1776	1.9	6.8	2.0	85
YE4-355M2-6	200	363	995	96.1	0.87	1920	1.9	6.8	2.0	85
YE4-355L1-6	220	400	995	96.1	0.87	2112	1.9	6.8	2.0	85
YE4-355L-6	250	454	995	96.1	0.87	2399	1.9	6.8	2.0	85
YE4-3551-6	280	509	995	96.1	0.87	2687	1.9	6.8	2.0	91
YE4-3552-6	315	579	995	96.1	0.86	3023	1.9	6.8	2.0	91
YE4-355L4-6	355	653	995	96.1	0.86	3407	1.9	6.8	2.0	91

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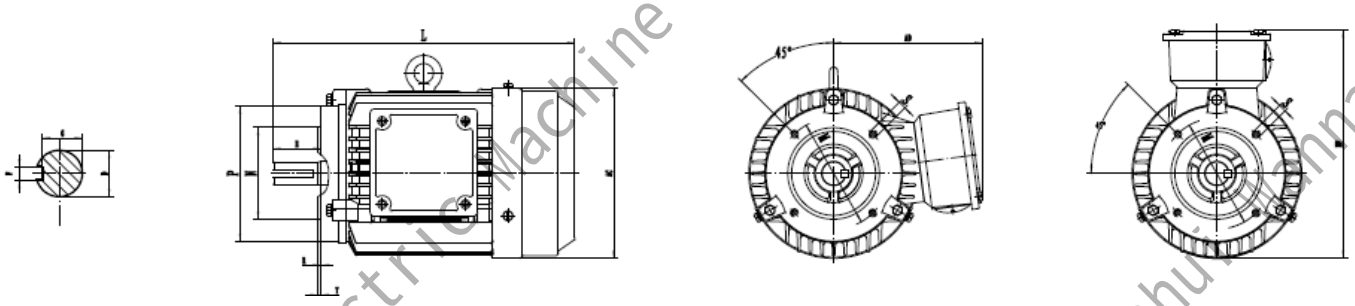
Dimensions & Mounting

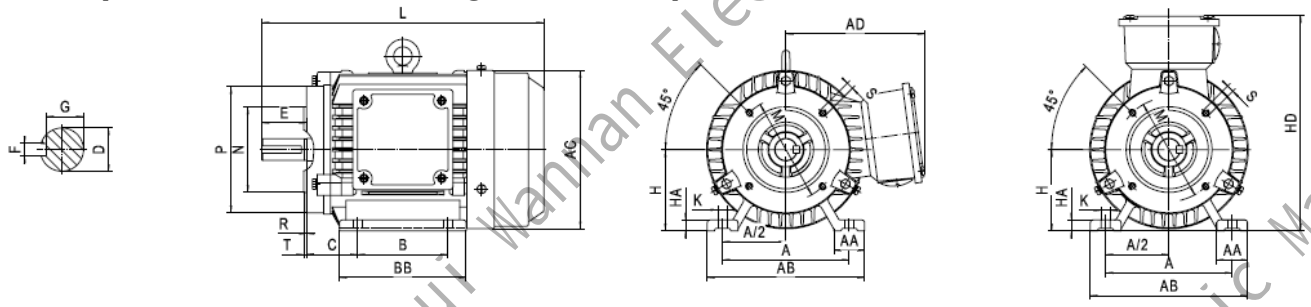
mm

B14 (Footless and Small Flange Mounted)



Frame	Poles	Mounting Dimension										Overall Dimension			
		D	E	F	G	M	N	P	R	S	T	AC	AD	HF	L
80M	2,4,6	19	40	6	15.5	100	80	120	0	4-M6	3	165	145	225	305
90S	2,4,6	24	50	8	20	115	95	140	0	4-M8	3	180	165	255	360
90L	2,4,6														385
100L	2,4,6	28	60	8	24	130	110	160	0	4-M8	3.5	205	175	275	445
112M	2, 4,6	28	60	8	24	130	110	160	0	4-M8	3.5	225	190	300	455

B34 (Foot and Small Flange Mounted)



Frame	Poles	Mounting Dimension														Overall Dimension							
		A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	AA	BB	HA	AB	AC	AD	HD	L
80M	2,4,6	125	100	50	19	40	6	15.5	80	10	100	80	120	0	4-M6	3	32	150	10	160	165	145	225	305
90S	2,4,6	140	100	56	24	50	8	20	90	10	115	95	140	0	4-M8	3	34	185	12	180	180	165	255	360
90L	2,4,6		125															210						385
100L	2,4,6	160	140	63	28	60	8	24	100	12	130	110	160	0	4-M8	3.5	39	238	14	200	205	175	275	445
112M	2, 4,6	190	140	70	28	60	8	24	112	12	130	110	160	0	4-M8	3.5	45	230	14	230	225	190	300	455

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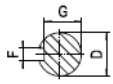
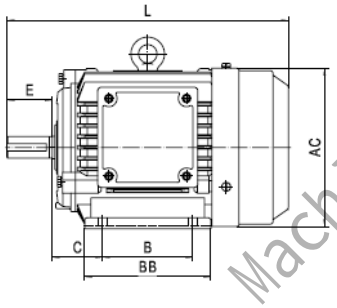
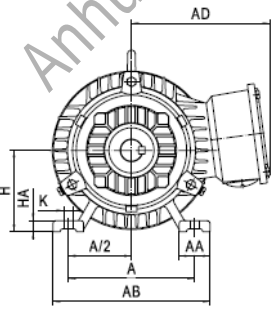
Dimensions & Mounting

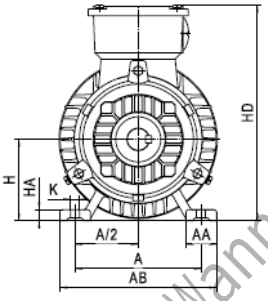
mm

B3 (Horizontal Foot Mounted Only)









Frame	Poles	Mounting Dimension									Overall Dimension							
		A	B	C	D	E	F	G	H	K	AA	BB	HA	AB	AC	AD	HD	L
80M	2,4,6	125	100	50	19	40	6	15.5	80	10	32	150	10	160	165	145	225	305
90S	2,4,6	140	100	56	24	50	8	20	90	10	34	185	12	180	180	165	255	360
90L			125									210						385
100L	2,4,6	160	140	63	28	60	8	24	100	12	39	238	14	200	205	175	275	445
112M	2,4,6	190	140	70	28	60	8	24	112	12	45	230	14	230	225	190	300	455
132S1	2	216	140	89	38	80	10	33	132	12	55	190	18	265	270	220	350	475
132S2												230						510
132S	4	216	140	89	38	80	10	33	132	12	55	230	18	265	270	220	350	510
	6											190						475
132M	2,4,6	216	178	89	38	80	10	33	132	12	55	230	18	265	270	220	350	510
160M	2,4,6	254	210	108	42	110	12	37	160	15	65	304	20	315	320	260	420	655
160L			254									334						685
180M	2,4,6	279	241	121	48	110	14	42.5	180	15	70	331	22	355	360	265	445	705
180L			279									369						745
200L	2,4,6	318	305	133	55	110	16	49	200	19	74	379	26	395	400	305	505	815
225S	4	356	286	149	60	140	18	53	225	19	78	375	28	435	450	325	550	830
225M	2		311		55	110	16	49				400						825
	4,6				60	140	18	53										855
250M	2	406	349	168	60	140	18	53	250	24	80	445	30	490	510	380	630	890
	4,6				65			58										
280S	2	457	368	190	65	140	18	58	280	24	90	485	35	545	550	395	675	975
	4,6				75		20	67.5										
280M	2		419		65		18	58				536						1025
	4,6				75		20	67.5										
315S	2	508	406	216	65	140	18	58	315	28	120	570	45	635	630	540	855	1180
	4,6				80	170	22	71										1210
315M	2		457		65	140	18	58				610						1215
	4,6				80	170	22	71										1245
315L	2		508		65	140	18	58				680						1290
	4,6				80	170	22	71										1320
355M	2	610	560	254	75	140	20	67.5	355	28	130	690	52	735	715	645	1000	1390
	4,6				95	170	25	86										1420
355L/L1	2		630		75	140	20	67.5				750						1500
	4,6				95	170	25	86										1530
355L2/ L3	2				80	170	22	71										1530
	4,6				110	210	28	100										1570

Anhui Wannan Electric Machine

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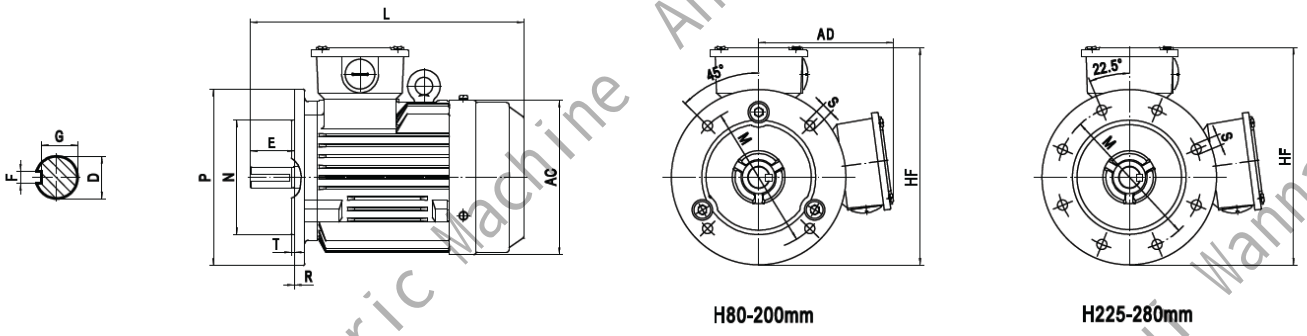
Dimensions & Mounting

mm

B5 (Footless and B5 Flange Mounted)



Frame	Poles	Mounting Dimension										Overall Dimension			
		D	E	F	G	M	N	P	R	S	T	AC	AD	HF	L
80M	2,4,6	19	40	6	15.5	165	130	200	0	4-Φ12	3.5	165	145	245	305
90S	2,4,6	24	50	8	20	165	130	200	0	4-Φ12	3.5	180	165	265	360
90L															385
100L	2,4,6	28	60	8	24	215	180	250	0	4-Φ15	4	205	175	300	445
112M	2,4,6	28	60	8	24	215	180	250	0	4-Φ15	4	225	190	315	455
132S1	2	38	80	10	33	265	230	300	0	4-Φ15	4	270	220	370	475
132S2															510
132S	4	38	80	10	33	265	230	300	0	4-Φ15	4	270	220	370	510
	6														475
132M	2,4,6	38	80	10	33	265	230	300	0	4-Φ15	4	270	220	370	510
160M	2,4,6	42	110	12	37	300	250	350	0	4-Φ19	5	320	260	435	655
160L															685
180M	2,4,6	48	110	14	42.5	300	250	350	0	4-Φ19	5	360	265	440	705
180L															745
200L	2,4,6	55	110	16	49	350	300	400	0	4-Φ19	5	400	305	505	815
225S	4	60	140	18	53	400	350	450	0	8-Φ19	5	450	325	550	830
225M	2	55	110	16	49										825
	4,6	60	140	18	53										855
250M	2	60	140	18	53	500	450	550	0	8-Φ19	5	510	380	655	890
	4,6	65			58										
280S	2	65	140	18	58	500	450	550	0	8-Φ19	5	550	395	670	975
	4,6	75		20	67.5										
280M	2	65		18	58										1025
	4,6	75		20	67.5										

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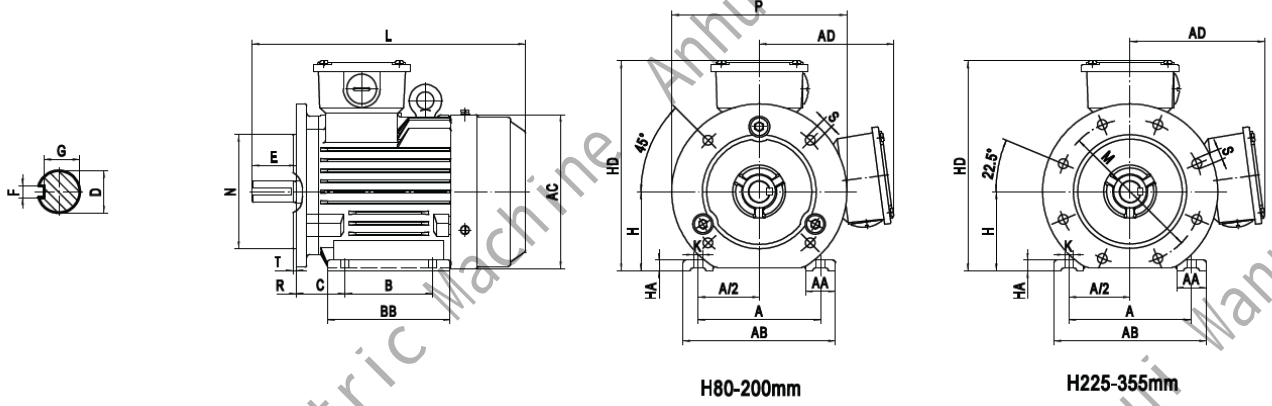
Dimensions & Mounting

mm

B35 (Foot and B5 Flange Mounted)



H80-200mm

H225-355mm

Frame	Poles	Mounting Dimension															Overall Dimension							
		A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	AA	BB	HA	AB	AC	AD	HD	L
80M	2,4,6	125	100	50	19	40	6	15.5	80	10	165	130	200	0	4-Φ12	3.5	32	150	10	160	165	145	225	305
90S	2,4,6	140	100	56	24	50	8	20	90	10	165	130	200	0	4-Φ12	3.5	34	185	12	180	180	165	255	360
90L			125															210						385
100L	2,4,6	160	140	63	28	60	8	24	100	12	215	180	250	0	4-Φ15	4	39	238	14	200	205	175	275	445
112M	2,4,6	190	140	70	28	60	8	24	112	12	215	180	250	0	4-Φ15	4	45	230		230	225	190	300	455
132S1	2	216	140	89	38	80	10	33	132	12	265	230	300	0	4-Φ15	4	55	190	18	265	270	220	350	475
132S2																		230						510
132S	4	216	140	89	30	80	10	33	132	12	265	230	300	0	4-Φ15	4	55	230	18	265	270	220	350	510
	6																	190						475
132M	2,4,6	216	178	89	30	80	10	33	132	12	265	230	300	0	4-Φ15	4	55	230	18	265	270	220	350	510
160M	2,4,6	254	210	108	42	110	12	37	160	15	300	250	350	0	4-Φ19	5	65	304	20	315	320	260	420	655
160L			254															334						685
180M	2,4,6	279	241	121	48	110	14	42.5	180	15	300	250	350	0	4-Φ19	5	70	331	22	355	360	265	445	705
180L			279															369						745
200L	2,4,6	318	305	133	55	110	16	49	200	19	350	300	400	0	4-Φ19	5	74	379	26	395	400	305	505	815
225S	4	356	286	149	60	140	18	53	225	19	400	350	450	0	8-Φ19	5	78	375	28	435	450	325	550	830
225M	2		311		55	110	16	49										400						825
	4, 6				60	140	18	53																855
250M	2	406	349	168	60	140			250	24	500	450	550	0	8-Φ19	5	80	445	30	490	510	380	630	890
	4, 6				65			58																
280S	2	457	368	190	65	140			280	24	500	450	550	0	8-Φ19	5	90	485	35	545	550	395	675	975
	4, 6				75		20	67.5																
280M	2		419		65		18	58										536						1025
	4, 6				75		20	67.5																
315S	2	508	406	216	65	140	18	58	315	28	600	550	660	0	8-Φ24	6	120	570	45	635	630	540	855	1180
	4,6				80	170	22	71																1210
315M	2		457		65	140	18	58										610						1215
	4,6				80	170	22	71																1245
315L	2		508		65	140	18	58										680						1290
	4,6				80	170	22	71																1320
355M	2	610	560	254	75	140	20	67.5	355	28	740	680	800	0	8-Φ24	6	130	690	52	735	715	645	1000	1390
	4,6				95	170	25	86																1420

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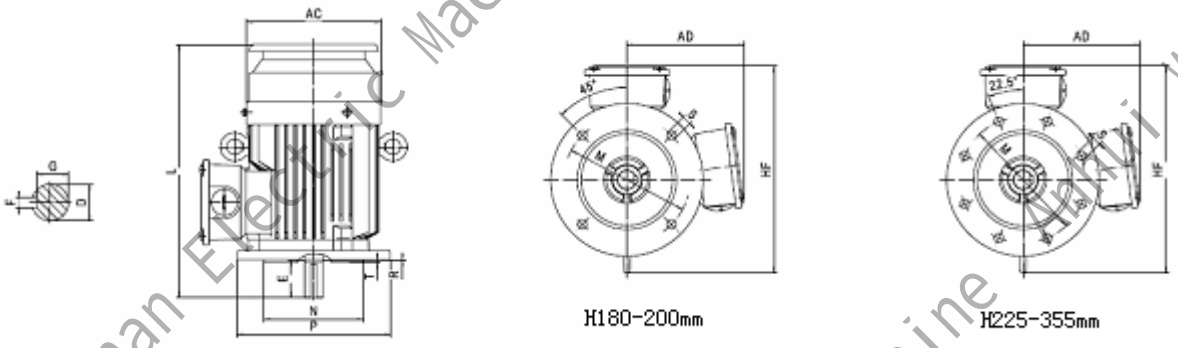
355L/L1	2	610	630	254	75	140	20	67.5	355	28	740	680	800	0	8-Φ24	6	130	750	52	735	715	645	1000	1500
	4,6				95	170	25	86																1530
355L2/	2				80	170	22	71																1530
L3	4,6				110	210	28	100																1570

Dimensions & Mounting

mm

V1 (Vertical Shaft down Footless Flange Mounted)



Frame	Poles	Mounting Dimension										Overall Dimension			
		D	E	F	G	M	N	P	R	S	T	AC	AD	HF	L
80M	2,4,6	19	40	6	15.5	165	130	200	0	4-φ12	3.5	165	145	245	315
90S	2,4,6	24	50	8	20	165	130	200	0	4-φ12	3.5	180	165	265	385
90L															435
100L	2,4,6	28	60	8	24	215	180	250	0	4-φ15	4	205	175	300	475
112M	2,4,6	28	60	8	24	215	180	250	0	4-φ15	4	225	190	315	485
132S1	2	38	80	10	33	265	230	300	0	4-φ15	4	270	220	370	510
132S2															550
132S	4	38	80	10	33	265	230	300	0	4-φ15	4	270	220	370	550
	6														510
132M	2,4,6	38	80	10	33	265	230	300	0	4-φ15	4	270	220	370	550
160M	2,4,6	42	110	12	37	300	250	350	0	4-φ19	5	320	260	435	700
160L															730
180M	2,4,6	48	110	14	42.5	300	250	350	0	4-Φ19	5	360	265	500	750
180L															795
200L	2,4,6	55	110	16	49	350	300	400	0	4-Φ19	5	400	305	570	870
225S	4	60	140	18	53	400	350	450	0	8-Φ19	5	450	325	615	890
225M	2	55	110	16	49										885
	4,6	60	140	18	53										915
250M	2	60	140	18	53	500	450	550	0	8-Φ19	5	510	380	715	955
	4,6	65			58										
280S	2	65	140	18	58	500	450	550	0	8-Φ19	5	550	395	760	1045
	4,6	75		20	67.5										
280M	2	65		18	58										1100
	4,6	75		20	67.5										
315S	2	65	140	18	58	600	550	660	0	8-Φ24	6	630	540	970	1310
	4,6,8	80	170	22	71										1340

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315M	2	65	140	18	58	600	550	660	0	8-Φ24	6	630	540	970	1345
	4,6,8	80	170	22	71										1375
315L	2	65	140	18	58										1420
	4,6,8	80	170	22	71										1450
355M	2	75	140	20	67.5	740	680	800	0	8-Φ24	6	715	645	1135	1530
	4,6,8	95	170	25	86										1560
355L/L1	2	75	140	20	67.5										1640
	4,6,8	95	170	25	86										1670
355L2/ L3	2	80	170	22	71										1670
	4,6,8	110	210	28	100										1710

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

Frame	basic type			derived type											
	B3	B5	B35	V1	V3	V5	V6	B6	B7	B8	V15	V36	B14	B34	V18
63～112	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
132～160	√	√	√	√	√	√	√	√	√	√	√	√	-	-	-
180～280	√	√	√	√	-	-	-	-	-	-	-	-	-	-	-
315～355	√	-	√	√	-	-	-	-	-	-	-	-	-	-	-

If there is no other request in the order or agreement, terminal box position at the right side of the frame is regarded as standard； data above may be changed without prior notice.

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