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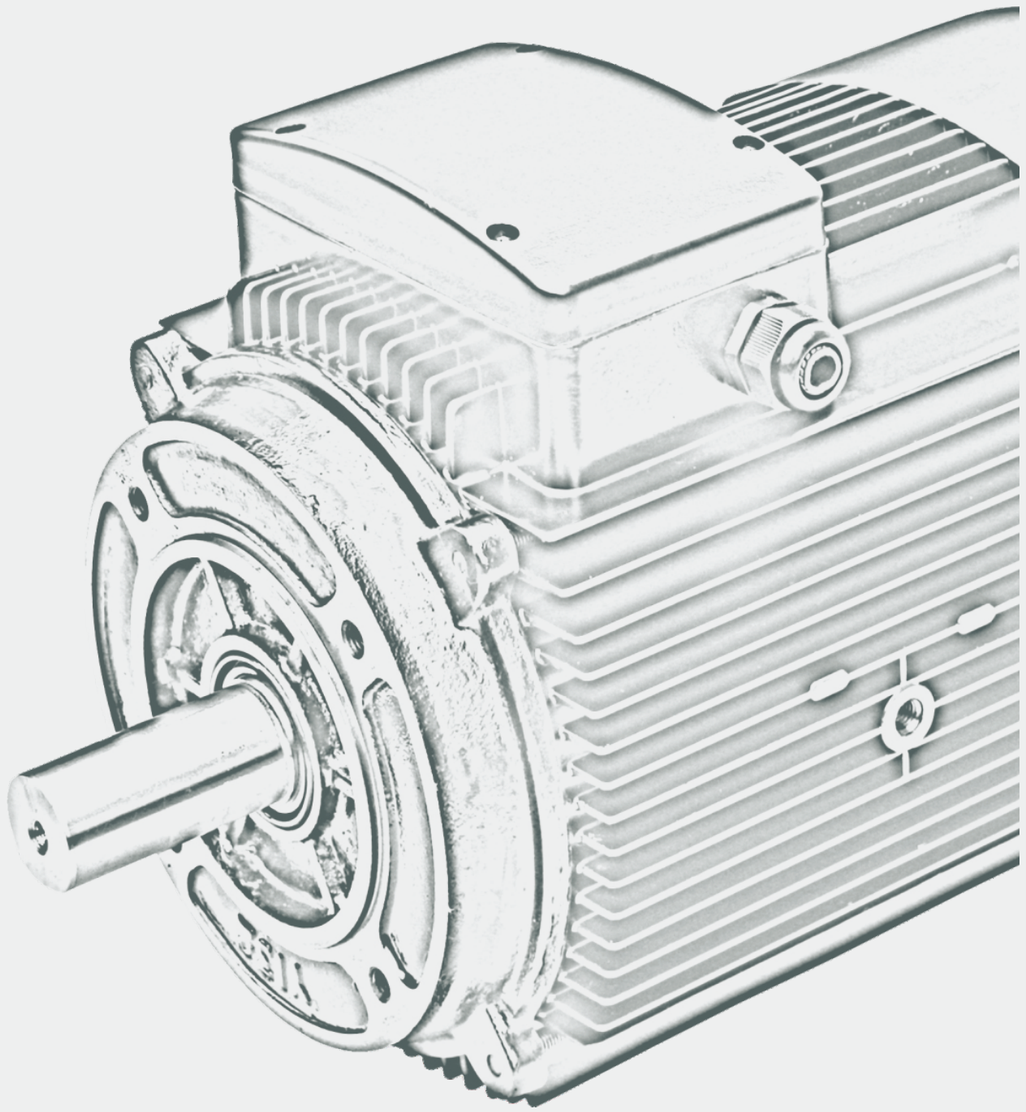

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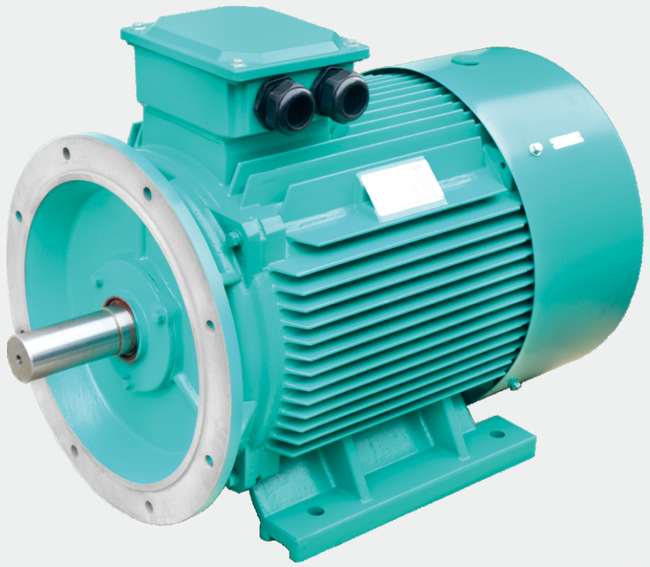
EM4 series three-phase asynchronous motor



The **EM4 series** three-phase asynchronous motor is a newly developed ultra efficient and energy-saving motor designed and manufactured by our company. The energy efficiency level complies with the first level efficiency regulation in the "Motor Energy Conservation Evaluation Value" in GB 18613- "Energy Efficiency Limits and Energy Efficiency Levels for Small and Medium sized Three Phase Asynchronous Motors".

Product Features

1) The novel style of the junction box, base, end cover, and fan cover is conducive to noise reduction and ventilation

2) The motor adopts a thermal rating of 155 (F) insulation system to extend its service life.

3) The working system is S1, the cooling method IC411, and the shell protection level IP55 or IP56.

4) It bears excellent starting characteristics.

5) It features low temperature rise, high reliability, high efficiency, strong energy conservation, good safety, strong environmental protection, and nice appearance.

Working Conditions

a) Temperature: The ambient air temperature varies with the season, but the highest temperature is+40 ℃, and the lowest temperature of the ambient air is -15 ℃.

b) Altitude: not exceeding 1000m
Note: When the ambient air temperature and altitude are different from the above regulations, the provisions of IEC60034-1 shall apply.

c) Humidity: The average highest relative humidity in the wettest month is 90%, and the average lowest temperature in that month is not higher than 25 ℃.

d) Rated frequency: 50Hz.

e) Working system: S1

f) Rated voltage: 380V
Note: When there are special requirements for frequency, voltage, ambient air temperature, altitude, etc., please provide them when placing an order.

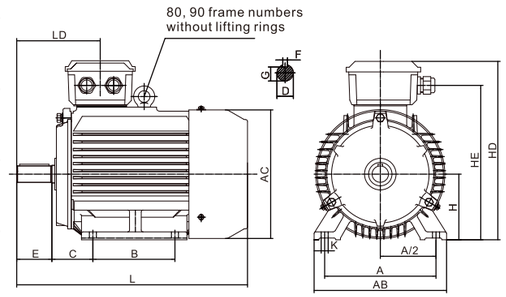
EM4 Product performance data

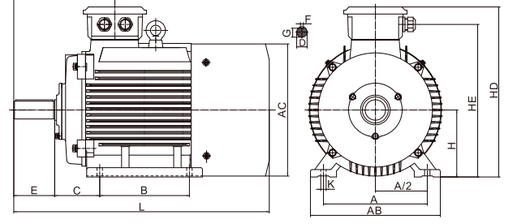
Model	Current (A)	Power		Rotating speed (rpm)	Efficiency (%)	Power factor (cosφ)	Locked-rotor torque / Rated torque Tsn/Tn	Locked-rotor current / Rated current Isn/In	Maximum torque / Rated torque Tmax/Tn	Weight (kg)
		KW	HP							
EM4-80M1-2	1.6	0.75	1	2900	83.5	0.83	2.2	8.5	2.3	22
EM4-80M2-2	2.4	1.1	1.5	2900	85.2	0.83	2.2	8.5	2.3	25
EM4-90S-2	3.1	1.5	2	2910	86.5	0.85	2.2	9.0	2.3	31
EM4-90L-2	4.4	2.2	3	2910	88.0	0.86	2.2	9.0	2.3	36
EM4-100L-2	5.9	3	4	2920	89.1	0.87	2.2	9.5	2.3	45
EM4-112M-2	7.7	4	5.5	2920	90.0	0.88	2.2	9.5	2.3	60
EM4-132S1-2	10.4	5.5	7.5	2940	90.9	0.88	2	9.5	2.3	78
EM4-132S2-2	14.0	7.5	10	2940	91.7	0.89	2	9.5	2.3	85
EM4-160M1-2	20.3	11	15	2950	92.6	0.89	2	9.5	2.3	150
EM4-160M2-2	27.4	15	20	2950	93.3	0.89	2	9.5	2.3	165
EM4-160L-2	33.7	18.5	25	2950	93.7	0.89	2	9.5	2.3	173
EM4-180M-2	40.0	22	30	2960	94	0.89	2	9.5	2.3	210
EM4-200L1-2	54.2	30	40	2970	94.5	0.89	2	9.0	2.3	290
EM4-200L2-2	66.6	37	50	2970	94.8	0.89	2	9.0	2.3	310
EM4-225M-2	80.9	45	60	2970	95	0.89	2	9.0	2.3	370
EM4-250M-2	98.5	55	75	2980	95.3	0.89	2	9.0	2.3	510
EM4-280S-24	133.9	75	100	2980	95.6	0.89	1.8	8.5	2.3	620
EM4-280M-2	160.4	90	120	2980	95.8	0.89	1.8	8.5	2.3	680
EM4-315S-2	195.6	110	150	2980	96	0.89	1.8	8.5	2.3	1120
EM4-315M-2	234.2	132	180	2980	96.2	0.89	1.8	8.5	2.3	1130
EM4-315L1-2	283.6	160	215	2980	96.3	0.89	1.8	8.5	2.2	1210
EM4-315L2-2	353.8	200	270	2980	96.5	0.89	1.8	8.5	2.2	1310
EM4-355M-2	432.5	250	335	2980	96.5	0.91	1.6	8.5	2.2	1860
EM4-355L-2	545.0	315	425	2980	96.5	0.91	1.6	8.5	2.2	2150
EM4-80M2-4	1.8	0.75	1	1440	85.7	0.74	2.3	8.5	2.3	25
EM4-90S-4	2.6	1.1	1.5	1445	87.2	0.75	2.3	8.5	2.3	33
EM4-90L-4	3.4	1.5	2	1445	88.2	0.76	23	9.0	2.3	38
EM4-100L1-4	4.7	2.2	3	1460	89.5	0.79	2.3	9.0	2.3	44
EM4-100L2-4	6.3	3	4	1460	90.4	0.8	2.3	9.5	2.3	50
EM4-112M-4	8.3	4	5.5	1460	91.1	0.8	2.3	9.5	2.3	65
EM4-132S-4	11.4	5.5	7.5	1470	91.9	0.8	20	9.5	2.3	80
EM4-132M-4	15.2	7. 5	10	1470	92.6	0.81	2.0	9.5	2.3	92
EM4-160M-4	21.6	11	15	1475	93.3	0.83	20	9.5	2.3	160
EM4-160L-4	28.9	15	20	1475	93.9	0.84	2.0	9.5	2.3	180
EM4-180M-4	35.1	18.5	25	1480	94.2	0.85	20	9.5	2.3	205

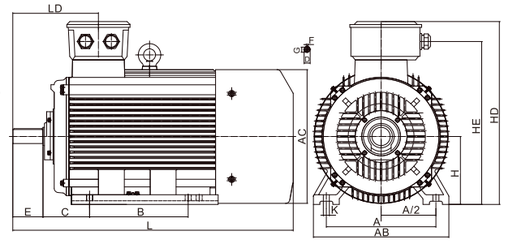
Model	Current (A)	Power		Rotating speed (rpm)	Efficiency (%)	Power factor (cosφ)	Locked-rotor torque / Rated torque Tsn/Tn	Locked-rotor current / Rated current Isn/In	Maximum torque / Rated torque Tmax/Tn	Weight (kg)
		KW	HP							
EM4-180L-4	41.6	22	30	1480	94.5	0.85	2.0	9.5	2.3	235
EM4-200L-4	56.5	30	40	1480	94.9	0.85	2.0	9.0	2.3	310
EM4-225S-4	69.5	37	50	1485	95.2	0.85	2.0	9.0	2.3	370
EM4-225M-4	84.3	45	60	1485	95.4	0.85	2.0	9.0	2.3	405
EM4-250M-4	101.5	55	75	1485	95.7	0.86	2.0	9.0	2.3	520
EM4-280S-4	136.4	75	100	1485	96	0.87	2.0	8.5	2.3	650
EM4-280M-4	161.7	90	120	1485	96.1	0.88	2.0	8.5	2.3	720
EM4-315S-4	195.0	110	150	1490	96.3	0.89	1.8	8.5	2.2	1140
EM4-315M-4	233.8	132	180	1490	96.4	0.89	1.8	8.5	2.2	1150
EM4-315L1-4	279.6	160	215	1490	96.6	0.9	1.8	8.5	2.2	1230
EM4-315L2-4	349.2	200	270	1490	96.7	0.9	1.8	8.5	2.2	1320
EM4-355M-4	436.4	250	335	1490	96.7	0.9	1.8	8.5	2.2	1850
EM4-355L-4	549.9	315	425	1490	96.7	0.9	1.8	8.5	2.2	2160
EM4-90S-6	2.0	0.75	1	950	82.7	0.7	2.1	7.5	2.1	35
EM4-90L-6	2.8	1.1	1.5	950	84.5	0.7	2.1	7.5	2.1	41
EM4-100L-6	3.7	1.5	2	960	85.9	0.71	2.1	7.5	2.1	51
EM4-112M-6	5.4	2.2	3	970	87.4	0.71	2.1	7.5	2.1	60
EM4-132S-6	7.2	3	4	970	88.6	0.71	2.0	7.5	2.1	78
EM4-132M1-6	9.4	4	5.5	970	89.5	0.72	2.0	8.0	2.1	85
EM4-132M2-6	12.8	5.5	7.5	970	90.5	0.72	2.0	8.0	2.1	90
EM4-160M-6	16.4	7.5	10	975	91.3	0.76	2.0	80	2.1	145
EM4-160L-6	23.5	11	15	975	92.3	0.77	2.0	8.5	2.1	175
EM4-180L-6	30.7	15	20	985	92.9	0.8	2.0	8.5	2.1	175
EM4-200L1-6	37.6	18.5	25	985	93.4	0.8	2.0	8.5	2.1	215
EM4-200L2-6	44.0	22	30	985	93.7	0.81	2.0	8.5	2.1	295
EM4-225M-6	59.0	30	40	985	94.2	0.82	2.0	8.3	2.1	350
EM4-250M-6	71.7	37	50	990	94.5	0.83	2.0	8.3	2.1	470
EM4-280S-6	86.9	45	60	990	94.8	0.83	2.0	8.5	2.0	600
EM4-280M-6	104.6	55	75	990	95.1	0.84	2.0	8.5	2.0	670
EM4-315S-6	142.2	75	100	990	95.4	0.84	1.6	8.0	2.0	1020
EM4-315M-6	168.3	90	120	990	95.6	0.85	1.6	8.0	2.0	1100
EM4-315L1-6	205.2	110	150	990	95.8	0.85	1.6	8.0	2.0	1260
EM4-315L2-6	242.9	132	180	990	96	0.86	1.6	8.0	2.0	1350
EM4-355M1-6	293.8	160	215	990	96.2	0.86	1.6	8.0	2.0	1780
EM4-355M2-6	366.9	200	270	990	96.3	0.86	1.6	8.0	2.0	1930
EM4-355L-6	457.7	250	335	990	96.5	0.86	1.6	8.0	2.0	2200

EM4 Outline mounting dimension drawing data (B3)

Frame size	Number of pole pairs	Installation dimensions										Overall dimensions					
		A	A/2	B	C	D	E	F	G	H	K	AB	AC	LD	L	HE	HD
80M	2.4	125	62.5	100	50	19	40	6	15.5	80	10	165	175	112	305	185	220
90S		140	70		56	24	50	8	20	90		180	205	125	360	209	265
90L				125											390		
100L	2	160	80	140	63	28	60		24	100	12	205	215	139	435	233	270
	4																
112M	2	190	95		70					112		230	255	142.5	440	263.5	310
	4																
132S	2	216	108		89	38	80	10	33	132		270	310	175	510	303	365
132M	2.4			178											550		
160M		254	127	210	108	42	110	12	37	160	14.5	320	340	256.5	730	373	425
160L				254											760		
180M		279	139.5	241	121	48		14	42.5	180		355	390	272	770	410	460
180L				279											800		
200L		318	159	305	133	55		16	49	200		395	445	297	860	450	520
225S	4	356	178	286	149	60	140	18	53	225	18.5	435	495	328	830	497	575
225M	2			311		55	110	16	49					298	830		
	4					60	140	18	53					328	860		
250M	2	406	203	349	168					250	24	490	550	346.5	990	552	635
	4					65	140	18	58								
280S	2	457	228.5	368	190					280		550	630	356	990	610	705
	4					75		20	67.5								
280M	2			419		65		18	58						1040		
	4					75		20	67.5								
315S	2	508	254	406	216	65	140	18	58	315	28	635	645	397	1180	755.5	845
	4					80	170	22	71					427	1290		
315M	2			457		65	140	18	58					397	1210		
	4					80	170	22	71					427	1320		
315L	2			508		65	140	18	58					397	1210		
	4					80	170	22	71					427	1320		
355M	2	610	30	560	254	75	140	20	67.5	355	28	730	710	424	1500	901	1010
	4					95	170	25	86					454	1530		
355L	2			630		75	140	20	67.5					424	1500		
	4					95	170	25	86					454	1530		



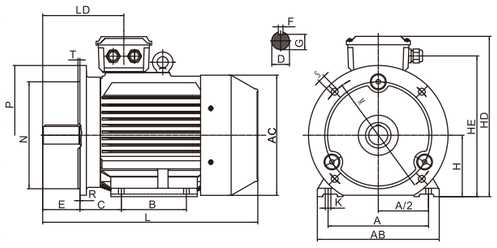


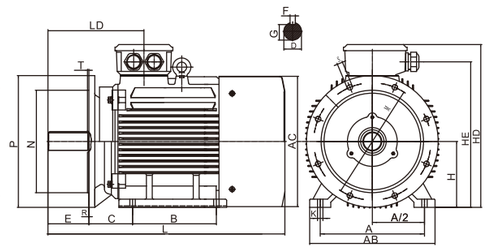


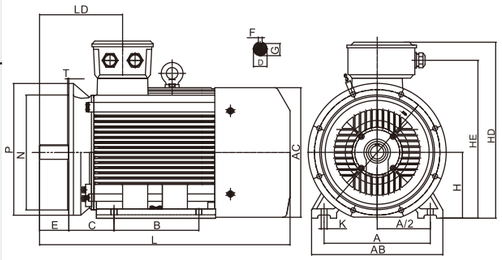
EM4 Outline mounting dimension drawing data (B35)

Frame size	Number of pole pairs	Installation dimensions												
		A	A/2	B	C	D	E	F	G	H	K	M	N	P
80M	2.4	125	62.5	100	50	19	40	6	15.5	80	10	165	130	200
90S		140	70		56	24	50	8	20	90				
90L				125										
100L		160	80	140	63	28	60		24	100	12	215	180	250
112M		190	95		70					112				
132S		216	108		89	38	80	10	33	132		265	230	300
132M				178										
160M		254	127	210	108	42	110	12	37	160	14.5	300	250	350
160L				254										
180M		279	139.5	241	121	48		14	42.5	180				
180L				279										
200L		318	159	305	133	55		16	49	200	18.5	350	300	400
225S	4	356	178	286	149	60	140	18	53	225		400	350	450
225M	2			311		55	110	16	49					
	4					60	140	18	53					
250M	2	406	203	349	168	65			58	250	24	500	450	550
	4													
280S	2	457	228.5	368	190	75		20	67.5	280				
	4													
280M	2			419		65		18	58					
	4					75		20	67.5					
315S	2	508	254	406	216	65		18	58	315	28	600	550	660
	4					80	170	22	71					
315M	2			457		65	140	18	58					
	4					80	170	22	71					
315L	2			508		65	140	18	58					
	4					80	170	22	71					
355M	2	610	305	560	254	75	140	20	67.5	355		740	680	800
	4					95	170	25	86					
355L	2			630		75	140	20	67.5					
	4					95	170	25	86					

				Overall dimensions			
R	S	T	Number of flange holes	AB	AC	L	HD
0	12	3.5	4	165	175	305	220
				180	205	395	265
						425	
	14.5	4		205	215	435	270
				230	255	475	310
				270	310	535	365
						550	
	18.5	5		320	340	730	425
						760	
				355	390	805	460
						835	
				395	445	890	520
			8	435	495	865	575
						865	
						895	
				490	550	995	635
				550	630	1030	705
						1080	
	24	6		635	645	1180	845
						1290	
						1210	
						1320	
						1210	
						1320	
				730	710	1500	1010
						1530	
						1500	
						1530	







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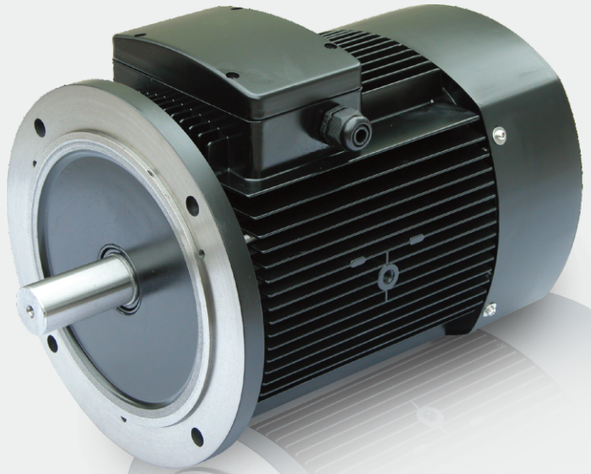
EM3 series three-phase asynchronous motor



The **EM3 series** three-phase asynchronous motor is a newly developed ultra efficient and energy-saving motor designed and manufactured by our company. The energy efficiency level complies with the second level efficiency regulation in the "Motor Energy Conservation Evaluation Value" in GB 18613- "Energy Efficiency Limits and Energy Efficiency Levels for Small and Medium sized Three Phase Asynchronous Motors".

Product Features

1) The novel style of the junction box, base, end cover, and fan cover is conducive to noise reduction and ventilation

2) The motor adopts a thermal rating of 155 (F) insulation system to extend its service life.

3) The working system is S1, the cooling method IC411, and the shell protection level IP55 or IP56.

4) It bears excellent starting characteristics.

5) It features low temperature rise, high reliability, high efficiency, strong energy conservation, good safety, strong environmental protection, and nice appearance.

Working Conditions

a) Temperature: The ambient air temperature varies with the season, but the highest temperature is+40 ℃, and the lowest temperature of the ambient air is -15 ℃.

b) Altitude: not exceeding 1000m
Note: When the ambient air temperature and altitude are different from the above regulations, the provisions of IEC60034-1 shall apply.

c) Humidity: The average highest relative humidity in the wettest month is 90%, and the average lowest temperature in that month is not higher than 25 ℃.

d) Rated frequency: 50Hz.

e) Working system: S1

f) Rated voltage: 380V
Note: When there are special requirements for frequency, voltage, ambient air temperature, altitude, etc., please provide them when placing an order.

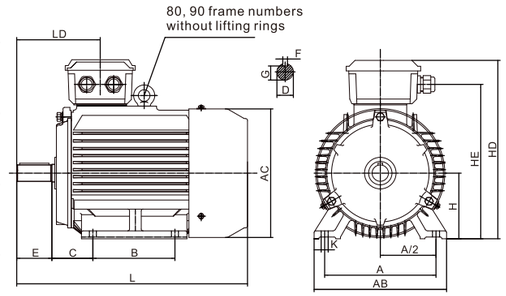
EM3 Product performance data

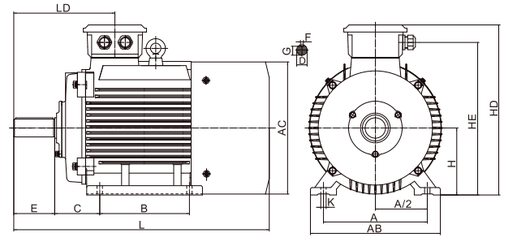
Model	Current (A)	Power		Rotating speed (rpm)	Efficiency (%)	Power factor (cosφ)	Locked-rotor torque / Rated torque Tsn/Tn	Locked-rotor current / Rated current Isn/In	Maximum torque / Rated torque Tmax/Tn	Weight (kg)
		KW	HP							
EM3-80M1-2	1.7	0.75	1	2880	80.7	0.82	2.3	7.0	2.3	20
EM3-80M2-2	2.4	1.1	1.5	2880	82.7	0.83	2.2	7.3	2.3	21
EM3-90S-2	3.2	1.5	2	2895	84.2	0.84	2.2	7.6	2.3	26
EM3-90L-2	4.6	2.2	3	2895	85.9	0.85	2.2	7.6	2.3	29
EM3-100L-2	6.0	3	4	2895	87.1	0.87	2.2	7.8	2.3	43
EM3-112M-2	7.8	4	5.5	2905	88.1	0.88	2.2	8.3	2.3	51
EM3-132S1-2	10.6	5.5	7.5	2930	89.2	0.88	2.0	8.3	2.3	76
EM3-132S2-2	14.4	7.5	10	2930	90.1	0.88	2.0	7.9	2.3	84
EM3-160M1-2	20.6	11	15	2945	91.2	0.89	2.0	8.1	2.3	128
EM3-160M2-2	27.9	15	20	2945	91.9	0.89	2.0	8.1	2.3	140
EM3-160L-2	34.2	18.5	25	2945	92.4	0.89	2.0	8.2	2.3	155
EM3-180M-2	40.5	22	30	2960	92.7	0.89	2.0	8.2	2.3	192
EM3-200L1-2	54.9	30	40	2955	93.3	0.89	2.0	7.6	2.3	246
EM3-200L2-2	67.4	37	50	2955	93.7	0.89	2.0	7.6	2.3	267
EM3-225M-2	80.8	45	60	2965	94.0	0.90	2.0	7.7	2.3	353
EM3-250M-2	98.5	55	75	2970	94.3	0.90	2.0	7.7	2.3	408
EM3-280S-2	133.7	75	100	2975	94.7	0.90	1.8	7.1	2.3	548
EM3-280M-2	159.9	90	120	2975	95.0	0.90	1.8	7.1	2.3	596
EM3-315S-2	195.1	110	150	2975	95.2	0.90	1.8	7.1	2.3	956
EM3-315M-2	233.6	132	180	2975	95.4	0.90	1.8	7.1	2.3	1017
EM3-315L1-2	279.4	160	215	2980	95.6	0.91	1.8	7.2	2.3	1120
EM3-315L2-2	348.6	200	270	2980	95.8	0.91	1.8	7.2	2.2	1150
EM3-355M-2	435.7	250	335	2980	95.8	0.91	1.6	7.2	2.2	1948
EM3-355L-2	549.0	315	425	2980	95.8	0.91	1.6	7.2	2.2	2355
EM3-80M2-4	1.8	0.75	1	1420	82.5	0.75	2.3	6.6	2.3	22
EM3-90S-4	2.6	1.1	1.5	1440	84.1	0.76	2.3	6.8	2.3	27
EM3-90L-4	3.5	1.5	2	1440	85.3	0.77	2.3	7.0	2.3	32
EM3-100L1-4	4.8	2.2	3	1440	86.7	0.81	2.3	7.6	2.3	44
EM3-100L2-4	6.3	3	4	1440	87.7	0.82	2.3	7.6	2.3	49
EM3-112M-4	8.4	4	5.5	1440	88.6	0.82	2.2	7.8	2.3	56
EM3-132S-4	11.2	5.5	7.5	1460	89.6	0.83	2.0	7.9	2.3	81
EM3-132M-4	15.0	7.5	10	1460	90.4	0.84	2.0	7.5	2.3	91
EM3-160M-4	21.5	11	15	1465	91.4	0.85	2.2	7.7	2.3	141
EM3-160L-4	28.8	15	20	1465	92.1	0.86	2.2	7.8	2.3	151
EM3-180M-4	35.3	18.5	25	1470	92.6	0.86	2.0	7.8	2.3	190
EM3-180L-4	41.8	22	30	1470	93.0	0.86	2.0	7.8	2.3	205
EM3-200L-4	56.6	30	40	1475	93.6	0.86	2.0	7.3	2.3	275
EM3-255S-4	69.6	37	50	1485	93.9	0.86	2.0	7.4	2.3	315
EM3-255M-4	84.4	45	60	1485	94.2	0.86	2.0	7.4	2.3	345
EM3-250M-4	102.7	55	75	1485	94.6	0.86	2.2	7.4	2.3	421
EM3-280S-4	136.3	75	100	1485	95.0	0.88	2.0	6.9	2.3	538
EM3-280M-4	163.2	90	120	1485	95.2	0.88	2.0	6.9	2.3	638
EM3-315S-4	196.8	110	150	1485	95.4	0.89	2.0	7.0	2.2	958
EM3-315M-4	235.7	132	180	1485	95.6	0.89	2.0	7.0	2.2	1045
EM3-315L1-4	285.1	160	215	1485	95.8	0.89	2.0	7.1	2.2	1115
EM3-315L2-4	351.7	200	270	1490	96.0	0.90	2.0	7.1	2.2	1235
EM3-355M-4	439.6	250	335	1490	96.0	0.90	2.0	7.1	2.2	1945
EM3-355L-4	553.9	315	425	1490	96.0	0.90	2.0	7.1	2.2	2350
EM3-90S-6	2.0	0.75	1	935	78.9	0.71	2.0	6.0	2.1	27
EM3-90L-6	2.8	1.1	1.5	945	81.0	0.73	2.0	6.0	2.1	29
EM3-100L-6	3.8	1.5	2	950	82.5	0.73	2.0	6.5	2.1	42
EM3-112M-6	5.4	2.2	3	955	84.3	0.74	2.0	6.6	2.1	53
EM3-132S-6	7.2	3	4	965	85.6	0.74	2.0	6.8	2.1	79
EM3-132M1-6	9.5	4	5.5	965	86.8	0.74	2.0	6.8	2.1	86
EM3-132M2-6	12.7	5.5	7.5	965	88.0	0.75	2.0	7.0	2.1	98
EM3-160M-6	16.2	7.5	10	970	89.1	0.79	2.0	7.0	2.1	154
EM3-160L-6	23.1	11	15	970	90.3	0.80	2.0	7.2	2.1	170
EM3-180L-6	30.9	15	20	975	91.2	0.81	2.0	7.3	2.1	203
EM3-200L1-6	37.8	18.5	25	980	91.7	0.81	2.0	7.3	2.1	241
EM3-200L2-6	44.8	22	30	980	92.2	0.81	2.0	7.4	2.1	256
EM3-225M-6	59.1	30	40	980	92.9	0.83	2.0	6.9	2.1	322
EM3-250M-6	71.7	37	50	985	93.3	0.84	2.0	7.1	2.1	405
EM3-280S-6	85.8	45	60	985	93.7	0.85	2.0	7.3	2.0	521
EM3-280M-6	103.3	55	75	985	94.1	0.86	2.0	7.3	2.0	570
EM3-315S-6	143.4	75	100	985	94.6	0.84	2.0	6.6	2.0	941
EM3-315M-6	169.5	90	120	985	94.9	0.85	2.0	6.7	2.0	1021
EM3-315L1-6	206.8	110	150	985	95.1	0.85	2.0	6.7	2.0	1094
EM3-315L2-6	244.4	132	180	985	95.4	0.86	2.0	6.8	2.0	1216
EM3-355M1-6	295.7	160	215	990	95.6	0.86	1.8	6.8	2.0	1970
EM3-355M2-6	364.6	200	270	990	95.8	0.87	1.8	6.8	2.0	2160
EM3-355L-6	455.7	250	335	990	95.8	0.87	1.8	6.8	2.0	2380

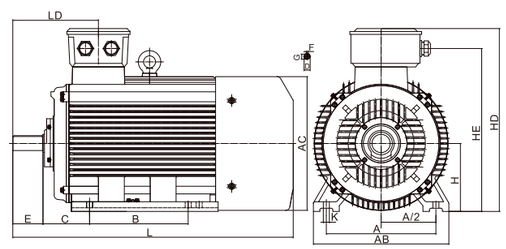
EM3 Outline mounting dimension drawing data(B3)

Frame size	Number of pole pairs	Installation dimensions									
		A	A/2	B	C	D	E	F	G	H	K
80M	2,4	125	62.5	100	50	19	40	6	15.5	80	10
90S		140	70		56	24	50	8	20	90	
90L				125							
100L	2	160	80	140	63	28	60		24	100	12
	4										
112M	2	190	95		70					112	
	4										
132S	2	216	108		89	38	80	10	33	132	
132M	2,4			178							
160M		254	127	210	108	42	110	12	37	160	14.5
160L				254							
180M		279	139.5	241	121	48		14	42.5	180	
180L				279							
200L		318	159	305	133	55		16	49	200	18.5
225S	4	356	178	286	149	60	140	18	53	225	
225M	2			311		55	110	16	49		
	4					60	140	18	53		
250M	2	406	203	349	168					250	24
	4					65			58		
280S	2	457	228.5	368	190					280	
	4					75		20	67.5		
280M	2			419		65		18	58		
	4					75		20	67.5		
315S	2	508	254	406	216	65	140	18	58	315	28
	4					80	170	22	71		
315M	2			457		65	140	18	58		
	4					80	170	22	71		
315L	2			508		65	140	18	58		
	4					80	170	22	71		
355M	2	610	305	560	254	75	140	20	67.5	355	
	4					95	170	25	86		
355L	2			630		75	140	20	67.5		
	4					95	170	25	86		

Overall dimensions					
AB	AC	LD	L	HE	HD
160	155	112	284	185	217
176	175	125	313	209	245
			383		
200	195	139	380	233	269
			434.5		
226	219	142.5	394	263.5	304
			462		
262	258	175	4625	303	344
314	315	256.5	610	373	420
			654		
349	355	272	687	410	457
			725		
388	397	297	771	450	508
431	445	328	809	497	556
		298	804		
		328	834		
484	484	346.5	909	552	617
542	547	356	970	610	675
			1021		
628	620	397	1198	755.5	848
		427	1228		
		397	1308		
		427	1338		
		397	1308		
		427	1338		
726	698	424	1511	901	997
		454	1541		
		424	1511		
		454	1541		



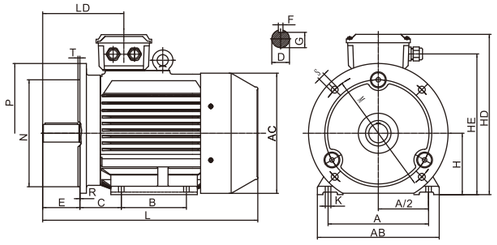


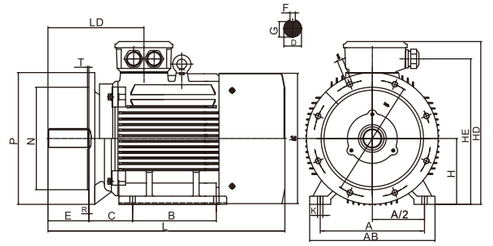


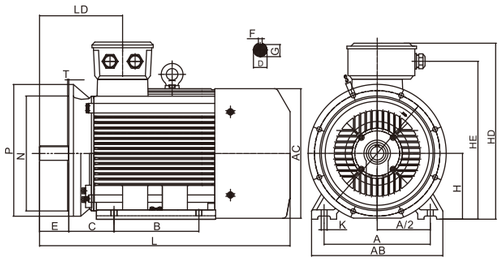
EM3 Outline mounting dimension drawing data(B35)

Frame size	Number of pole pairs	Installation dimensions														
		A	A/2	B	C	D	E	F	G	H	K	M	N	P	R	S
80M	2,4	125	62.5	100	50	19	40	6	15.5	80	10	165	130	200	0	12
90S		140	70		56	24	50	8	20	90						
90L				125												
100L	2	160	80	140	63	28	60		24	100	12	215	180	250		14.5
	4															
112M	2	190	95		70					112						
	4															
132S	2,4	216	108		89	38	80	10	33	132		265	230	300		
132M				178												
160M		254	127	210	108	42	110	12	37	160	14.5	300	250	350		18.5
160L				254												
180M		279	139.5	241	121	48		14	42.5	180						
180L				279												
200L		318	159	305	133	55		16	49	200	18.5	350	300	400		
225S	4	356	178	286	149	60	140	18	53	225		400	350	450		
225M	2			311		55	110	16	49							
	4					60	140	18	53							
250M	2	406	203	349	168					250	24	500	450	550		
	4					65			58							
280S	2	457	228.5	368	190			20	67.5	280						
	4					75										
280M	2			419		65		18	58							
	4					75		20	67.5							
315S	2	508	254	406	216	65		18	58	315	28	600	550	660		
	4					80	170	22	71							
315M	2			457		65	140	18	58							
	4					80	170	22	71							
315L	2			508		65	140	18	58							
	4					80	170	22	71							
355M	2	610	305	560	254	75	140	20	67.5	355		740	680	800		
	4					95	170	25	86							
355L	2			630		75	140	20	67.5							
	4					95	170	25	86							

T	Number of flange holes	Overall dimensions					
		AB	AC	LD	L	HE	HD
3.5	4	160	155	112	284	185	217
		176	175	125	313	209	245
					383		
4		200	195	139	380	233	269
					434.5		
		226	219	142.5	394	263.5	304
					462		
		262	258	175	462.5	303	344
5	8	314	315	256.5	610	373	420
					654		
		349	355	272	687	410	457
					725		
		388	397	297	771	450	508
		431	445	328	809	497	556
				298	804		
				328	834		
		484	484	346.5	909	552	617
		542	547	356	970	610	675
					1021		
6		628	620	397	1198	755.5	848
				427	1228		
				397	1308		
				427	1338		
				397	1308		
				427	1338		
		726	698	424	1511	901	997
				454	1541		
				424	1511		
				454	1541		



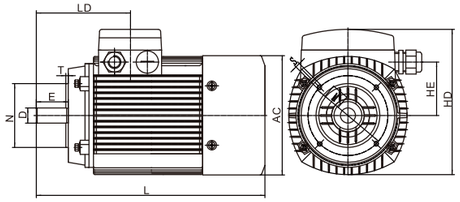




EM3 Outline mounting dimension drawing data(B14)

Frame size	Number of pole pairs	Installation dimensions						
		D	E	T	N	Number of flange holes	S	M
80M	2	19	40	3	80	4	M6	100
90S	2	24	50	3	95	4	M8	115
90L	2	24	50	3	95	4	M8	115
100L	2	28	60	3. 5	110	4	M8	130
112M	2	28	60	3. 5	110	4	M8	130
132	2	38	80	3. 5	130	4	M10	165

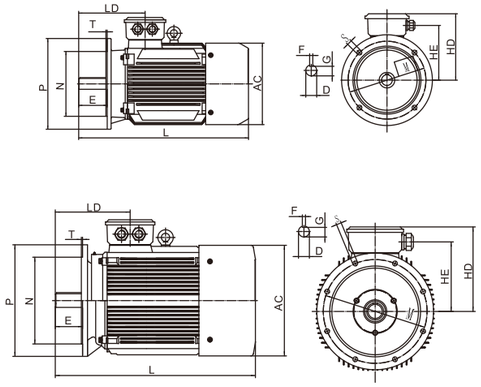
Overall dimensions				
HD	HE	AC	L	LD
182	65	148	284	118
204	73. 5	171	337	143. 5
229	86	196	397	165
256	99	215	401. 5	167. 5
295. 5	116	257	462. 5	194. 5



EM3 Outline mounting dimension drawing data(B5)

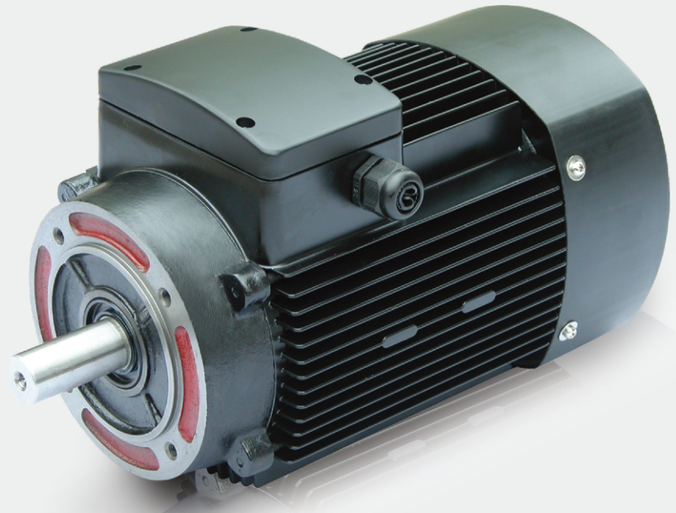
Frame size	Number of pole pairs	Installation dimensions								
		D	E	T	N	F	G	Number of flange holes	S	P
160M	2, 4	42	110	5	250	12	37	4	18. 5	350
160L		42								
180M		48				14	42. 5			
180L		48								
200L		55			300	16	49			400
225S	4	60	140		350	18	53	8		450
225M	2	55	110			16	49			
	4	60	140			18	53			
250M	2	60			450					550
	4	65					58			
280S	2	65								
	4	75				20	67. 5			

M	Overall dimensions				
	AC	LD	L	HD	HE
300	315	256. 5	610	260	213
			654		
	355	272	687	277	230
			725		
350	397	297	771	308	250
400	445	328	809	331	272
		298	804		
		328	834		
500	484	346. 5	909	367	302
	547	356	970	395	330



SAFESAV

EM2 series three-phase asynchronous motor



The **EM2 series** three-phase asynchronous motor is a newly developed ultra efficient and energy-saving motor designed and manufactured by our company. The energy efficiency level complies with the third level efficiency regulation in the "Motor Energy Conservation Evaluation Value" in GB 18613- "Energy Efficiency Limits and Energy Efficiency Levels for Small and Medium sized Three Phase Asynchronous Motors".

Product Features

1) The novel style of the junction box, base, end cover, and fan cover is conducive to noise reduction and ventilation

2) The motor adopts a thermal rating of 155 (F) insulation system to extend its service life.

3) The working system is S1, the cooling method IC411, and the shell protection level IP55 or IP56.

4) It bears excellent starting characteristics.

5) It features low temperature rise, high reliability, high efficiency, strong energy conservation, good safety, strong environmental protection, and nice appearance.

Working Conditions

a) Temperature: The ambient air temperature varies with the season, but the highest temperature is+40 ℃, and the lowest temperature of the ambient air is -15 ℃.

b) Altitude: not exceeding 1000m
Note: When the ambient air temperature and altitude are different from the above regulations, the provisions of IEC60034-1 shall apply.

c) Humidity: The average highest relative humidity in the wettest month is 90%, and the average lowest temperature in that month is not higher than 25 ℃.

d) Rated frequency: 50Hz.

e) Working system: S1

f) Rated voltage: 380V
Note: When there are special requirements for frequency, voltage, ambient air temperature, altitude, etc., please provide them when placing an order.

EM2 Product performance data

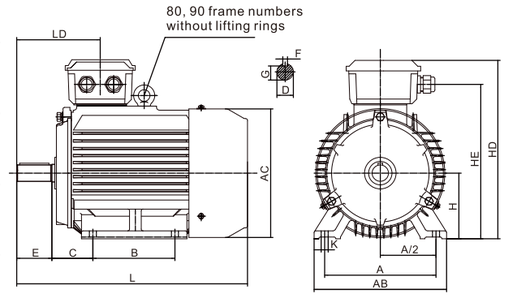
Model	Current (A)	Power		Rotating speed (rpm)	Efficiency (%)	Power factor (cosφ)	Locked-rotor torque / Rated torque Tsn/Tn	Locked-rotor current / Rated current Isn/In	Maximum torque / Rated torque Tmax/Tn	Weight (kg)
		KW	HP							
EM2-80M1-2	1.8	0.75	1	2875	77.4	0.82	2.3	6.8	2.3	20
EM2-80M2-2	2.5	1.1	1.5	2875	79.6	0.83	2.3	7.1	2.3	21
EM2-90S-2	3.3	1.5	2	2890	81.3	0.84	2.3	7.3	2.3	26
EM2-90L-2	4.7	2.2	3	2890	83.2	0.85	2.3	7.6	2.3	29
EM2-100L-2	6.2	3	4	2890	84.6	0.87	2.2	7.8	2.3	43
EM2-112M-2	8.0	4	5.5	2900	85.8	0.88	2.2	8.1	2.3	51
EM2-132S1-2	10.9	5.5	7.5	2925	87.0	0.88	2.2	8.2	2.3	76
EM2-132S2-2	14.5	7.5	10	2925	88.1	0.89	2.2	7.8	2.3	84
EM2-160M1-2	21.0	11	15	2940	89.4	0.89	2.2	7.9	2.3	128
EM2-160M2-2	28.4	15	20	2940	90.3	0.89	2.2	7.9	2.3	140
EM2-160L-2	34.7	18.5	25	2940	90.9	0.89	2.2	8.0	2.3	155
EM2-180M-2	41.1	22	30	2955	91.3	0.89	2.2	8.1	2.3	192
EM2-200L1-2	55.7	30	40	2960	92.0	0.89	2.0	7.5	2.3	246
EM2-200L2-2	68.3	37	50	2960	92.5	0.89	2.0	7.5	2.3	267
EM2-225M-2	82.7	45	60	2960	92.9	0.89	2.2	7.5	2.3	353
EM2-250M-2	100.7	55	75	2970	93.2	0.89	2.2	7.6	2.3	408
EM2-280S-2	136.5	75	100	2975	93.8	0.89	1.8	6.9	2.3	548
EM2-280M-2	163.3	90	120	2975	94.1	0.89	1.8	6.9	2.3	596
EM2-315S-2	196.9	110	150	2975	94.3	0.90	1.8	7.0	2.2	956
EM2-315M-2	235.6	132	180	2975	94.6	0.90	1.8	7.0	2.2	1017
EM2-315L1-2	281.8	160	215	2975	94.8	0.91	1.8	7.1	2.2	1120
EM2-315L2-2	351.5	200	270	2975	95.0	0.91	1.8	7.1	2.2	1150
EM2-355M-2	439.4	250	335	2980	95.0	0.91	1.6	7.1	2.2	1948
EM2-355L-2	553.6	315	425	2980	95.0	0.91	1.6	7.2	2.2	2355
EM2-80M2-4	1.9	0.75	1	1420	79.6	0.76	2.3	6.4	2.3	22
EM2-90S-4	2.7	1.1	1.5	1430	81.4	0.77	2.3	6.6	2.3	27
EM2-90L-4	3.5	1.5	2	1430	82.8	0.78	2.3	6.7	2.3	32
EM2-100L1-4	5	2.2	3	1445	84.3	0.80	2.3	7.3	2.3	44
EM2-100L2-4	6.6	3	4	1445	85.5	0.81	2.3	7.5	2.3	49
EM2-112M-4	8.7	4	5.5	1450	86.6	0.81	2.3	7.5	2.3	56
EM2-132S-4	11.6	5.5	7.5	1460	87.7	0.82	2.0	7.5	2.3	81
EM2-132M-4	15.5	7.5	10	1460	88.7	0.83	2.0	7.6	2.3	91
EM2-160M-4	22.4	11	15	1470	89.8	0.83	2.0	7.4	2.3	141
EM2-160L-4	29.9	15	20	1470	90.6	0.84	2.0	7.5	2.3	151
EM2-180M-4	36.3	18.5	25	1470	91.2	0.85	2.0	7.6	2.3	190

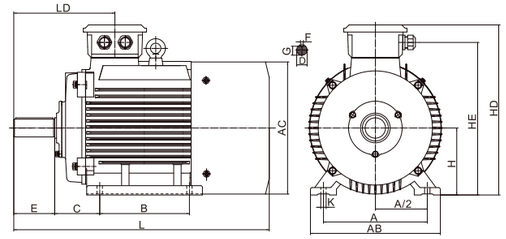
Model	Current (A)	Power		Rotating speed (rpm)	Efficiency (%)	Power factor (cosφ)	Locked-rotor torque / Rated torque Tsn/Tn	Locked-rotor current / Rated current Isn/In	Maximum torque / Rated torque Tmax/Tn	Weight (kg)
		KW	HP							
EM3-180L-4	42.9	22	30	1470	91.6	0.85	2.1	7.7	2.3	205
EM3-200L-4	58.1	30	40	1475	92.3	0.85	2.1	7.1	2.3	275
EM3-255S-4	70.5	37	50	1480	92.7	0.86	2.1	7.3	2.3	315
EM3-255M-4	85.4	45	60	1480	93.1	0.86	2.2	7.3	2.3	345
EM3-250M-4	103.9	55	75	1480	93.5	0.86	2.2	7.3	2.3	421
EM3-280S-4	139.3	75	100	1485	94.0	0.87	2.2	6.8	2.3	538
EM3-280M-4	165	90	120	1485	94.2	0.88	2.2	6.9	2.3	638
EM3-315S-4	198.7	110	150	1485	94.5	0.89	2.1	6.9	2.2	958
EM3-315M-4	238	132	180	1485	94.7	0.89	2.1	6.9	2.2	1045
EM3-315L1-4	284.6	160	215	1485	94.9	0.90	2.1	6.9	2.2	1115
EM3-315L2-4	355	200	270	1485	95.1	0.90	2.1	6.9	2.2	1235
EM3-355M-4	443.8	250	335	1490	95.1	0.90	2.0	6.9	2.2	1945
EM3-355L-4	559.2	315	425	1490	95.1	0.90	2.0	6.9	2.2	2350
EM3-90S-6	2.1	0.75	1	940	75.9	0.71	2.0	5.8	2.1	27
EM3-90L-6	3.0	1.1	1.5	940	78.1	0.72	2.0	5.9	2.1	29
EM3-100L-6	4.0	1.5	2	945	79.8	0.72	2.0	5.9	2.1	42
EM3-112M-6	5.7	2.2	3	955	81.8	0.72	2.0	6.2	2.1	53
EM3-132S-6	7.6	3	4	965	83.3	0.72	2.0	6.4	2.1	79
EM3-132M1-6	9.7	4	5.5	965	84.6	0.74	2.0	6.6	2.1	86
EM3-132M2-6	13	5.5	7.5	965	86.0	0.75	2.0	6.8	2.1	98
EM3-160M-6	16.8	7.5	10	970	87.2	0.78	2.0	6.8	2.1	154
EM3-160L-6	23.9	11	15	970	88.7	0.79	2.0	6.9	2.1	170
EM3-180L-6	31.0	15	20	975	89.7	0.82	2.0	7.3	2.1	203
EM3-200L1-6	38.9	18.5	25	980	90.4	0.80	2.0	7.2	2.1	241
EM3-200L2-6	45.4	22	30	980	90.9	0.81	2.0	7.3	2.1	256
EM3-225M-6	60.6	30	40	980	91.7	0.82	2.0	6.8	2.1	322
EM3-250M-6	73.5	37	50	980	92.2	0.83	2.0	7.0	2.1	405
EM3-280S-6	86.8	45	60	980	92.7	0.85	2.0	7.2	2.0	521
EM3-280M-6	104.4	55	75	980	93.1	0.86	2.0	7.2	2.0	570
EM3-315S-6	144.8	75	100	980	93.7	0.84	2.0	6.5	2.0	941
EM3-315M-6	171.1	90	120	980	94.0	0.85	2.0	6.6	2.0	1021
EM3-315L1-6	208.5	110	150	980	94.3	0.85	2.0	6.6	2.0	1094
EM3-315L2-6	246.5	132	180	980	94.6	0.86	2.0	6.6	2.0	1216
EM3-355M1-6	298.2	160	215	985	94.8	0.86	2.0	6.7	2.0	1970
EM3-355M2-6	371.9	200	270	985	95.0	0.86	2.0	6.8	2.0	2160
EM3-355L-6	464.9	250	335	985	95.0	0.86	2.0	6.8	2.0	2380

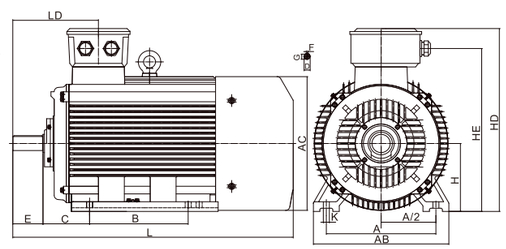
EM2 Outline mounting dimension drawing data(B3)

Frame size	Number of pole pairs	Installation dimensions									
		A	A/2	B	C	D	E	F	G	H	K
80M	2,4	125	62.5	100	50	19	40	6	15.5	80	10
90S		140	70		56	24	50	8	20	90	
90L				125							
100L	2	160	80	140	63	28	60		24	100	12
	4										
112M	2	190	95		70					112	
	4										
132S	2	216	108		89	38	80	10	33	132	
132M	2,4			178							
160M		254	127	210	108	42	110	12	37	160	14.5
160L				254							
180M		279	139.5	241	121	48		14	42.5	180	
180L				279							
200L		318	159	305	133	55		16	49	200	18.5
225S	4	356	178	286	149	60	140	18	53	225	
225M	2			311		55	110	16	49		
	4					60	140	18	53		
250M	2	406	203	349	168					250	24
	4					65			58		
280S	2	457	228.5	368	190					280	
	4					75		20	67.5		
280M	2			419		65		18	58		
	4					75		20	67.5		
315S	2	508	254	406	216	65	140	18	58	315	28
	4					80	170	22	71		
315M	2			457		65	140	18	58		
	4					80	170	22	71		
315L	2			508		65	140	18	58		
	4					80	170	22	71		
355M	2	610	305	560	254	75	140	20	67.5	355	28
	4					95	170	25	86		
355L	2			630		75	140	20	67.5		
	4					95	170	25	86		

Overall dimensions					
AB	AC	LD	L	HE	HD
160	155	112	284	185	217
176	175	125	313	209	245
			383		
200	195	139	380	233	269
			434.5		
226	219	142.5	394	263.5	304
			462		
262	258	175	4625	303	344
314	315	256.5	610	373	420
			654		
349	355	272	687	410	457
			725		
388	397	297	771	450	508
431	445	328	809	497	556
		298	804		
		328	834		
484	484	346.5	909	552	617
542	547	356	970	610	675
			1021		
628	620	397	1198	755.5	848
		427	1228		
		397	1308		
		427	1338		
		397	1308		
		427	1338		
726	698	424	1511	901	997
		454	1541		
		424	1511		
		454	1541		

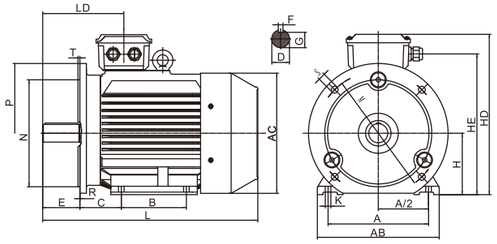


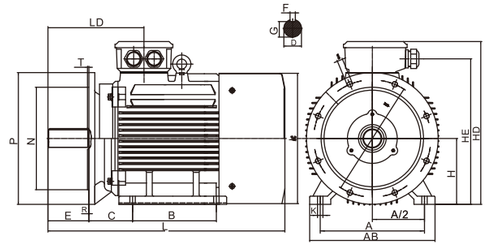


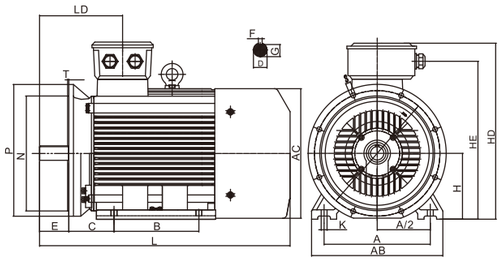


EM2 Outline mounting dimension drawing data(B35)

Frame size	Number of pole pairs	Installation dimensions															Overall dimensions								
		A	A/2	B	C	D	E	F	G	H	K	M	N	P	R	S	T	Number of flange holes	AB	AC	LD	L	HE	HD
80M	2,4	125	62.5	100	50	19	40	6	15.5	80	10	165	130	200		12	3.5	4	160	155	112	284	185	217
90S		140	70		56	24	50	8	20	90									176	175	125	313	209	245
90L				125																		383		
100L	2	160	80	140	63	28	60		24	100	12	215	180	250		14.5	4		200	195	139	380	233	269
	4																					434.5		
112M	2	190	95		70					112									226	219	142.5	394	263.5	304
	4																					462		
132S	2,4	216	108		89	38	80	10	33	132		265	230	300					262	258	175	462.5	303	344
132M				178																				
160M		254	127	210	108	42	110	12	37	160	14.5	300	250	350					314	315	256.5	610	373	420
160L				254																		654		
180M		279	139.5	241	121	48		14	42.5	180									349	355	272	687	410	457
180L				279																		725		
200L		318	159	305	133	55		16	49	200	18.5	350	300	400					388	397	297	771	450	508
225S	4	356	178	286	149	60	140	18	53	225		400	350	450	0	18.5	5				328	809	497	556
225M	2			311		55	110	16	49										431	445	298	804		
	4					60	140	18	53												328	834		
250M	2	406	203	349	168					250	24	500	450	550					484	484	346.5	909	552	617
	4					65			58															
280S	2	457	228.5	368	190					280									542	547	356	970	610	675
	4					75		20	67.5															
280M	2			419		65		18	58													1021		
	4					75		20	67.5															
315S	2	508	254	406	216	65		18	58	315	28	600	550	660		24	6		628	620	397	1198	755.5	848
	4					80	170	22	71												427	1228		
315M	2			457		65	140	18	58												397	1308		
	4					80	170	22	71												427	1338		
315L	2			508		65	140	18	58												397	1308		
	4					80	170	22	71												427	1338		
355M	2	610	305	560	254	75	140	20	67.5	355		740	680	800					726	698	424	1511	901	997
	4					95	170	25	86												454	1541		
355L	2			630		75	140	20	67.5												424	1511		
	4					95	170	25	86												454	1541		

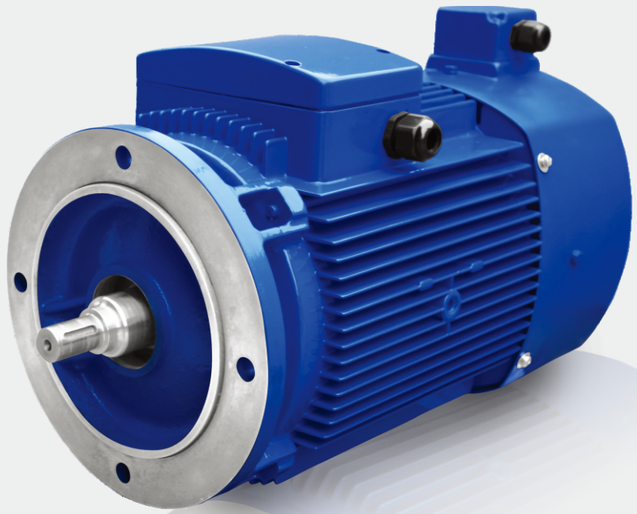






SAFESAV

VFM series variable frequency three-phase asynchronous motor



The **VFM series** variable frequency three-phase asynchronous motor is a fully enclosed independent cooling fan structured motor produced by our company. The frequency converter can achieve stepless speed regulation of the power supply, achieving the purpose of energy conservation and automation control. It is currently one of the advanced AC speed regulation systems, and its power and installation size comply with IEC standards. It is the same as the EM2 series three-phase asynchronous motor and can be matched with various SPWM frequency conversion devices at home and abroad.

Product Features

1) The novel style of the junction box, base, end cover, and fan cover is conducive to noise reduction and ventilation

2) The motor adopts a thermal rating of 155 (F) insulation system to extend its service life.

3) The working system is S1, the cooling method IC411, and the shell protection level IP55 or IP56.

4) It bears excellent starting characteristics.

5) It features low temperature rise, high reliability, high efficiency, strong energy conservation, good safety, strong environmental protection, and nice appearance.

6) It also features high speed regulation accuracy, wide speed regulation range, low vibration, and easy to achieve various automatic controls.

Working Conditions

a) Temperature: The ambient air temperature varies with the season, but the highest temperature is+40 ℃, and the lowest temperature of the ambient air is -15 ℃.

b) Altitude: not exceeding 1000m
Note: When the ambient air temperature and altitude are different from the above regulations, the provisions of IEC60034-1 shall apply.

c) Humidity: The average highest relative humidity in the wettest month is 90%, and the average lowest temperature in that month is not higher than 25 ℃.

d) Rated frequency: 50Hz.

e) Working system: S1

f) Rated voltage: 380V
Note: When there are special requirements for frequency, voltage, ambient air temperature, altitude, etc., please provide them when placing an order.

VFM Product performance data

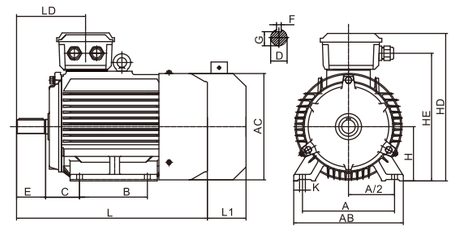
Model	Current	Power		Rated torque (N.m)	Locked-rotor torque	Locked-rotor current	Maximum torque	Weight (kg)
	(A)	KW	HP		Rated torque Tsn/Tn	Rated current Isn/In	Rated torque Tmax/Tn	
VFM-80M1-2	1.9	0.75	1	2.4	2.2	9.0	2.8	29
VFM-80M2-2	2.7	1.1	1.5	3.5	2.2	9.0	2.8	30
VFM-90S-2	3.5	1.5	2	4.8	2.2	9.0	2.8	41.5
VFM-90L-2	4.9	2.2	3	7.0	2.2	9.0	2.8	44.3
VFM-100L-2	6.4	3	4	9.5	2.2	9.0	2.8	51.3
VFM-112M-2	8.3	4	5.5	12.7	2.2	9.0	2.8	59.0
VFM-132S1-2	11.2	5.5	7.5	17.5	2.2	9.0	2.8	95.0
VFM-132S2-2	14.9	7.5	10	23.9	2.2	9.0	2.8	96.0
VFM-160M1-2	21.4	11	15	35.0	2.2	9.0	2.8	131
VFM-160M2-2	28.9	15	20	47.7	2.2	9.0	2.8	140
VFM-160L-2	35.4	18.5	25	58.9	2.2	9.0	2.8	155
VFM-180M-2	41.8	22	30	70.0	2.2	9.0	2.8	224
VFM-200L1-2	56.5	30	40	95.5	2.2	9.0	2.8	290
VFM-200L2-2	69.3	37	50	117.8	2.2	9.0	2.8	300
VFM-225M-2	83.8	45	60	143.2	2.2	9.0	2.8	365
VFM-250M-2	101.9	55	75	175.1	2.2	9.0	2.8	477
VFM-280S-2	138.1	75	100	238.7	1.7	9.0	2.8	505
VFM-280M-2	165.2	90	120	286.5	1.7	9.0	2.8	545
VFM-315S-2	199	110	150	350.1	1.7	9.0	2.8	1001
VFM-315M-2	238.3	132	180	420.2	1.7	9.0	2.8	1094
VFM-315L1-2	284.8	160	215	509.3	1.7	9.0	2.8	1141
VFM-315L2-2	355.2	200	270	636.6	1.7	9.0	2.8	1219
VFM-80M2-4	2.1	0.75	1	4.8	2.0	9.0	2.8	30
VFM-90S-4	2.9	1.1	1.5	7.0	2.0	9.0	2.8	41.3
VFM-90L-4	3.8	1.5	2	9.5	2.0	9.0	2.8	44.4
VFM-100L1-4	5.2	2.2	3	14.0	2.0	9.0	2.8	50.1
VFM-100L2-4	6.9	3	4	19.1	2.0	9.0	2.8	53.8
VFM-112M-4	9	4	5.5	25.5	2.0	9.0	2.8	66.0
VFM-132S-4	12	5.5	7.5	35.0	2.0	9.0	2.8	94.0
VFM-132M-4	16	7.5	10	47.7	2.0	9.0	2.8	104
VFM-160M-4	23	11	15	70.0	2.0	9.0	2.8	138
VFM-160L-4	30.6	15	20	95.5	2.0	9.0	2.8	150
VFM-180M-4	37	18.5	25	117.8	2.0	9.0	2.8	222
VFM-180L-4	43.7	22	30	140.1	2.0	9.0	2.8	233

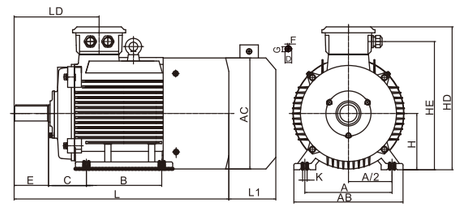
Model	Current	Power		Rated torque (N.m)	Locked-rotor torque	Locked-rotor current	Maximum torque	Weight (kg)
	(A)	KW	HP		Rated torque Tsn/Tn	Rated current Isn/In	Rated torque Tmax/Tn	
VFM-200L-4	59.1	30	40	191.0	2.0	9.0	2.8	298
VFM-225S-4	71.7	37	50	235.5	2.0	9.0	2.8	350
VFM-225M-4	86.7	45	60	286.5	2.0	9.0	2.8	375
VFM-250M-4	105.5	55	75	350.1	2.0	9.0	2.8	494
VFM-280S-4	141.3	75	100	477.5	1.7	9.0	2.8	550
VFM-280M-4	167.1	90	120	573.0	1.7	9.0	2.8	615
VFM-315S-4	201.3	110	150	700.3	1.7	9.0	2.8	1018
VFM-315M-4	241	132	180	840.3	1.7	9.0	2.8	1192
VFM-315L1-4	288	160	215	1018.6	1.7	9.0	2.8	1192
VFM-315L2-4	359.2	200	270	1273.2	1.7	9.0	2.8	1281

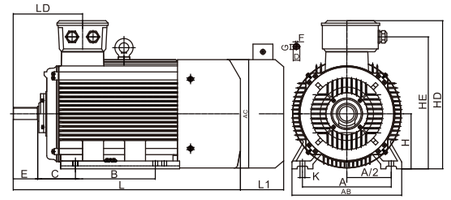
VFM Outline mounting dimension drawing data(B3)

Frame size	Number of pole pairs	Installation dimensions									
		A	A/2	B	C	D	E	F	G	H	K
80M	2.4	125	62.5	100	50	19	40	6	15.5	80	10
90S		140	70		56	24	50	8	20	90	
90L				125							
100L	2	160	80	140	63	28	60		24	100	12
	4										
112M	2	190	95		70					112	
	4										
132S	2	216	108		89	38	80	10	33	132	
132M	2.4			178							
160M		254	127	210	108	42	110	12	37	160	14.5
160L				254							
180M		279	139.5	241	121	48		14	42.5	180	
180L				279							
200L		318	159	305	133	55		16	49	200	
225S	4	356	178	286	149	60	140	18	53	225	18.5
225M	2			311		55	110	16	49		
	4					60	140	18	53		
250M	2	406	203	349	168					250	24
	4					65			58		
280S	2	457	228.5	368	190					280	
	4					75		20	67.5		
280M	2			419		65		18	58		
	4					75		20	67.5		
315S	2	508	254	406	216	65	140	18	58	315	28
	4					80	170	22	71		
315M	2					65	140	18	58		
	4					80	170	22	71		
315L	2					65	140	18	58		
	4					80	170	22	71		

Overall dimensions						
AB	AC	LD	L	HE	HD	L1
160	155	112	284	185	217	62
176	175	125	313	209	245	65
			383			65
200	195	139	380	233	269	60
			434.5			60
226	219	142.5	394	263.5	304	54
			462			54
262	258	175	462.5	303	344	42
						42
314	315	256.5	610	373	420	35
			654			35
349	355	272	687	410	457	35
			725			35
388	397	297	771	450	508	38
431	445	328	809	497	556	75
		298	804			75
		328	834			75
484	484	346.5	909	552	617	75
						75
542	547	356	970	610	675	122
						122
			1021			122
						122
628	620	397	1198	755.5	848	60
		427	1228			60
		397	1308			60
		427	1338			60
		397	1308			60
		427	1338			60







VFM Outline mounting dimension drawing data(B35)

Frame size	Number of pole pairs	Installation dimensions														
		A	A/2	B	C	D	E	F	G	H	K	M	N	P	R	S
80M	2,4	125	62.5	100	50	19	40	6	15.5	80	10	165	130	200	0	12
90S		140	70		56	24	50	8	20	90						
90L				125												
100L	2	160	80	140	63	28	60		24	100	12	215	180	250		14.5
	4															
112M	2	190	95		70					112						
	4															
132S	2,4	216	108		89	38	80	10	33	132		265	230	300		
132M				178												
160M		254	127	210	108	42	110	12	37	160	14.5	300	250	350		
160L				254												
180M		279	139.5	241	121	48		14	42.5	180						
180L				279												
200L		318	159	305	133	55		16	49	200	18.5	350	300	400		
225S	4	356	178	286	149	60	140	18	53	225		400	350	450		18.5
225M	2			311		55	110	16	49							
	4					60	140	18	53							
250M	2	406	203	349	168					250	24	500	450	550		
	4					65			58							
280S	2	457	228.5	368	190			20	67.5	280						
	4					75										
280M	2			419		65		18	58							
	4					75		20	67.5							
315S	2	508	254	406	216	65	140	18	58	315	28	600	550	660		24
	4					80	170	22	71							
315M	2			457		65	140	18	58							
	4					80	170	22	71							
315L	2			508		65	140	18	58							
	4					80	170	22	71							

		Overall dimensions						
T	Number of flange holes	AB	AC	LD	L	HE	HD	L1
3.5	4	160	155	112	284	185	217	62
		176	175	125	313	209	245	65
					383			65
4		200	195	139	380	233	269	60
					434.5			60
		226	219	142.5	394	263.5	304	54
					462			54
		262	258	175	462.5	303	344	42
								42
		314	315	256.5	610	373	420	35
					654			35
		349	355	272	687	410	457	35
					725			35
		388	397	297	771	450	508	38
5	8	431	445	328	809	497	556	75
				298	804			75
				328	834			75
		484	484	346.5	909	552	617	75
								75
		542	547	356	970	610	675	122
								122
					1021			122
								122
6		628	620	397	1198	755.5	848	60
				427	1228			60
				397	1308			60
				427	1338			60
				397	1308			60
				427	1338			60