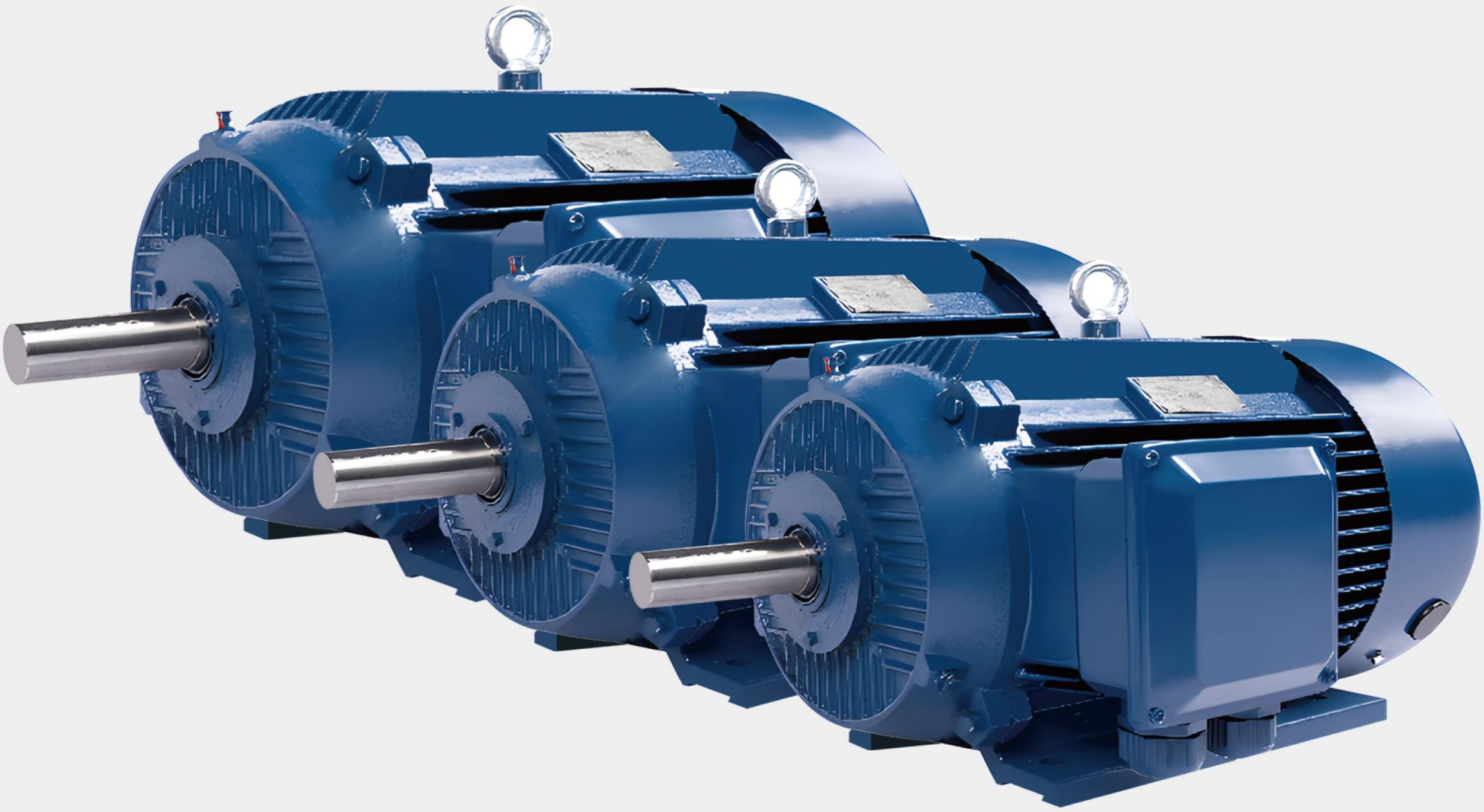
LAEG

YE5 Series

Super Preminum Efficiency Motor



Brief Introductions

YE5 series three-phase asynchronous motor is a fully enclosed, self-fan-cooled, squirrel-cage IE5 efficiency three-phase asynchronous motor, independently developed and launched by our company. It complies with the IE5 energy efficiency level specified in the IEC 60034-30-1 standard and also complies with GB18613-2020 Level 1 standard efficiency specified in "Motor Energy Efficiency Limit Values and Energy Efficiency Levels".

This series has the characteristics of excellent performance, safe and reliable use, lower vibration and lower noise than similar products, and meets environmental protection requirements. This product is at the international leading level.



Applications

YE5 series three-phase asynchronous motors have the characteristics of beautiful appearance, high efficiency, low noise, low vibration, safety and reliability, and easy maintenance. They are widely used in fans, water pumps, air compressors, machine tools, reducers, packaging machinery, washing machinery, mining machinery, construction machinery, etc.



Air Compressors



Packaging Machinery

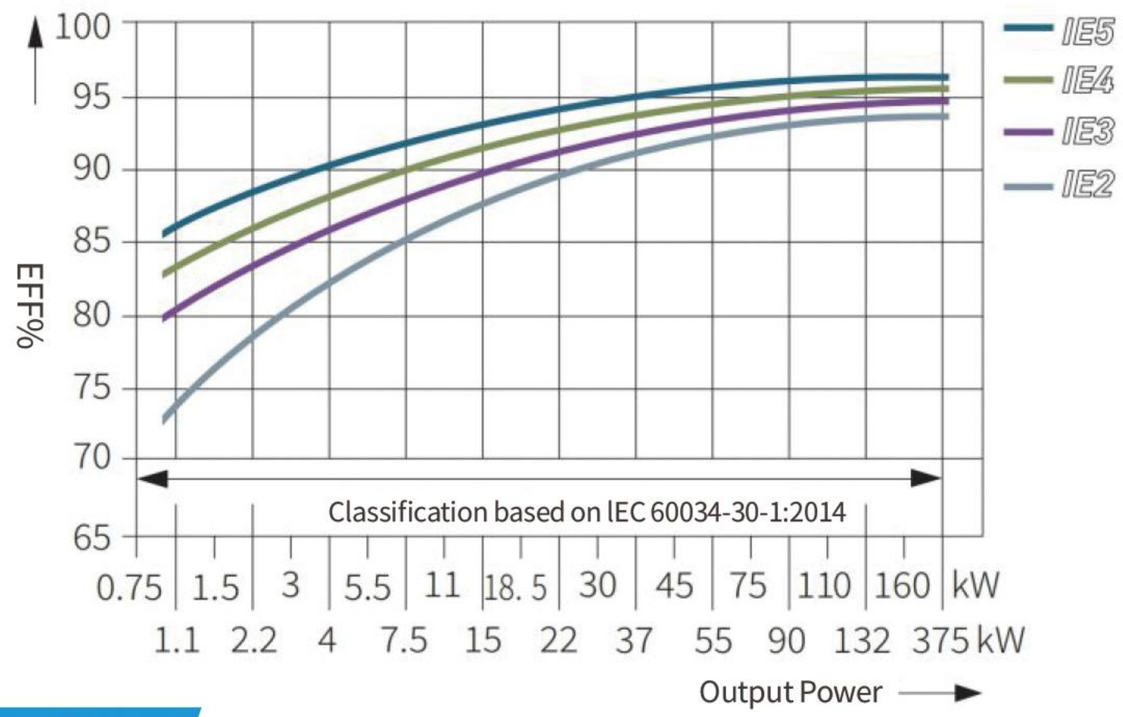


Construction Machinery



Water Pumps

Energy Efficiency Classification Diagram

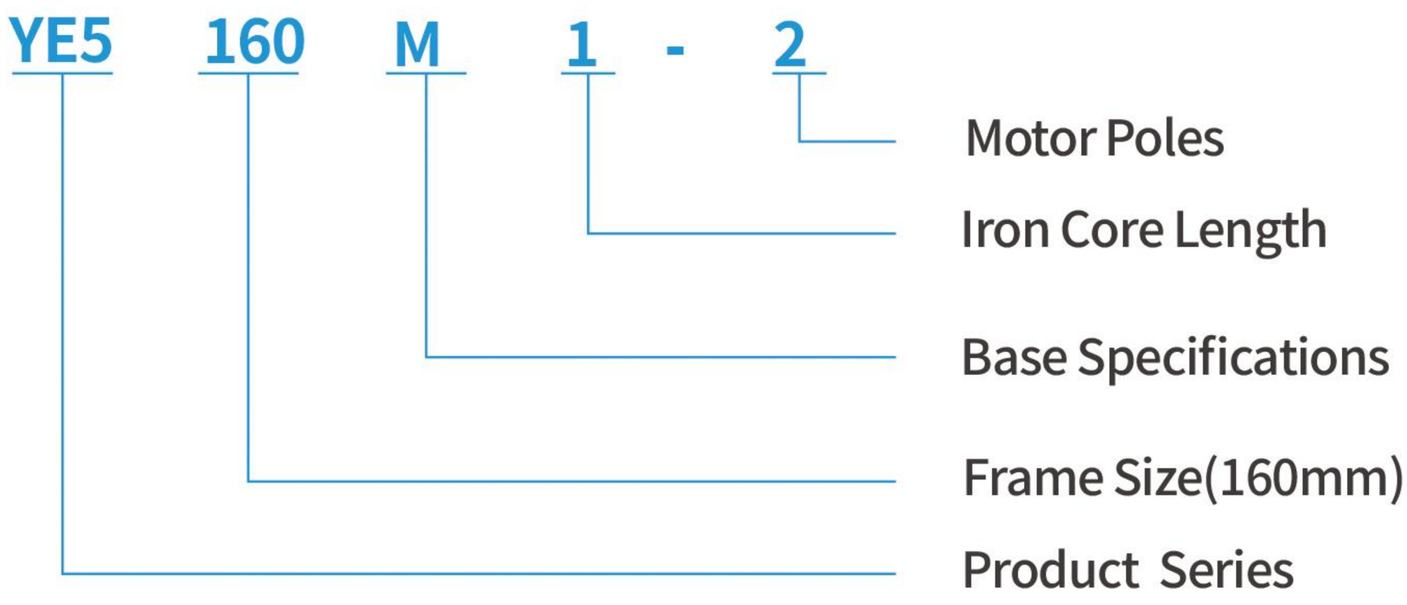


Energy Efficiency Comparison

Minimum efficiency values under 50Hz defined in IEC/EN 60034-30-1

Output	IE3 Efficienay				IE4 High Eficiency				IE5 Premium Efficiency			
kW	2pole	4pole	6pole	8pole	2pole	4pole	6pole	8pole	2pole	4pole	6pole	8pole
0.12	60.8	64.8	57.7	50.7	66.5	69.8	64.9	62.3	71.4	74.3	69.8	67.4
0.18	65.9	69.9	63.9	58.7	70.8	74.7	70.1	67.2	75.2	78.7	74.6	71.9
0.2	67.2	71.1	65.4	60.6	71.9	75.8	71.4	60.4	76.2	79.6	75.7	73
0.25	69.7	73.5	68.6	64.1	74.3	77.9	74.1	70.8	78.3	81.5	78.1	75.2
0.37	73.8	77.3	73.5	69.3	78.1	81.0	78.0	74.3	81.7	84.3	81.6	78.4
0.4	74.6	78.0	74.4	70.1	78.9	81.7	78.7	74.9	82.3	84.8	82.2	78.9
0.55	77.8	80.8	77.2	73.0	81.5	83.9	80.9	77.0	84.6	86.7	84.2	80.6
0.75	80.7	82.5	78.9	75.0	83.5	85.7	82.7	78.4	86.3	88.2	85.7	82.0
1.1	82.7	84.1	81.0	77.7	85.2	87.2	84.5	80.8	87.8	80.5	87.2	84.0
1.5	84.2	85.3	82.5	79.7	86.5	88.2	85.9	82.6	88.9	90.4	88.4	85.5
2.2	85.9	85.7	84.3	81.9	88.0	89.5	87.4	84.5	90.2	91.4	89.7	87.2
3	87.1	87.7	85.6	83.5	89.1	90.4	88.6	85.9	91.1	92.1	90.6	88.4
4	88.1	88.6	86.8	84.8	90.0	91.1	89.5	87.1	91.8	92.8	90.4	89.4
5.5	89.2	89.6	88.0	86.2	90.9	91.9	90.5	88.3	92.6	93.4	92.2	90.4
7.5	90.1	90.4	89.1	87.3	91.7	92.6	91.3	89.3	93.3	94.0	92.9	91.3
11	91.2	91.4	90.3	88.6	92.6	93.3	92.3	90.4	94	94.6	93.7	92.2
15	91.9	92.1	91.2	89.6	93.3	93.9	92.9	91.2	94.5	95.1	94.3	92.9
18.5	92.4	92.6	91.7	90.1	93.7	94.2	93.4	91.7	94.9	95.3	94.6	93.3
22	92.7	93.0	92.2	90.6	94.0	94.5	93.7	92.1	95.1	95.5	94.9	93.6
30	93.3	93.6	92.9	91.3	94.5	94.9	94.2	92.7	95.5	95.9	95.3	94.1
37	93.7	93.9	93.3	91.8	94.8	95.2	94.5	93.1	95.8	96.1	95.6	94.4
45	94.0	94.2	93.7	92.2	95.0	95.4	94.8	93.4	96.0	98.3	95.8	94.7
55	94.3	94.6	94.1	92.5	95.3	95.7	95.1	93.7	96.2	95.5	96.0	94.9
75	94.7	95.0	94.6	83.1	95.6	96.0	95.4	94.2	96.5	96.7	96.3	95.3
90	95.0	95.2	94.9	93.4	95.8	96.1	95.6	94.0	96.6	95.9	96.5	95.5
110	95.2	95.4	95.1	93.7	96.0	96.3	95.8	94.7	96.8	97.0	96.6	95.7
132	95.4	95.6	95.4	94.0	96.2	96.4	95.0	94.9	96.9	97.1	96.8	95.9
160	95.6	95.8	95.6	94.3	95.3	96.6	95.2	95.1	97.0	97.2	96.9	96.1
200	95.8	96.0	95.8	94.6	96.5	96.7	95.3	95.4	97.2	97.4	97.0	96.3
250	95.8	95.0	95.8	94.6	96.5	96.7	95.5	95.4	97.2	97.4	97.0	96.3
315-1000	96.8	96.0	95.8	94.6	96.5	96.7	96.6	95.4	97.2	97.4	97.0	96.3

Model Description



Product Features

Specifications	Standard	Option
Frame Size	H80～H355	-
Rated Power	0.75～375kW	-
Poles	2P, 4P, 6P	8P
Rated Voltage	380V	400V or Customisation On Demand
Frequency	50Hz	60Hz
Efficiency Class	IE5 (GB1)	-
Duty	S1	Customisation On Demand
Installation Method	B3	B5, B35, V1, etc
Insulation Class	Class F (155°C)	Class H (180°C)
Wiring Method	⩽ 3kw/380V: "Y" Connection >3kw/380V:"△" Connection	-
IP Grade	IP55	IP56, IP65, etc
Cooling Method	IC411	IC416, etc
Shell Structure	Cast Iron	-
Junction Box Location	Top Right	Right Side or Left Side
Bearing Lubrication	⩽H180:Maintence-free ⩾H200:Using open type bearings and equipped with an oil filling and draining device	-
Optional Accessories	-	PTC, PT100, Heater, etc
Operating Environment	Environment Temperature:-15°C~+40°C Altitude:<1000m	Customisation On Demand

Technical Data(380V/50Hz)

Design value

Type	Power	Current	Speed	EFF.	P.F.	RT	Locked rotor torque multiple	Maximum torque multiple	Blockage current multiple
	kW	A	rpm	%		N·m	T_{st}/T_N	T_{max}/T_N	I_s/I_N
2-Pole Synchronous Speed 3000rpm-50Hz									
YE5-80M1-2	0.75	1.6	2912	86.3	0.83	2.4	2.3	2.3	9.5
YE5-80M2-2	1.1	2.3	2912	87.8	0.83	3.5	2.2	2.3	9.5
YE5-90S-2	1.5	3	2920	88.9	0.85	4.8	2.2	2.3	9.5
YE5-90L-2	2.2	4.3	2920	90.2	0.86	7.0	2.2	2.3	9.5
YE5-100L-2	3	5.8	2920	91.1	0.87	9.6	2.2	2.3	9.8
YE5-112M-2	4	7.5	2925	9.8	0.88	12.7	2.2	2.3	9.8
YE5-132S1-2	5.5	10.3	2930	92.6	0.88	17.5	2.0	2.3	9.8
YE5-132S2-2	7.5	13.9	2930	93.3	0.89	23.9	2.2	2.3	9.8
YE5-160M1-2	11	20	2960	94.0	0.89	35.0	2.2	2.3	9.8
YE5-160M2-2	15	27.1	2960	94.5	0.89	47.8	2.0	2.3	9.8
YE5-160L-2	18.5	33	2971	94.9	0.89	58.9	2.0	2.3	9.8
YE5-180M-2	22	39.5	2975	95.1	0.89	70.0	2.0	2.3	9.8
YE5-200L1-2	30	53.6	2975	95.5	0.89	95.5	2.0	2.3	9.5
YE5-200L2-2	37	65.9	2978	95.8	0.89	118	2.0	2.3	9.5
YE5-225M-2	45	80	2984	96.0	0.89	143	2.0	2.3	9.5
YE5-250M-2	55	97.6	2984	96.2	0.89	175	2.0	2.3	9.5
YE5-280S-2	75	133	2984	96.5	0.89	239	1.8	2.3	9.5
YE5-280M-2	90	159	2985	96.6	0.89	287	1.8	2.3	9.5
YE5-315S-2	110	194	2985	96.8	0.89	350	1.8	2.3	9.5
YE5-315M-2	132	233	2985	96.9	0.89	420	1.8	2.3	9.5
YE5-315L1-2	160	282	2985	97.0	0.89	509	1.8	2.3	9.5
YE5-315L2-2	200	351	2985	97.2	0.89	637	2.0	2.2	9.5
YE5-355M2-2	250	429	2985	97.2	0.91	796	1.6	2.2	9.5
YE5-355L2-2	315	541	2985	97.2	0.91	1003	1.6	2.2	9.5
YE5-3551-2	355	610	2985	97.2	0.91	1130	1.6	2.2	9.5
YE5-3552-2	375	648	2980	97.2	0.91	1194	1.6	2.2	9.5
4-Pole Synchronous Speed 1500rpm-50Hz									
YE5-80M2-4	0.75	1.8	1450	88.2	0.74	4.8	2.3	2.3	9.5
YE5-90S-4	1.1	2.5	1452	89.5	0.75	7.0	2.3	2.3	9.5
YE5-90L-4	1.5	3.3	1452	90.4	0.76	9.6	2.3	2.3	9.5
YE5-100L1-4	2.2	4.6	1465	91.4	0.79	14.0	2.3	2.3	9.5
YE5-100L2-4	3	6.2	1465	92.1	0.8	19.1	2.3	2.3	9.5
YE5-112M-4	4	8.2	1465	92.8	0.8	25.5	2.0	2.3	9.5
YE5-132S-4	5.5	11.2	1475	93.4	0.8	35.0	2.0	2.3	9.5
YE5-132M-4	7.5	15	1475	94.0	0.81	47.8	2.2	2.3	9.5
YE5-160M-4	11	21.3	1481	94.6	0.83	70.0	2.2	2.3	9.5
YE5-160L-4	15	28.5	1481	95.1	0.84	95.5	2.0	2.3	9.5
YE5-180M-4	18.5	34.7	1485	95.3	0.85	118	2.0	2.3	9.5
YE5-180L-4	22	41.0	1485	95.5	0.85	140	2.0	2.3	9.5
YE5-200L-4	30	55.9	1486	95.9	0.85	191	2.0	2.3	9.5
YE5-225S-4	37	68.8	1488	96.1	0.85	236	2.0	2.3	9.5
YE5-225M-4	45	83.5	1488	96.3	0.85	287	2.0	2.3	9.5
YE5-250M-4	55	101	1491	96.5	0.86	350	2.0	2.3	9.5
YE5-280S-4	75	135	1491	96.7	0.87	478	2.0	2.3	9.5
YE5-280M-4	90	160	1491	96.9	0.88	573	2.0	2.3	9.5
YE5-315S-4	110	194	1491	97.0	0.89	700	2.0	2.2	9.5
YE5-315M-4	132	232	1491	97.1	0.89	840	2.0	2.2	9.5
YE5-315L1-4	160	278	1491	97.2	0.90	1019	1.8	2.2	9.5
YE5-315L2-4	200	347	1491	97.4	0.90	1273	2.0	2.2	9.5
YE5-355M2-4	250	433	1491	97.4	0.90	1592	2.0	2.2	9.5
YE5-355L2-4	315	546	1491	97.4	0.90	2006	2.0	2.2	9.5
YE5-3551-4	355	629	1491	97.4	0.90	2260	1.7	2.2	9.5
YE5-3552-4	375	665	1491	97.4	0.90	2388	1.7	2.2	9.5
6-Pole Synchronous Speed 1000rpm-50Hz									
YE5-90S-6	0.75	1.9	960	85.7	0.70	7.2	2.0	2.1	9.5
YE5-90L-6	1.1	2.7	960	87.2	0.70	10.5	2.0	2.1	9.5
YE5-100L-6	1.5	3.6	972	88.4	0.71	14.3	2.0	2.1	9.5
YE5-112M-6	2.2	5.2	975	89.7	0.71	21.0	2.0	2.1	9.5
YE5-132S-6	3	7.1	977	90.6	0.71	28.7	2.0	2.1	9.5
YE5-132M1-6	4	9.2	977	91.4	0.72	38.2	2.0	2.1	9.5
YE5-132M2-6	5.5	12.6	985	92.2	0.72	52.5	2.0	2.1	9.5
YE5-160M-6	7.5	16.1	985	92.9	0.76	71.6	2.0	2.1	9.5
YE5-160L-6	11	23.2	989	93.7	0.77	105	2.0	2.1	9.5
YE5-180L-6	15	30.2	989	94.3	0.80	143	2.0	2.1	9.5
YE5-200L1-6	18.5	37.1	989	94.6	0.80	177	2.0	2.1	9.5
YE5-200L2-6	22	43.5	991	94.9	0.81	210	2.0	2.1	9.5

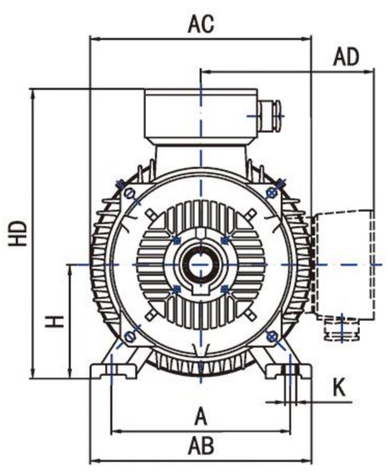
Technical Data(380V/50Hz)

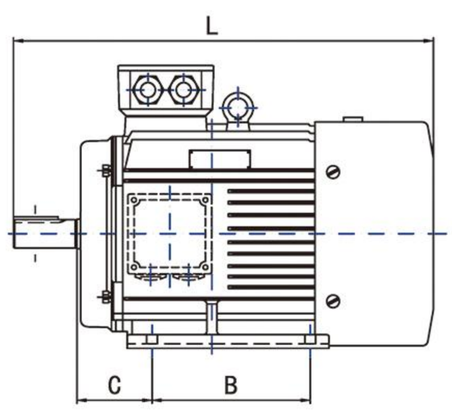
Design value

Type	Power	Current	Speed	EFF.	P.F.	RT	Locked rotor torque multiple	Maximum torque multiple	Blockage current multiple
	kW	A	rpm	%		N·m	T_{st}/T_N	T_{max}/T_N	I_S/I_N
YE5-225M-6	30	58.3	991	95.3	0.82	287	2.0	2.1	9.5
YE5-250M-6	37	70.8	992	95.6	0.83	353	2.0	2.1	9.5
YE5-280S-6	45	86	992	95.8	0.84	430	2.0	2.0	9.5
YE5-280M-6	55	104	992	96.0	0.84	525	1.8	2.0	9.5
YE5-315S-6	75	141	992	96.3	0.85	716	2.0	2.0	9.5
YE5-315M-6	90	167	992	96.5	0.85	860	2.0	2.0	9.5
YE5-315L1-6	110	204	992	96.6	0.86	1051	2.0	2.0	9.5
YE5-315L2-6	132	241	992	96.8	0.86	1261	2.0	2.0	9.5
YE5-355M1-6	160	292	993	96.9	0.86	1528	1.8	2.0	9.5
YE5-355M3-6	200	364	993	97.0	0.86	1910	1.8	2.0	9.5
YE5-355L3-6	250	455	993	97.0	0.86	2388	1.8	2.0	9.5
YE5-3552-6	315	574	990	97.0	0.86	3008	1.8	2.0	9.5
8-Pole Synchronous Speed 750rpm-50Hz									
YE5-100L1-8	0.75	2.1	715	82.0	0.66	9.6	2.0	2.0	9.5
YE5-100L2-8	1.1	3	715	84.0	0.67	14	2.0	2.0	9.5
YE5-112M-8	1.5	3.9	720	85.5	0.69	19.1	2.0	2.0	9.5
YE5-132S-8	2.2	5.5	730	87.2	0.70	28	2.0	1.8	9.5
YE5-132M-8	3	7.4	730	88.4	0.70	38.2	2.0	1.8	9.5
YE5-160M1-8	4	9.6	735	89.4	0.71	50.9	2.0	1.8	9.5
YE5-160M2-8	5.5	12.8	735	90.4	0.72	70	2.0	1.8	9.5
YE5-160L-8	7.5	16.3	735	91.3	0.74	95.5	2.0	1.8	9.5
YE5-180L-8	11	24.5	740	92.2	0.74	140	2.0	1.8	9.5
YE5-200L-8	15	32.7	740	92.9	0.75	191	2.0	1.8	9.5
YE5-225S-8	18.5	40.2	740	93.3	0.75	236	2.0	1.8	9.5
YE5-225M-8	22	47	740	93.6	0.76	280	2.0	1.8	9.5
YE5-250M-8	30	62.9	743	94.1	0.77	382	2.0	1.8	9.5
YE5-280S-8	37	76	743	94.4	0.78	471	2.0	1.8	9.5
YE5-280M-8	45	93	743	94.7	0.78	573	2.0	1.8	9.5
YE5-315S-8	55	110	745	94.9	0.80	700	2.0	1.6	9.5
YE5-315M-8	75	149	745	95.3	0.80	955	2.0	1.6	9.5
YE5-315L1-8	90	177	745	95.5	0.81	1146	2.0	1.6	9.5
YE5-315L2-8	110	216	745	95.7	0.81	1401	2.0	1.6	9.5
YE5-355M2-8	132	258	745	95.9	0.81	1681	2.0	1.6	9.5
YE5-355M3-8	160	308	745	96.1	0.82	2037	2.0	1.6	9.5
YE5-355L2-8	185	356	745	96.2	0.82	2356	2.0	1.6	9.5
YE5-355L3-8	200	385	745	96.3	0.82	2547	2.0	1.6	9.5
YE5-355L-8	220	434	745	96.3	0.80	2801	2.0	1.6	9.5
YE5-355L4-8	250	493	745	96.3	0.80	3183	2.0	1.6	9.5

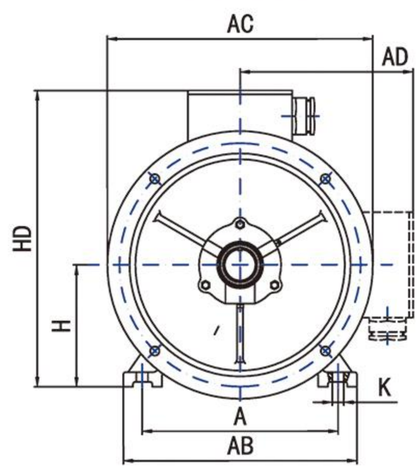
External and Mounting Dimensions

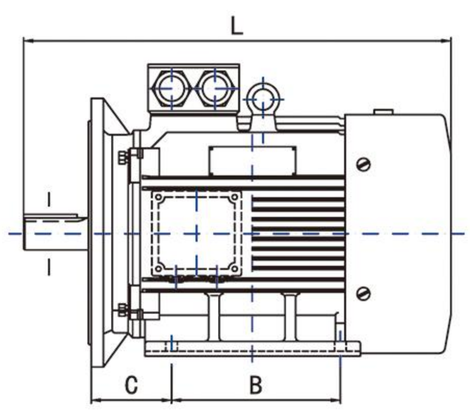
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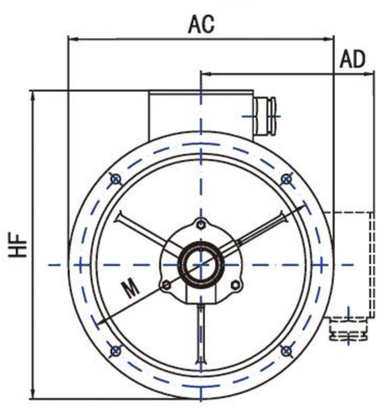


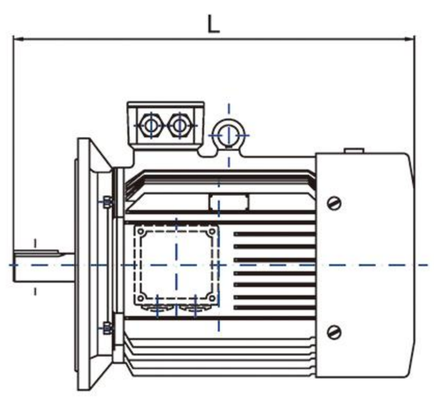
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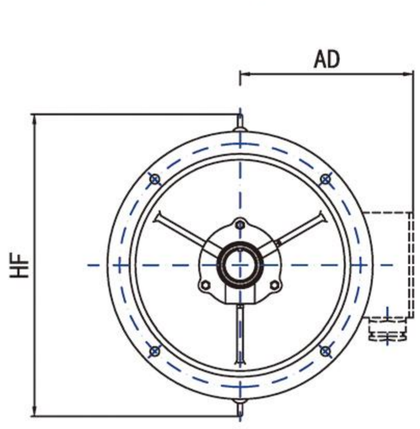


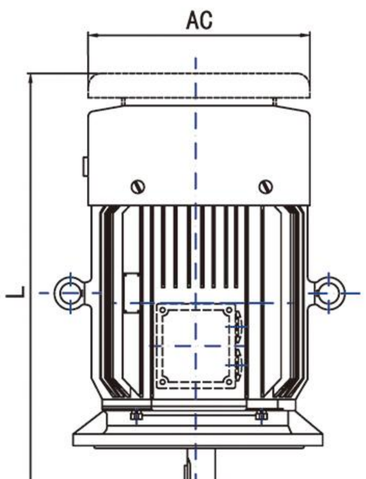
IM B5





IM V1

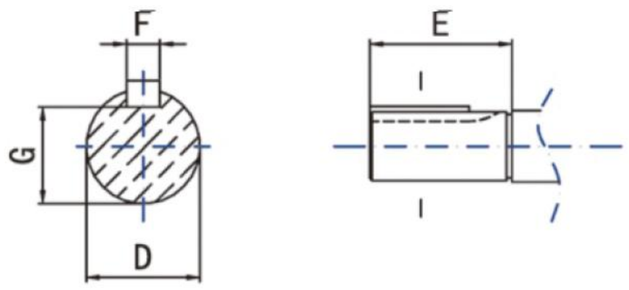




mm

Frame	External and Mounting Dimensions											L			
												2p		⩾4p	
	A	B	C	H	K	AB	AC	AD	HD	HF1	HF2	other	V1	other	V1
80M	125	100	50	80	10	160	170	150	230	250		323	368	323	368
90S	140	100	56	90	10	176	185	153	243	253	——	386	431	386	431
90L	140	125	56	90	10	176	185	153	243	253		416	461	416	461
100L	160	140	63	100	12	200	220	180	280	305	292	427	472	427	472
112M	190	140	70	112	12	226	240	198	310	323	318	466	516	466	516
132S	216	140	89	132	12	262	300	225	357	375	394	521	576	521	576
132M	216	178	89	132	12	262	300	225	357	375	394	559	614	559	614
160M	254	210	108	160	14.5	314	340	265	425	440	457	718	778	718	778
160L	254	254	108	160	14.5	314	340	265	425	440	457	763	823	745	805
180M	279	241	121	180	14.5	349	385	285	465	460	494	798	858	785	845
180L	279	279	121	180	14.5	349	385	285	465	460	494	798	858	785	845
200L	318	305	133	200	18.5	390	430	315	515	515	544	878.5	948.5	878.5	948.8
225S	356	286	149	225	18.5	431	470	340	565	565	592	——		900	990
225M	356	311	149	225	18.5	431	470	340	565	565	592	890	980	920	1010
250M	406	349	168	250	24	484	510	390	640	665	688	1030	1135	1030	1135
280S	457	368	190	280	24	542	570	420	700	695	721	1049	1164	1049	1164
280M	457	419	190	280	24	542	570	420	700	695	721	1109	1224	1109	1224
315S	508	406	216	315	28	628	625	530	845	860	920	1202	1322	1232	1352
315M,L	508	457	216	315	28	628	625	530	845	860	920	1313	1433	1343	1463
315L2-4/L2-6	508	508	216	315	28	628	625	530	845	1040	920	——		1403	1523
355:M1-2/M2-2	610	630	254	355	28	726	700	640	995	1040	1140	1491	1631	——	
355M1-4/M2-4/M3-6/L1-6/L3-6	610	630	254	355	28	726	700	640	995	1040	1140	——		1621	1761
355:M1-6/M2-6	610	630	254	355	28	726	700	640	995	1040	1140			1521	1661
355:L1-2/L2-2	610	630	254	355	28	726	700	640	995	1040	1140	1591	1731	——	
355:L1-4/L2-4/L3-4/L4-6	610	630	254	355	28	726	700	640	995	1040	1140	——		1671	1811

Shaft Dimensions

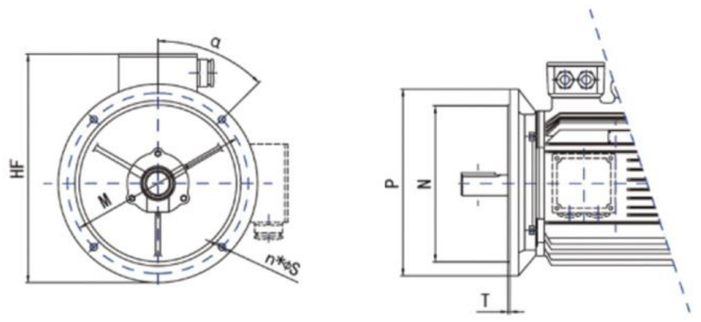


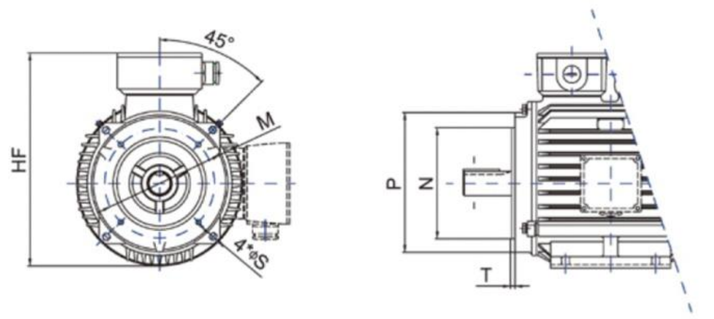
mm

Frame	Poles	Shaft Dimensions			
		D	E	F	G
80	⩾2	19	40	6	15.5
90	⩾2	24	50	8	20
100	⩾2	28	60	8	24
112	⩾2	28	60	8	24
132	⩾2	38	80	10	33
160	⩾2	42	110	12	37
180	⩾2	48	110	14	42.5
200	⩾2	55	110	16	49
225	2	55	110	16	49
225	⩾2	60	140	18	53

Frame	Poles	Shaft Dimensions			
		D	E	F	G
250	2	60	140	18	53
	⩾4	65	140	18	58
280	2	65	140	18	58
	⩾4	75	140	20	67.5
315	2	65	140	18	58
	⩾4	80	170	22	71
355M,L	2	75	140	20	67.5
	⩾4	95	170	25	86
355	2	80	170	22	71
	⩾4	110	210	28	100

Flange Dimensions





mm

Frame	Flange	B35, B5, V1 Flanges					
		M	N	P	T	α	n*ΦS
80,90	FF165	130	130	200	3.5	45	4*12
100,112	FF215	180	180	250	4	45	4*14.5
132	FF265	230	230	300	4	45	4*14.5
160,180	FF300	250	250	350	5	45	4*18.5
200	FF350	300	300	400	5	45	4*18.5
225	FF400	350	350	450	5	22.5	8*18.5
250,280	FF500	450	450	550	5	22.5	8*18.5
315	FF600	550	550	660	6	22.5	8*24
355M,L	FF740	680	680	800	6	22.5	8*24
355	FF840	780	780	900	6	22.5	8*24

Frame	Flange	B35, B5 Flanges				
		M	N	P	S	T
80	FT100	100	80	120	M6	3
90	FT115	115	95	140	M8	3
100,112	FT130	130	110	160	M8	3.5



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