

Product sheet reference #	101
Revision date	10/2021
Category	Electric motors
Sub-category	Standard electric motors



High performance electric motors

YX3 Series: three-phase asynchronous

01. Introduction

The YX3 series is the range of our three-phase asynchronous high performance standard electric motors (IE2).

Our company have these electric motors manufactured with the most advanced technologies for both the European and Chinese markets.

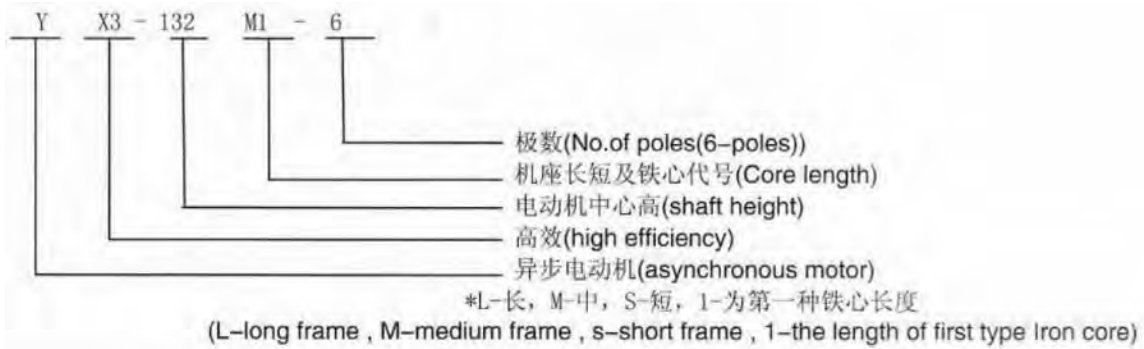
These engines that we design and develop meet the most demanding standards and international standards, particularly regarding conservation value level of motor energy 2 specified in the standard GB18613-2006 - on small and medium power rotating machines, three phases, asynchronous.

These engines also comply with various directives:

- GB/T10686-2006
- IC411 - on cooling
- DIN42673 on mounting and power



02. Description of motor designation



03. Terms of use

Ambient air temperature: -15°C to 40°C

Altitude: 1000m maximum

Frequency: 50HZ Poles: 2 to 12

Voltage: 380V, 660V, 1140V, 380/660V, 660/1140V

Power: 0,18KW to 355KW

Service Condition: S1 Cooling: IC411 (air)

IP44/54 protection

Color: Blue RAL5021 / Horizontal mounting (other possible mounting)



04. Technical specifications

电机型号 Motor Type	功率 Rate Power		电流 Current		额定 转速 Rated Speed	功率 因数 Power Factor	效率 Eff	堵转电流 额定电流	堵转转矩 额定转矩	最大转矩 额定转矩	转动惯量 Moment of inertia	重量 Weight
	kW	HP	380V A	400V A	r/min	cos φ	η %	Locked Current Rated Current	Locked Torque Rated Torque	Maximum Torque Rated Torque	J kg·m ²	kg
YX3-80M1-2	0.75	1	1.77	1.68	2840	0.83	77.5	6.8	2.3	2.3	0.0010	24
YX3-80M2-2	1.1	1.5	2.43	2.31	2840	0.83	82.8	7.3	2.3	2.3	0.0014	25
YX3-80M1-4	0.55	0.75	1.38	1.31	1390	0.75	80.7	6.3	2.3	2.3	0.0020	25
YX3-80M2-4	0.75	1	1.85	1.75	1390	0.75	82.3	6.5	2.3	2.3	0.0026	27
YX3-80M1-6	0.37	0.5	1.27	1.21	885	0.70	63.0	4.0	1.9	2.1	0.0023	20
YX3-80M2-6	0.55	0.75	1.54	1.46	885	0.72	75.4	4.0	1.9	2.1	0.0031	25
YX3-80M1-8	0.18	0.24	0.86	0.82	645	0.61	52.0	3.3	1.8	1.9	0.0029	20
YX3-80M2-8	0.25	0.33	1.13	1.08	645	0.61	55.0	3.3	1.8	1.9	0.0035	22
YX3-90S-2	1.5	2	3.23	3.06	2840	0.84	84.1	7.6	2.3	2.3	0.0022	35
YX3-90L-2	2.2	3	4.59	4.36	2840	0.85	85.6	7.8	2.3	2.3	0.0028	38
YX3-90S-4	1.1	1.5	2.66	2.53	1390	0.75	83.8	6.6	2.3	2.3	0.0039	34
YX3-90L-4	1.5	2	3.58	3.40	1390	0.75	85.0	6.9	2.3	2.3	0.0052	41
YX3-90S-6	0.75	1	2.04	1.94	910	0.72	77.7	5.8	2.1	2.1	0.0051	39
YX3-90L-6	1.1	1.5	2.87	2.72	910	0.73	79.9	5.9	2.1	2.1	0.0074	41
YX3-90S-8	0.37	0.5	1.44	1.37	670	0.62	63.0	4.0	1.8	2	0.0046	28
YX3-90L-8	0.55	0.75	1.79	1.70	670	0.63	74.0	4.0	1.8	2	0.0061	30

电机型号 Motor Type	功率 Rate Power		电流 Current		额定 转速 Rated Speed	功率 因数 Power Factor	效率 Eff	堵转电流 额定电流	堵转转矩 额定转矩	最大转矩 额定转矩	转动惯量 Moment of inertia	重量 Weight
	kW	HP	380V A	400V A	r/min	cos φ	η %	Locked Current Rated Current	Locked Torque Rated Torque	Maximum Torque Rated Torque	J kg · m ²	kg
YX3-100L-2	3	4	6.04	5.74	2860	0.87	86.7	8.1	2.3	2.3	0.004	44
YX3-100L1-4	2.2	3	4.78	4.54	1410	0.81	86.4	7.5	2.3	2.3	0.010	45
YX3-100L2-4	3	4	6.36	6.04	1410	0.82	87.4	7.6	2.3	2.3	0.012	51
YX3-100L-6	1.5	2	3.78	3.59	920	0.74	81.5	6.0	2.1	2.1	0.013	45
YX3-100L1-8	0.75	1	2.26	2.15	680	0.68	74.0	4.0	1.8	2.0	0.008	40
YX3-100L2-8	1.1	1.5	3.15	2.99	680	0.69	77.0	4.0	1.8	2.0	0.010	46
YX3-112M-2	4	5.5	7.88	7.49	2880	0.88	87.6	8.3	2.3	2.3	0.006	54
YX3-112M-4	4	5.5	8.39	7.97	1435	0.82	88.3	7.7	2.3	2.3	0.019	62
YX3-112M-6	2.2	3	5.42	5.15	935	0.74	83.4	6.0	2.1	2.1	0.019	57
YX3-112M-8	1.5	2	4.00	3.80	690	0.69	82.5	4.0	1.8	2.0	0.015	57
YX3-132S1-2	5.5	7.5	10.72	10.18	2900	0.88	88.6	8.0	2.2	2.3	0.013	81
YX3-132S2-2	7.5	10	14.31	13.59	2900	0.89	89.5	7.8	2.2	2.3	0.016	89
YX3-132S-4	5.5	7.5	11.42	10.85	1440	0.82	89.2	7.5	2.0	2.3	0.034	85
YX3-132M-4	7.5	10	15.24	14.48	1440	0.83	90.1	7.4	2.0	2.3	0.045	99
YX3-132S-6	3	4	7.26	6.89	960	0.74	84.9	6.2	2.0	2.1	358.375	84
YX3-132M1-6	4	5.5	9.54	9.06	960	0.74	86.1	6.8	2.0	2.1	0.048	92
YX3-132M2-6	5.5	7.5	12.75	12.11	960	0.75	87.4	7.1	2.0	2.1	0.063	104
YX3-132S-8	2.2	3	5.45	5.18	705	0.73	84.0	5.5	1.8	2.2	0.031	83
YX3-132M-8	3	4	7.30	6.94	705	0.73	85.5	5.5	1.8	2.2	0.043	95
YX3-160M1-2	11	15	20.75	19.71	2930	0.89	90.5	7.9	2.2	2.3	0.048	142
YX3-160M2-2	15	20	28.05	26.65	2930	0.89	91.3	8.0	2.2	2.3	0.060	152
YX3-160L-2	18.5	25	34.40	32.68	2930	0.89	91.8	8.1	2.2	2.3	0.071	169
YX3-160M-4	11	15	21.61	20.53	1460	0.85	91.0	7.5	2.2	2.3	0.095	154
YX3-160L-4	15	20	28.87	27.42	1460	0.86	91.8	7.5	2.2	2.3	0.121	171
YX3-160M-6	7.5	10	16.42	15.59	970	0.78	89.0	6.7	2.1	2.1	0.116	171
YX3-160L-6	11	15	23.51	22.33	970	0.79	90.0	6.9	2.1	2.1	0.153	180

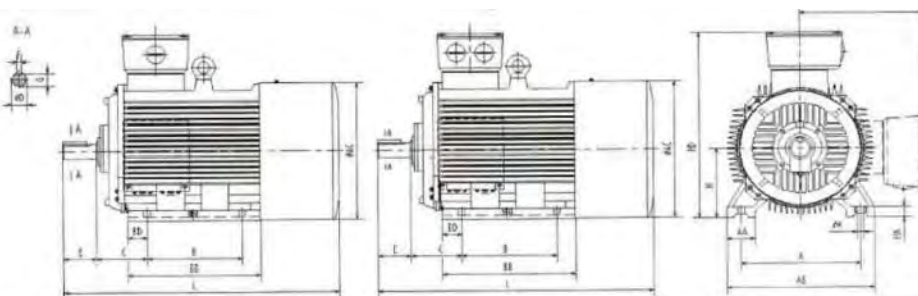
电机型号 Motor Type	功率 Rate Power		电流 Current		额定 转速 Rated Speed	功率 因数 Power Factor	效率 Eff	堵转电流 额定电流	堵转转矩 额定转矩	最大转矩 额定转矩	转动惯量 Moment of intertia	重量 Weight
	kW	HP	380V A	400V A	r/min	cos φ	η %	Locked Current Rated Current	Locked Torque Rated Torque	Maximum Torque Rated Torque	J kg · m ²	kg
YX3-160M1-8	4	5.5	9.74	9.25	720	0.73	85.5	6.0	1.9	2.2	0.064	158
YX3-160M2-8	5.5	7.5	13.03	12.38	720	0.75	85.5	6.0	1.9	2.2	0.090	180
YX3-160L-8	7.5	10	16.94	16.10	720	0.76	88.5	6.0	1.9	2.2	0.127	181
YX3-180M-2	22	30	40.74	38.70	2940	0.89	92.2	8.2	2.2	2.3	0.111	227
YX3-180M-4	18.5	25	35.45	33.68	1470	0.86	92.2	7.7	2.2	2.3	0.173	226
YX3-180L-4	22	30	41.97	39.88	1470	0.86	92.6	7.8	2.2	2.3	0.207	244
YX3-180L-6	15	20	30.92	29.37	970	0.81	91.0	7.2	2.0	2.1	0.258	230
YX3-180L-8	11	15	24.85	23.61	730	0.76	88.5	6.0	1.9	2.2	0.214	228
YX3-200L1-2	30	40	55.13	52.37	2950	0.89	92.9	7.5	2.2	2.3	0.166	295
YX3-200L2-2	37	50	67.70	64.32	2950	0.89	93.3	7.5	2.2	2.3	0.195	317
YX3-200L-4	30	40	56.87	54.03	1470	0.86	93.2	7.2	2.2	2.3	0.323	340
YX3-200L1-6	18.5	25	37.93	36.03	980	0.81	91.5	7.2	2.1	2.1	0.379	309
YX3-200L2-6	22	30	44.31	42.09	980	0.82	92.0	7.3	2.1	2.1	0.449	320
YX3-200L-8	15	20	33.51	31.83	730	0.76	89.5	6.5	2.0	2.2	0.359	294
YX3-225M-2	45	60	81.99	77.89	2960	0.89	93.7	7.6	2.2	2.3	0.264	446
YX3-225S-4	37	50	69.84	66.35	1475	0.86	93.6	7.3	2.2	2.3	0.547	432
YX3-225M-4	45	60	84.67	80.43	1475	0.86	93.9	7.4	2.2	2.3	0.623	451
YX3-225M-6	30	40	60.84	57.79	980	0.81	92.5	7.1	2.0	2.1	0.619	441
YX3-225S-8	18.5	25	40.26	38.25	730	0.78	89.5	6.5	2.0	2.2	0.554	371
YX3-225M-8	22	30	47.09	44.74	730	0.78	91.0	6.5	2.0	2.2	0.651	398
YX3-250M-2	55	75	99.89	94.89	2965	0.89	94.0	7.6	2.2	2.3	0.383	477
YX3-250M-4	55	75	103.2	98.00	1480	0.86	94.2	7.4	2.2	2.3	0.773	567
YX3-250M-6	37	50	71.96	68.36	980	0.84	93.0	7.1	2.1	2.1	0.988	535
YX3-250M-8	30	40	63.40	60.23	735	0.79	91.0	6.5	1.9	2.0	0.988	522
YX3-280S-2	75	100	135.3	128.6	2970	0.89	94.6	6.9	2.0	2.3	0.677	655
YX3-280M-2	90	125	161.7	153.6	2970	0.89	95.0	7.0	2.0	2.3	0.794	733

电机型号 Motor Type	功率 Rate Power		电流 Current		额定 转 速 Rated Speed	功率 因数 Power Factor	效率 Eff %	堵转电流 额定电流	堵转转矩 额定转矩	最大转矩 额定转矩	转动惯量 Moment of inertia	重量 Weight
	kW	HP	380V A	400V A	r/min	cos φ	η %	Locked Current Rated Current	Locked Torque Rated Torque	Maximum Torque Rated Torque	J kg·m ²	kg
YX3-280S-4	75	100	136.7	129.9	1480	0.88	94.7	6.7	2.2	2.3	1.601	670
YX3-280M-4	90	125	163.6	155.4	1480	0.88	95.0	6.9	2.2	2.3	1.944	785
YX3-280S-6	45	60	85.0	80.8	980	0.86	93.5	7.2	2.1	2.0	1.709	643
YX3-280M-6	55	75	103.6	98.4	980	0.86	93.8	7.2	2.1	2.0	2.107	735
YX3-280S-8	37	50	77.6	73.7	735	0.79	91.7	6.0	1.8	2.0	1.709	626
YX3-280M-8	45	60	94.4	89.7	735	0.79	91.7	6.0	1.8	2.0	1.988	722
YX3-315S-2	110	150	195.5	185.7	2975	0.90	95.0	7.1	2.0	2.2	1.539	1140
YX3-315M-2	132	180	233.6	221.9	2975	0.90	95.4	7.1	2.0	2.2	1.735	1170
YX3-315L1-2	160	220	280.0	266.0	2975	0.91	95.4	7.1	2.0	2.2	1.986	1385
YX3-315L2-2	200	270	350.0	332.5	2975	0.91	95.4	7.1	2.0	2.2	2.210	1610
YX3-315S-4	110	150	199.1	189.1	1480	0.88	95.4	6.9	2.2	2.2	3.228	1171
YX3-315M-4	132	180	238.9	227.0	1480	0.88	95.4	6.9	2.2	2.2	3.599	1217
YX3-315L1-4	160	220	286.3	272.0	1480	0.89	95.4	6.9	2.2	2.2	4.181	1350
YX3-315L2-4	200	270	357.9	340.0	1480	0.89	95.4	6.9	2.2	2.2	4.975	1572
YX3-315S-6	75	100	142.3	135.2	985	0.85	94.2	6.7	2.0	2.0	3.929	1095
YX3-315M-6	90	125	172.3	163.7	985	0.84	94.5	6.7	2.0	2.0	4.280	1153
YX3-315L1-6	110	150	207.0	196.6	985	0.85	95.0	6.7	2.0	2.0	5.473	1330
YX3-315L2-6	132	180	245.5	233.2	985	0.86	95.0	6.7	2.0	2.0	6.596	1485
YX3-315S-8	55	75	110.9	105.4	735	0.81	93.0	6.5	1.8	2.0	3.960	955
YX3-315M-8	75	100	151.3	143.7	735	0.81	93.0	6.5	1.8	2.0	5.280	1160
YX3-315L1-8	90	125	180.4	171.3	735	0.81	93.6	6.5	1.8	2.0	6.270	1238
YX3-315L2-8	110	150	217.8	206.9	735	0.82	93.6	6.5	1.8	2.0	7.425	1362
YX3-315S-10	45	60	99.6	94.7	590	0.75	91.5	6.0	1.5	2.0	3.877	1042
YX3-315M-10	55	75	121.1	115.1	590	0.75	92.0	6.0	1.5	2.0	4.785	1157
YX3-315L1-10	75	100	162.1	154.0	590	0.76	92.5	6.0	1.5	2.0	6.187	1310
YX3-315L2-10	90	125	191.0	181.4	590	0.77	93.0	6.0	1.5	2.0	7.260	1385

电机型号 Motor Type	功率 Rate Power		电流 Current		额定 转速 Rated Speed	功率 因数 Power Factor	效率 Eff %	堵转电流 额定电流	堵转转矩 额定转矩	最大转矩 额定转矩	转动惯量 Moment of inertia	重量 Weight
	kW	HP	380V A	400V A								
YX3-355S1-2	185	250	323.8	307.6	2980	0.91	95.4	7.1	2.0	2.2	2.395	1650
YX3-355S2-2	200	270	350.0	332.5	2980	0.91	95.4	7.1	2.0	2.2	2.748	1650
YX3-355M1-2	220	165	385.0	365.8	2980	0.91	95.4	7.1	2.0	2.2	2.827	1680
YX3-355M2-2	250	340	435.7	413.9	2980	0.91	95.8	7.1	2.0	2.2	3.259	1720
YX3-355L1-2	280	380	488.0	463.6	2980	0.91	95.8	7.1	2.0	2.2	3.337	1780
YX3-355L2-2	315	430	549.0	521.5	2980	0.91	95.8	7.1	2.0	2.2	4.005	1850
YX3-355S1-4	185	250	331.1	314.5	1490	0.89	95.4	6.9	2.2	2.2	6.111	1620
YX3-355S2-4	200	270	357.9	340.0	1490	0.89	95.4	6.9	2.2	2.2	6.650	1620
YX3-355M1-4	220	165	389.3	369.8	1490	0.90	95.4	6.9	2.2	2.2	7.279	1690
YX3-355M2-4	250	340	440.6	418.5	1490	0.90	95.8	6.9	2.2	2.2	8.088	1750
YX3-355L1-4	280	380	493.4	468.8	1490	0.90	95.8	6.9	2.2	2.2	8.987	1800
YX3-355L2-4	315	430	555.1	527.3	1490	0.90	95.8	6.9	2.2	2.2	10.245	1850
YX3-355S-6	160	220	294.1	279.4	990	0.87	95.0	6.7	2.0	2.0	9.189	1610
YX3-355M1-6	185	250	340.1	323.1	990	0.87	95.0	6.7	2.0	2.0	10.097	1750
YX3-355M2-6	200	270	367.7	349.3	990	0.87	95.0	6.7	2.0	2.0	11.344	1750
YX3-355L1-6	220	165	404.4	384.2	990	0.87	95.0	6.7	2.0	2.0	12.479	1800
YX3-355L2-6	250	340	459.6	436.6	740	0.87	95.0	6.7	2.0	2.0	18.084	1850
YX3-355S-8	132	180	259.9	246.9	740	0.82	94.1	6.5	1.8	2.0	11.428	1620
YX3-355M-8	160	220	315.1	299.3	740	0.82	94.1	6.5	1.8	2.0	13.936	1710
YX3-355L1-8	185	250	364.3	346.1	740	0.82	94.1	6.5	1.8	2.0	16.166	1900
YX3-355L2-8	200	270	387.4	368.1	590	0.83	94.5	6.5	1.8	2.0	18.117	2000
YX3-355S-10	90	125	191.0	181.4	590	0.77	93.0	6.0	1.5	2.0	9.354	1450
YX3-355M1-10	110	150	229.9	218.4	590	0.78	93.2	5.5	1.3	2.0	11.448	1500
YX3-355M2-10	132	180	275.0	261.3	590	0.78	93.5	5.5	1.3	2.0	13.961	1600
YX3-355L1-10	160	220	333.3	316.7	590	0.78	93.5	5.5	1.3	2.0	17.312	1700
YX3-355L2-10	185	250	385.4	366.1	590	0.78	93.5	5.5	1.3	2.0	19.965	1800

05. Mounting and dimensions

B3



机座号 Frame	极数 Poles	A	B	C	D	E	F	G	H	K	AA	AB	AC	AD	BB	BD	HA	HD	L
80M	2~8	125	100	50	19	40	6	15.5	80	10	35	165	165	180	130	14	10	225	320
90S	2~8	140	100	56	24	50	8	20	90	10	36	180	180	180	135	15	14	245	355
90L	2~8	140	125	56	24	50	8	20	90	10	36	180	180	180	160	15	14	245	380
100L	2~8	160	140	63	28	60	8	24	100	12	43	200	205	180	180	17	14	170	435
112M	2~8	190	140	70	28	60	8	24	112	12	50	245	230	200	180	20	16	305	445
132S	2~8	216	140	89	38	80	10	33	132	12	60	280	270	200	190	28	18	350	490
132M	2~8	216	178	89	38	80	10	33	132	12	60	280	270	200	230	28	18	350	520
160M	2~8	254	210	108	42	110	12	37	160	14.5	70	330	325	220	260	24	25	425	645
160L	2~8	254	254	108	42	110	12	37	160	14.5	70	330	325	220	310	24	25	425	685
180M	2~4	279	241	121	48	110	14	42.5	180	14.5	70	355	360	220	311	36	22	460	720
180L	4~8	279	279	121	48	110	14	42.5	180	14.5	70	355	360	220	349	36	22	460	740
200L	2~8	318	305	133	55	110	16	49	200	18.5	70	390	400	250	366	32	25	510	805
225S	4~8	356	286	149	60	140	18	53	225	18.5	75	435	450	250	355	35	28	555	865
225M	2	356	311	149	55	110	16	49	225	18.5	75	435	450	250	380	35	28	555	860
	4~8	356	311	149	60	140	18	53	225	18.5	75	435	450	250	380	35	28	555	890
250M	2	406	349	168	60	140	18	53	250	24	80	490	500	300	420	38	30	625	945
	4~8	406	349	168	65	140	18	58	250	24	80	490	500	275	500	38	30	625	945
280S	2	457	368	190	65	140	18	58	280	24	85	545	560	300	438	45	35	685	1010
	4~8	457	368	190	75	140	20	67.5	280	24	85	545	560	300	438	45	35	685	1010
280M	2	457	419	190	65	140	18	58	280	24	85	545	560	300	489	45	35	685	1060
	4~8	457	419	190	75	140	20	67.5	280	24	85	545	560	300	489	45	35	685	1060
315S	2	508	406	216	65	140	18	58	315	28	120	630	630	360	570	83	45	845	1189
	4~10	508	406	216	80	170	22	71	315	28	120	630	630	360	570	83	45	845	1220
315M	2	508	457	216	65	140	18	58	315	28	120	630	630	360	680	83	45	845	1300
	4~10	508	457	216	80	170	22	71	315	28	120	630	630	360	680	83	45	845	1330
315L	2	508	508	216	65	140	18	58	315	28	120	630	630	360	680	83	45	845	1300
	4~10	508	508	216	80	170	22	71	315	28	120	630	630	360	680	83	45	845	1330
355S	2	610	560	254	75	140	20	67.5	355	28	150	760	720	360	620	74	50	970	1510
	4~10	610	560	254	95	170	25	86	355	28	150	760	720	360	620	74	50	970	1510
355M	2	610	560	254	75	140	20	67.5	355	28	150	760	720	360	710	74	50	970	1570
	4~10	610	560	254	95	170	25	86	355	28	150	760	720	360	710	74	50	970	1570
355L	2	610	630	254	75	140	20	67.5	355	28	150	760	720	360	775	74	50	970	1690
	4~10	610	630	254	95	170	25	86	355	28	150	760	720	360	775	74	50	970	1690

06. Terminal box



机座号	管螺纹孔数与直径 M	外形尺寸 (X×Y×Z)
	mm	mm
80~100	1-M24×1.5	100×100×60
112~132	2-M30×2	108×118×70
160~180	2-M36×2	150×160×85
200~225	2-M48×2	188×208×105
250~280	2-M64×2	216×246×120
315	2-M64×2	280×320×170
355	2-M64×2	280×320×170

