YX3系列高效率三相异步电动机

YX3 Series High Efficiency Three-phase Induction Motor



YX3系列节能型三相异步电动机效率高，起动转矩大，噪音低，结构更加合理，冷却散热条件成熟。本系列电动机为一般用途的三相异步电动机，可用于驱动各种通用机械设备，如压缩机、风机、水泵等，以及化工、医药、矿山及其它特殊环境下使用的设备。

防护等级/Protection Class：IP55, 绝缘等级/Insulation Grade：F, 冷却方式/Cooling Way：IC411, 工作制/Duty Type：S1

技术性能参数 Technical performance data

电机型号 Motor Type	功率 Power		转速 Speed	电流 In A			效率 Efficiency η%		功率因数 Power Factor	堵转转矩 额定转矩	最大转矩 额定转矩	堵转电流 额定电流	噪声 Nose	重量 Weight
	kW	Hp	r/min	380V	400V	415V	100%	75%	cos ϕ	TLR/Trated	Tmax/Trated	ILR/Irated	LwdB(A)	kg
Synchronous Speed 3000RPM2-POLE 50Hz														
YX3-80M1-2	0.75	1	2885	108	1.7	1.6	77.5	80.33	0.83	2.3	2.3	6.8	62	16
YX3-80M2-2	1.1	1.5	2885	2.4	2.3	2.2	82.8	83.27	0.83	2.3	2.3	7.3	62	17.5
YX3-90S-2	1.5	2	2885	3.2	3.0	2.9	84.1	84.99	0.84	2.3	2.3	7.6	67	23.5
YX3-90L-2	2.2	3	2890	4.6	4.4	4.2	85.6	86.35	0.85	2.3	2.3	7.8	67	28.5
YX3-100L-2	3	4	2895	6.0	5.7	5.5	86.7	87.16	0.87	2.3	2.3	8.1	74	38
YX3-112M-2	4	5.5	2895	7.9	7.5	7.2	87.6	88.80	0.88	2.3	2.3	8.3	77	49
YX3-132S1-2	5.5	7.5	2920	10.7	10.2	9.8	88.6	89.87	0.88	2.2	2.3	8.0	79	63
YX3-132S2-2	7.5	10	2915	14.3	13.6	13.1	89.5	90.29	0.89	2.2	2.3	7.8	79	70
YX3-160M1-2	11	15	2945	20.7	19.7	19.0	90.5	90.66	0.89	2.2	2.3	7.9	81	121
YX3-160M2-2	15	20	2945	28.0	26.7	25.7	91.3	91.64	0.89	2.2	2.3	8.0	81	132
YX3-160L-2	18.5	25	2940	34.4	32.7	31.5	91.8	92.52	0.89	2.2	2.3	8.1	81	138
YX3-180M-2	22	30	2960	40.7	38.7	37.3	92.2	92.40	0.89	2.2	2.3	8.2	83	191
YX3-200L1-2	30	40	2965	55.1	52.3	50.5	92.9	92.95	0.89	2.2	2.3	7.5	84	240
YX3-200L2-2	37	50	2965	67.7	64.3	62.0	93.3	93.14	0.89	2.2	2.3	7.5	84	257
YX3-225M-2	45	60	2965	82.0	77.9	75.1	93.7	93.53	0.89	2.2	2.3	7.6	86	310
YX3-250M-2	55	75	2975	99.9	94.8	91.5	94.0	94.05	0.89	2.2	2.3	7.6	89	386
YX3-280S-2	75	100	2980	153.3	128.6	123.9	94.6	94.62	0.89	2.0	2.3	6.9	91	505
YX3-280M-2	90	125	2980	151.7	153.6	148.1	95.0	94.75	0.89	2.0	2.3	7.0	91	555
YX3-315S-2	110	150	2980	195.5	185.5	178.8	95.0	94.14	0.90	2.0	2.2	7.1	92	975
YX3-315M-2	132	180	2980	233.6	221.9	213.9	95.4	94.64	0.90	2.0	2.2	7.1	92	1035
YX3-315L1-2	160	215	2980	280.0	265.7	256.1	95.4	95.11	0.91	2.0	2.2	7.1	92	1130
YX3-315L2-2	200	270	2980	350.0	332.5	320	95.4	95.48	0.91	2.0	2.2	7.1	92	1220

技术性能参数 Technical performance data

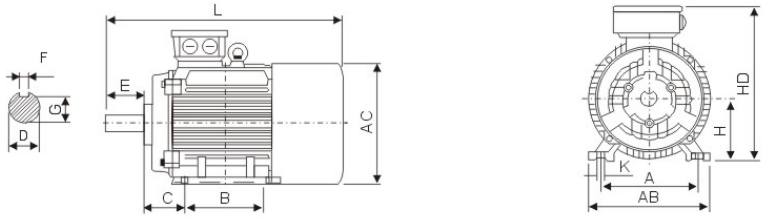
电机型号 Motor Type	功率 Power		转速 Speed	电流 In A			效率 Efficiency η%		功率因数 Power Factor	堵转转矩 额定转矩	最大转矩 额定转矩	堵转电流 额定电流	噪声 Nose	重量 Weight
	kW	Hp	r/min	380V	400V	415V	100%	75%	cos ϕ	TLR/Trated	Tmax/Trated	ILR/Irated	LwdB(A)	kg
Synchronous Speed 1500RPM 4-POLE 50Hz														
YX3-80M1-4	0.55	0.75	1390	1.4	1.4	1.3	80.7	81.43	0.75	2.3	2.3	6.3	56	17
YX3-80M2-4	0.75	1	1390	1.8	1.8	1.7	82.3	82.56	0.75	2.3	2.3	6.5	56	18.5
YX3-90S-4	1.1	1.5	1400	2.7	2.7	2.4	83.8	85.31	0.75	2.3	2.3	6.5	59	24
YX3-90L-4	1.5	2	1400	3.6	3.6	3.3	85.0	86.48	0.75	2.3	2.3	6.9	59	29.5
YX3-100L1-4	2.2	3	1430	4.8	4.8	4.4	86.4	86.59	0.81	2.3	2.3	7.5	64	39.5
YX3-100L2-4	3	4	1430	6.4	6.4	5.8	87.4	87.43	0.82	2.3	2.3	7.6	64	43.5
YX3-112M-4	4	5.5	1440	8.4	8.4	7.7	88.3	88.0	0.82	2.3	2.3	7.7	65	52
YX3-132S-4	5.5	7.5	1440	11.4	11.4	10.5	89.2	90.10	0.82	2.0	2.3	7.5	71	66
YX3-132M-4	7.5	10	1440	15.2	15.2	13.9	90.1	90.98	0.83	2.0	2.3	7.4	71	78
YX3-160M-4	11	15	1460	21.6	21.6	19.8	91.0	91.33	0.85	2.2	2.3	7.5	73	122
YX3-160L-4	15	20	1460	28.9	28.9	26.4	91.8	91.98	0.86	2.2	2.3	7.5	73	139
YX3-180M-4	18.5	25	1470	35.4	35.4	32.5	92.2	92.64	0.86	2.2	2.3	7.7	76	188
YX3-180L-4	22	30	1470	42.0	42.0	38.4	92.6	92.98	0.86	2.2	2.3	7.8	76	193
YX3-200L-4	30	40	1470	56.9	56.9	52.1	93.2	93.42	0.86	2.2	2.3	7.2	76	256
YX3-225S-4	37	50	1475	69.8	69.8	63.9	93.6	93.62	0.86	2.2	2.3	7.3	78	308
YX3-225M-4	45	60	1475	84.7	84.7	77.5	93.9	94.22	0.86	2.2	2.3	7.4	78	337
YX3-250M-4	55	75	1480	103.1	103.1	94.4	94.2	94.62	0.86	2.2	2.3	7.4	79	410
YX3-280S-4	75	100	1480	136.7	136.7	125.2	94.7	94.67	0.88	2.2	2.3	6.7	80	581
YX3-280M-4	90	125	1480	163.6	163.6	149.8	95.0	94.97	0.88	2.2	2.3	6.9	80	643
YX3-315S-4	110	150	1480	199.1	199.1	182.3	95.4	95.30	0.88	2.2	2.2	6.9	88	980
YX3-315M-4	132	180	1480	238.9	238.9	218.7	95.4	95.36	0.88	2.2	2.2	6.9	88	1055
YX3-315L1-4	160	215	1480	286.3	286.3	261.3	95.7	95.46	0.89	2.2	2.2	6.9	88	1155
YX3-315L2-4	200	270	1480	357.9	357.9	326.7	95.7	95.67	0.89	2.2	2.2	6.9	88	1230
Synchronous Speed 1000RPM 6-POLE 50Hz														
YX3-90S-6	0.75	1	910	2.0	1.93	1.86	77.7	78.76	0.72	2.1	2.1	5.8	57	23
YX3-90L-6	1.1	1.5	910	2.9	2.7	2.6	79.9	81.12	0.73	2.1	2.1	5.9	57	28.5
YX3-100L-6	1.5	2	940	3.8	3.6	3.46	81.5	81.56	0.74	2.1	2.1	6.0	61	37.5
YX3-112M-6	2.2	3	940	5.4	5.1	4.96	83.4	85.12	0.74	2.1	2.1	6.0	65	48
YX3-132S-6	3	4	960	7.3	6.9	6.6	84.9	86.49	0.74	2.0	2.1	6.2	69	65
YX3-132M1-6	4	5.5	960	9.5	9.1	8.7	86.1	87.58	0.74	2.0	2.1	6.8	69	73
YX3-132M2-6	5.5	7.5	960	12.7	12.1	11.7	87.4	88.90	0.75	2.0	2.1	7.1	69	82
YX3-160M-6	7.5	10	970	16.4	15.6	15	89.0	89.51	0.78	2.1	2.1	6.7	73	113
YX3-160L-6	11	15	970	23.5	22.3	21.5	90.0	90.11	0.79	2.1	2.1	6.9	73	134
YX3-180L-6	15	20	970	30.9	29.4	28.3	91.0	92.12	0.81	2.0	2.1	7.2	73	178
YX3-200L1-6	18.5	25	980	37.9	36	34.7	91.5	92.02	0.81	2.1	2.1	7.2	73	226
YX3-200L2-6	22	30	980	44.3	42.1	40.6	92.0	92.48	0.82	2.1	2.1	7.3	73	243
YX3-225M-6	30	40	980	60.8	57.8	55.7	92.5	93.37	0.81	2.0	2.1	7.1	74	294

技术性能参数 Technical performance data

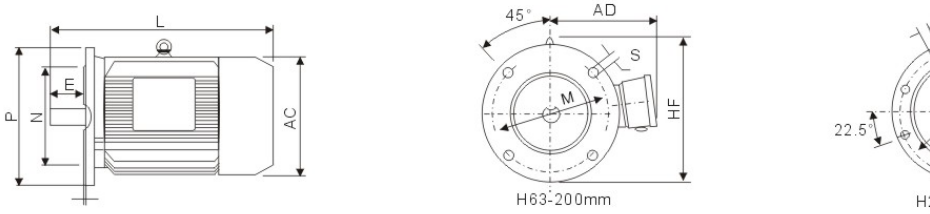
电机型号 Motor Type	功率 Power		转速 Speed	电流 In A			效率 Efficiency η%		功率因数 Power Factor	堵转转矩 额定转矩	最大转矩 额定转矩	堵转电流 额定电流	噪声 Nose	重量 Weight
	kW	Hp	r/min	380V	400V	415V	100%	75%	cos ϕ	TLR/Trated	Tmax/Trated	ILR/Irated	LwdB(A)	kg
Synchronous Speed 1000RPM 6-POLE 50Hz														
YX3-250M-6	37	50	980	72.0	68.4	65.9	93.0	93.85	0.84	2.1	2.1	7.1	76	369
YX3-280S-6	45	60	980	85.0	80.8	77.9	93.5	94.03	0.86	2.1	2.0	7.2	78	513
YX3-280M-6	55	75	980	103.6	98.3	94.7	93.8	94.26	0.86	2.1	2.0	7.2	78	661
YX3-315S-6	75	100	980	142.3	134.9	130.0	94.2	94.49	0.85	2.0	2.0	6.7	83	910
YX3-315M-6	90	125	980	172.3	163.1	157.2	94.5	94.75	0.84	2.0	2.0	6.7	83	970
YX3-315L1-6	110	150	980	207.0	196.4	189.3	95.0	95.11	0.85	2.0	2.0	6.7	83	1155
YX3-315L2-6	132	180	980	245.5	232.2	233.8	95.0	95.34	0.86	2.0	2.0	6.7	83	1260
Synchronous Speed 750RPM 8-POLE 50Hz														
YX3-90L-8	0.55	0.75	700	1.86	1.77	1.70	73.5	74.4	0.61	1.8	2.0	2.0	54	31
YX3-100L1-8	0.75	1	700	2.30	2.20	2.1	73.5	75.8	0.67	1.8	2.0	2.0	51	33
YX3-100L2-8	1.1	1.5	700	3.17	3.02	2.9	76.3	79.1	0.69	1.8	2.0	2.0	51	38
YX3-112M-8	1.5	2	705	4.21	4.00	3.86	78.4	80.4	0.69	1.8	2.0	2.0	52	52
YX3-132S-8	2.2	3	710	5.8	5.5	5.3	80.9	82.9	0.71	1.8	2.0	2.0	69	58
YX3-132M-8	3	4	710	7.5	7.2	6.9	82.7	84.7	0.73	1.8	2.0	2.0	69	68
YX3-160M1-8	4	5.5	715	9.9	9.4	9.0	84.2	85.7	0.73	1.9	2.0	2.0	69	104
YX3-160M2-8	5.5	7.5	715	13.2	12.5	12.0	85.8	87.4	0.74	2.0	2.0	2.0	69	114
YX3-160L-8	7.5	10	720	17.4	16.5	15.0	87.2	88.6	0.75	2.0	2.0	2.0	69	132
YX3-180L-8	11	15	730	24.8	23.5	22.7	88.8	89.0	0.76	2.0	2.0	2.0	73	176
YX3-200L-8	15	20	730	33.3	31.6	30.5	90.0	90.3	0.76	2.0	2.0	2.0	73	232
YX3-225S-8	18.5	25	735	40.8	38.7	37.3	90.7	90.7	0.76	1.9	2.0	2.0	73	268
YX3-225M-8	22	30	735	46.4	44.1	42.5	91.2	91.6	0.79	1.9	2.0	2.0	73	288
YX3-250M-8	30	40	735	62.6	59.5	57.4	92.1	91.8	0.79	1.9	2.0	2.0	75	372
YX3-280S-8	37	50	740	75.8	72	69.4	92.7	92.6	0.80	1.9	2.0	2.0	80	567
YX3-280M-8	45	60	740	91.7	87.1	84	93.2	93.6	0.80	1.9	2.0	2.0	80	651
YX3-315S-8	55	75	740	110.1	104.6	100.8	93.7	93.6	0.81	1.8	2.0	2.0	74	1000
YX3-315M-8	75	100	740	149	141.6	136.5	94.4	94.2	0.81	1.8	2.0	2.0	74	1100
YX3-315L1-8	90	125	740	176.1	167.3	161.2	94.7	94.6	0.82	1.8	2.0	2.0	74	1160
YX3-315L2-8	110	150	740	214.3	203.6	196.2	95.1	94.8	0.82	1.8	2.0	2.0	74	1230

外形及安装尺寸/Dimension Drawing

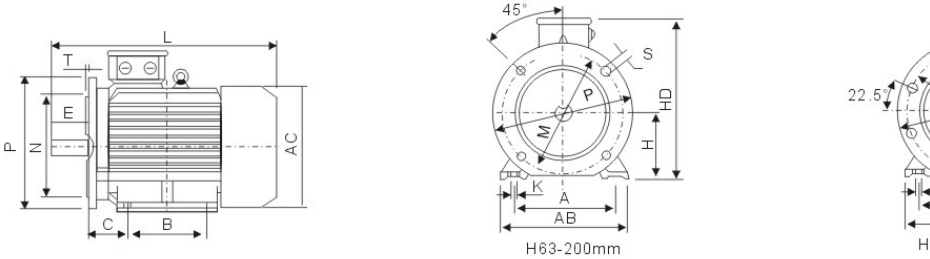
B3



B5



B35



机座号 Frame size	极数 Pole	安装尺寸Mounting Dimension (mm)																							外型尺寸 External dimensions(mm)					
		凸缘号 Flange No	凸缘孔 Flange Bolt	A	A/2	B	C	D	E	F	G	H	K	M	N	P	R	S	T	AB	AC	AD	HD	HF	L	凸缘号 Flange No	M	N	P	S	T
80M	2,4,6	FF165	4	125	62.5	100	50	19	40	6	15.5	80	10	165	130	200	0	12	3.5	165	175	145	220	245	305	FT100	100	80	120	M6	3
90S	2,4,6	FF165	4	140	70	100	56	24	50	8	20	90	10	165	130	200	0	12	3.5	180	195	165	260	265	360	FT115	115	95	140	M8	3
90L	2,4,6	FF165	4	140	70	125	56	24	50	8	24	90	10	165	130	200	0	12	3.5	180	195	165	260	315	390	FT115	115	95	140	M8	3
100L	2,4,6	FF215	4	160	80	140	63	28	60	8	24	100	12	215	180	250	0	14.5	4	205	215	180	270	315	435	FT130	130	110	160	M8	3.5
112M	2,4,6	FF215	4	190	95	140	70	28	60	8	33	112	12	215	180	250	0	14.5	4	230	240	190	300	385	470	FT130	130	110	160	M8	3.5
132S	2,4,6	FF265	4	216	108	140	89	38	80	10	33	132	12	265	230	300	0	14.5	4	270	275	210	345	385	510						
132M	2,4,6	FF265	4	216	108	178	89	38	80	10	33	132	12	265	230	300	0	14.5	4	270	275	210	345	430	560						
160M	2,4,6	FF300	4	254	127	210	108	42	110	12	37	160	14.5	300	250	350	0	18.5	5	320	330	255	420	430	670						
160L	2,4,6	FF300	4	254	127	254	108	42	110	12	37	160	14.5	300	250	350	0	18.5	5	320	330	255	420	480	700						
180M	2,4,6	FF300	4	279	139.5	241	121	48	110	14	42.5	180	14.5	300	250	350	0	18.5	5	355	380	280	455	535	740						
180L	2,4,6	FF300	4	279	139.5	279	121	48	110	14	42.5	180	14.5	300	250	350	0	18.5	5	355	380	280	455	535	790						
200L	2,4,6	FF350	4	318	159	305	133	55	110	16	49	200	18.5	350	300	400	0	18.5	5	395	420	305	505	535	790						
225S	2,4,6	FF400	8	356	178	286	149	60	140	18	53	225	18.5	400	350	450	0	18.5	5	435	470	335	560	595	830						
225M	2	FF400	8	356	178	311	149	55	110	16	49	225	18.5	400	350	450	0	18.5	5	435	470	335	560	595	825						
225M	4,6	FF400	8	356	178	311	149	60	140	18	53	225	18.5	400	350	450	0	18.5	5	435	470	335	560	650	855						
250M	2	FF500	8	406	203	349	168	60	140	18	53	250	24	500	450	550	0	18.5	5	490	510	370	615	650	915						
250M	4,6	FF500	8	406	203	349	168	65	140	18	58	250	24	500	450	550	0	18.5	5	490	510	370	615	650	915						
280S	2	FF500	8	457	288.5	368	190	65	140	18	58	280	24	500	450	550	0	18.5	5	550	580	410	680	650	985						
280S	4,6	FF500	8	457	288.5	368	190	75	140	20	67.5	280	24	500	450	550	0	18.5	5	550	580	410	680		985						
280M	2	FF500	8	457	288.5	419	190	65	140	18	58	280	24	500	450	550	0	18.5	5	550	580	410	680		1035						
280M	4,6	FF500	8	457	288.5	419	190	75	140	20	67.5	280	24	500	450	550	0	18.5	5	550	580	410	680		1035						
315S	2	FF600	8	508	254	406	216	65	140	18	58	315	28	600	550	660	0	24	6	635	645	530	845		1180						
315S	4,6	FF600	8	508	254	406	216	80	170	22	71	315	28	600	550	660	0	24	6	635	645	530	845		1290						
315M	2	FF600	8	508	254	457	216	65	140	18	58	315	28	600	550	660	0	24	6	635	645	530	845		1210						
315M	4,6	FF600	8	508	254	457	216	80	170	22	71	315	28	600	550	660	0	24	6	635	645	530	845		1320						
315L	2	FF600	8	508	254	508	216	65	170	18	58	315	28	600	550	660	0	24	6	635	645	530	845		1210						
315L	4,6	FF600	8	508	254	508	216	80	170	22	71	315	28	600	550	660	0	24	6	635	645	530	845		1320						