



# YE3

## YE3 系列超高效率三相异步电动机

PREMIUM EFFICIENCY THREE-PHASE ASYNCHRONOUS MOTOR

YE3系列超高效率三相异步电动机符合GB 18613-2020《中小型三相异步电动机能效限定值及能效等级》中规定二级效率标准。同时，符合IEC60034-30-2008标准的IE3能效等级。

其提高效率设计，符合国家对生产制造行业提出节能降耗的要求。

YE3系列电机的安装尺寸符合IEC60034标准。具有结构合理，外形美观，效率高，噪音低，防护等级、绝缘等级高等优点，可广泛应用于风机、水泵、机床、压缩机运输机械等驱动各种通用机械设备，也可在石油、化工、钢铁、矿山等其它环境比较恶劣的场所使用。

The YE3 series premium efficiency three-phase asynchronous motor is inline with IE3 efficiency standard in the provisions of IEC60034-30-2008. And the improvement of the efficiency in its design is in line with the state's requirements on the energy saving and consumption reducing of the manufacturing sector.

YE3 series premium efficiency three-phase asynchronous motor with the mounting dimension in accordance with standard IEC60034, It has good features like optimum structure, attractive appearance, low noise, high efficiency, high protection class as well as high insulation class. YE3 series premium efficiency three-phase asynchronous motor can be widely used in various kinds of general use machineries like fans, pumps, machine tools, compressors, transportation and so on, and can also be used in the hazardous areas with oil and chemical, steel plants, mining industry.

### 详细说明 Details

#### 现场条件 Site condition

YE3系列超高效率三相异步电动机可适用于大多数的场合及环境。电动机标准工作条件为-20℃到+40℃，海拔1000米。YE3 series ultra-high efficiency three-phase induction motors are suitable for most situations and environments. The standard operating conditions of the motor range from -20 °C to +40 °C with an altitude of 1000 meters.

#### 温升和绝缘 Temperature rise and insulation

电动机按F级绝缘设计(155℃)，按B级绝缘考核(80K)，电动机的使用寿命和可靠性得到保证。The motor is designed according to Class F insulation (155 °C) and tested according to Class B insulation (80K). The service life and reliability of the motor are guaranteed.

#### 冷却和通风 Cooling and ventilation

标准冷却方式为全封闭自扇冷(TEFC)。标准电机装有辅助式塑料风扇。符合IEC 60034-6中IC411的规定。The Standard cooling mode is totally enclosed self-fan cooling (TEFC). Standard Motors are equipped with an auxiliary flow plastic fan. Comply with IC411 in IEC 60034-6.

#### 防护等级 Protection level

电动机的防护等级为IP55，可用于含尘或潮湿环境。也可根据客户要求提供更高防护等级的电动机。The protection grade of the motor is IP55 and can be used in dusty or wet environment. Higher Protection Grade Motors are also available upon request.

#### 电机保护 Motor protection

可根据要求安装PTC、PT100等绕组和轴承测温及保护装置。PTC, PT100 and other windings and bearings can be installed according to the requirements of temperature and protection devices.

#### 电压、频率 Voltage, frequency

标准电机为380V/50HZ，可设计200-660V范围内任意电压的50Hz的电动机。在供电电压偏离额定电压±5%的情况下，仍能良好运行。The Standard Motor is 380V/50HZ. Can Be designed in the range of 200-660V arbitrary voltage 50Hz motor. When the supply voltage deviates from the rated voltage by ± 5%, it can still run well.

#### 振动 Vibration

YE3系列超高效率三相异步电动机在空载时振动速度等级符合A级。特殊要求时，可提供B级电动机。YE3 series ultra-high efficiency three-phase induction motors in no-load Vibration Speed Class A. Class B motors are available upon special request.

#### 接线盒位置 Junction box location

接线盒在机座上方或右侧为标准YE3系列电机。The junction box is a standard YE3 series motor above or to the right of the frame.

#### 质量保证 Quality Assurance

从产品设计到产品出厂，遵循ISO9001质量认证体系，严格遵守质量程序。From the product design to the product factory, in accordance with the ISO9001 quality certification system, strict compliance with quality procedures.

**性能数据** Performance Data

型号 motor type	功率 KW	额定 电流 A	转速 r/min	效率 Eff.%	功率 因数 P.F	额定 转矩 N.m	堵转转矩 额定转矩 $\frac{T_{st}}{T_N}$	堵转电流 额定电流 $\frac{I_{st}}{I_N}$	最大转矩 额定转矩 $\frac{T_{max}}{T_N}$	重量 Kg
同步转速 3000 r/min										
YE3-63M1-2	0.18	0.53	2720	65.9	0.80	0.63	2.2	5.5	2.2	--
YE3-63M2-2	0.25	0.70	2720	69.7	0.81	0.88	2.2	5.5	2.2	--
YE3-71M1-2	0.37	1.0	2740	73.8	0.81	1.29	2.2	6.1	2.2	--
YE3-71M2-2	0.55	1.4	2740	77.8	0.82	1.92	2.2	6.1	2.2	--
YE3-80M1-2	0.75	1.7	2870	80.7	0.82	2.50	2.2	7.0	2.3	15
YE3-80M2-2	1.1	2.4	2875	82.7	0.83	3.65	2.2	7.3	2.3	16.5
YE3-90S-2	1.5	3.2	2880	84.2	0.84	4.97	2.2	7.6	2.3	20
YE3-90L-2	2.2	4.6	2880	85.9	0.85	7.30	2.2	7.6	2.3	24
YE3-100L-2	3	6.0	2880	87.1	0.87	9.95	2.2	7.8	2.3	31
YE3-112M-2	4	7.8	2915	88.1	0.88	13.1	2.2	8.3	2.3	38
YE3-132S1-2	5.5	10.6	2935	89.2	0.88	17.9	2.0	8.3	2.3	58
YE3-132S2-2	7.5	14.4	2930	90.1	0.88	24.4	2.0	7.9	2.3	62
YE3-160M1-2	11	20.6	2950	91.2	0.89	35.6	2.0	8.1	2.3	103
YE3-160M2-2	15	27.9	2945	91.9	0.89	48.6	2.0	8.1	2.3	112
YE3-160L-2	18.5	34.2	2945	92.4	0.89	60.0	2.0	8.2	2.3	135
YE3-180M-2	22	40.5	2950	92.7	0.89	71.2	2.0	8.2	2.3	165
YE3-200L1-2	30	54.9	2965	93.3	0.89	96.6	2.0	7.6	2.3	215
YE3-200L2-2	37	67.4	2965	93.7	0.89	119	2.0	7.6	2.3	232
YE3-225M-2	45	80.8	2965	94.0	0.90	145	2.0	7.7	2.3	285
YE3-250M-2	55	98.5	2975	94.3	0.90	177	2.0	7.7	2.3	375
YE3-280S-2	75	134	2975	94.7	0.90	241	1.8	7.1	2.3	500
YE3-280M-2	90	160	2975	95.0	0.90	289	1.8	7.1	2.3	550
YE3-315S-2	110	195	2985	95.2	0.90	352	1.8	7.1	2.3	860
YE3-315M-2	132	234	2985	95.4	0.90	422	1.8	7.1	2.3	960
YE3-315L1-2	160	279	2985	95.6	0.91	512	1.8	7.2	2.3	1020
YE3-315L-2	185	323	2985	95.7	0.91	592	1.8	7.2	2.3	--
YE3-315L2-2	200	349	2985	95.8	0.91	640	1.8	7.2	2.2	1080
YE3-315L3-2	220	383	2985	95.8	0.91	704	1.8	7.2	2.2	--
YE3-355M1-2	220	383	2985	95.8	0.91	704	1.8	7.2	2.2	--
YE3-355M-2	250	436	2985	95.8	0.91	800	1.6	7.2	2.2	1700
YE3-355L1-2	280	488	2985	95.8	0.91	896	1.6	7.2	2.2	--
YE3-355L-2	315	549	2985	95.8	0.91	1008	1.6	7.2	2.2	1850
YE3-355L2-2	355	619	2985	95.8	0.91	1136	1.6	7.2	2.2	--
YE3-355L3-2	375	654	2985	95.8	0.91	1200	1.6	7.2	2.2	--

**技术数据** Technical data 4极-同步转速1500r/min 50Hz 4 pole- 1500 rpm synchronous speed 50Hz

型号 motor type	功率 KW	额定 电流 A	转速 r/min	效率 Eff.%	功率 因数 P.F	额定 转矩 N.m	堵转转矩 额定转矩 $\frac{T_{st}}{T_N}$	堵转电流 额定电流 $\frac{I_{st}}{I_N}$	最大转矩 额定转矩 $\frac{T_{max}}{T_N}$	重量 Kg
同步转速 1500 r/min										
YE3-63M1-4	0.12	0.45	1310	64.8	0.72	0.87	2.1	4.4	2.2	--
YE3-63M2-4	0.18	0.64	1310	69.9	0.73	1.31	2.1	4.4	2.2	--
YE3-71M1-4	0.25	0.81	1330	73.5	0.74	1.80	2.1	5.2	2.2	--
YE3-71M2-4	0.37	1.1	1330	77.3	0.75	2.66	2.1	5.2	2.2	--
YE3-80M1-4	0.55	1.4	1430	80.8	0.75	3.67	2.3	6.5	2.3	14.5
YE3-80M2-4	0.75	1.8	1430	82.5	0.75	5.01	2.3	6.6	2.3	15
YE3-90S-4	1.1	2.6	1430	84.1	0.76	7.35	2.3	6.8	2.3	19
YE3-90L-4	1.5	3.5	1430	85.3	0.77	10.0	2.3	7.0	2.3	23
YE3-100L1-4	2.2	4.8	1440	86.7	0.81	14.6	2.3	7.6	2.3	30
YE3-100L2-4	3	6.3	1440	87.7	0.82	19.9	2.3	7.6	2.3	33
YE3-112M-4	4	8.4	1455	88.6	0.82	26.3	2.2	7.8	2.3	43
YE3-132S-4	5.5	11.2	1465	89.6	0.83	35.9	2.0	7.9	2.3	60
YE3-132M-4	7.5	15.0	1465	90.4	0.84	48.9	2.0	7.5	2.3	69
YE3-160M-4	11	21.5	1470	91.4	0.85	71.5	2.0	7.7	2.3	107
YE3-160L-4	15	28.8	1470	92.1	0.86	97.4	2.0	7.8	2.3	130
YE3-180M-4	18.5	35.3	1470	92.6	0.86	120	2.0	7.8	2.3	162
YE3-180L-4	22	41.8	1470	93.0	0.86	143	2.0	7.8	2.3	175
YE3-200L-4	30	56.6	1475	93.6	0.86	194	2.0	7.3	2.3	227
YE3-225S-4	37	69.6	1480	93.9	0.86	239	2.0	7.4	2.3	282
YE3-225M-4	45	84.4	1480	94.2	0.86	290	2.0	7.4	2.3	315
YE3-250M-4	55	103	1485	94.6	0.86	354	2.0	7.4	2.3	390
YE3-280S-4	75	136	1490	95.0	0.88	481	2.0	6.7	2.3	525
YE3-280M-4	90	163	1490	95.2	0.88	577	2.0	6.9	2.3	590
YE3-315S-4	110	197	1490	95.4	0.89	705	2.0	7.0	2.2	900
YE3-315M-4	132	236	1490	95.6	0.89	846	2.0	7.0	2.2	1000
YE3-315L1-4	160	285	1490	95.8	0.89	1026	2.0	7.1	2.2	1070
YE3-315L-4	185	329	1490	96.0	0.89	1186	2.0	7.1	2.2	--
YE3-315L2-4	200	352	1490	96.0	0.90	1282	2.0	7.1	2.2	1140
YE3-315L3-4	220	387	1490	96.0	0.90	1410	2.0	7.1	2.2	--
YE3-355M1-4	220	387	1490	96.0	0.90	1410	2.0	7.1	2.2	--
YE3-355M-4	250	440	1495	96.0	0.90	1597	2.0	7.1	2.2	1760
YE3-355L1-4	280	492	1495	96.0	0.90	1789	2.0	7.1	2.2	--
YE3-355L-4	315	554	1495	96.0	0.90	2012	2.0	7.1	2.2	1920
YE3-355L2-4	355	638	1495	96.0	0.88	2268	1.7	7.0	2.2	--
YE3-355L3-4	375	674	1495	96.0	0.88	2395	1.7	7.0	2.2	--

**性能数据** Performance Data

型号 motor type	功率 KW	额定 电流 A	转速 r/min	效率 Eff.%	功率 因数 P.F	额定 转矩 N.m	堵转转矩 额定转矩 $\frac{T_{st}}{T_N}$	堵转电流 额定电流 $\frac{I_{st}}{I_N}$	最大转矩 额定转矩 $\frac{T_{max}}{T_N}$	重量 Kg
同步转速 1000r/min										
YE3-71M1-6	0.18	0.76	850	63.9	0.66	2.02	1.9	4.0	2.0	--
YE3-71M2-6	0.25	0.97	850	68.6	0.68	2.81	1.9	4.0	2.0	--
YE3-80M1-6	0.37	1.2	910	73.5	0.70	3.88	1.9	5.5	2.0	15.5
YE3-80M2-6	0.55	1.6	925	77.2	0.71	5.68	1.9	5.8	2.1	16.5
YE3-90S-6	0.75	2.0	945	78.9	0.71	7.58	2.0	6.0	2.1	20
YE3-90L-6	1.1	2.8	950	81.0	0.73	11.1	2.0	6.0	2.1	24
YE3-100L-6	1.5	3.8	950	82.5	0.73	15.1	2.0	6.5	2.1	29
YE3-112M-6	2.2	5.4	965	84.3	0.74	21.8	2.0	6.6	2.1	37
YE3-132S-6	3	7.2	975	85.6	0.74	29.4	1.9	6.8	2.1	53
YE3-132M1-6	4	9.5	975	86.8	0.74	39.2	1.9	6.8	2.1	64
YE3-132M2-6	5.5	12.7	975	88.0	0.75	53.9	1.9	7.0	2.1	72
YE3-160M-6	7.5	16.2	980	89.1	0.79	73.1	1.9	7.0	2.1	97
YE3-160L-6	11	23.1	980	90.3	0.80	107	1.9	7.2	2.1	126
YE3-180L-6	15	30.9	980	91.2	0.81	146	1.9	7.3	2.1	166
YE3-200L1-6	18.5	37.8	985	91.7	0.81	179	1.9	7.3	2.1	205
YE3-200L2-6	22	44.8	985	92.2	0.81	213	1.9	7.4	2.1	220
YE3-225M-6	30	59.1	985	92.9	0.83	291	1.9	6.9	2.1	290
YE3-250M-6	37	71.7	985	93.3	0.84	359	1.9	7.1	2.1	370
YE3-280S-6	45	85.8	990	93.7	0.85	434	1.9	7.3	2.0	490
YE3-280M-6	55	103	990	94.1	0.86	531	1.9	7.3	2.0	540
YE3-315S-6	75	143	990	94.6	0.84	723	1.9	6.6	2.0	850
YE3-315M-6	90	170	990	94.9	0.85	868	1.9	6.7	2.0	960
YE3-315L1-6	110	207	990	95.1	0.85	1061	1.9	6.7	2.0	1060
YE3-315L2-6	132	244	990	95.4	0.86	1273	1.9	6.8	2.0	1120
YE3-315L3-6	160	296	990	95.6	0.86	1543	1.9	6.8	2.0	--
YE3-355M1-6	160	296	995	95.6	0.86	1536	1.9	6.8	2.0	1680
YE3-355M-6	185	342	995	95.8	0.86	1776	1.9	6.8	2.0	--
YE3-355M2-6	200	365	995	95.8	0.87	1920	1.9	6.8	2.0	1780
YE3-355L1-6	220	401	995	95.8	0.87	2112	1.9	6.8	2.0	--
YE3-355L-6	250	456	995	95.8	0.87	2399	1.9	6.8	2.0	1950
YE3-355L2-6	280	510	995	95.8	0.87	2687	1.9	6.8	2.0	--
YE3-355L3-6	315	581	995	95.8	0.86	3023	1.9	6.8	2.0	--