

## YJZ2 系列机床专用三相异步电动机

### YJZ2 Series Machine Tool Three Phase Induction Motors

**机座号 80~355**
**功率 0.18~375kW**
**工作制 S1**
**绝缘等级 F**
**能效等级: 中国 GB18613-2012 3 级**
**适用于: 驱动各类要求低噪声、低振动的机床。**
**Applications:** Ideal for a wide variety of driving machine tools.

**特点:** 噪声低、振动小, 外型美观, 绝缘等级为 F 级, 外壳防护等级为 IP54。

**Features:** Low noise and little vibration. The insulation class is F; the protective class is IP54.

**使用条件:** 海拔不超过 1000m。环境温度随季节变化, 但最高不超过+40℃, 最低不低于-15℃。

**Circumstance For Use:** The altitude not exceeding 1000m above sea level. The ambient temperature subject to seasonal variations but not exceeding 40℃ and not less than -15℃.

### 性能数据 Performance Data

**380V 50Hz**

型号 Type	功率 kW	额定 电流 A	转速 r/min	效率 Eff. %	功率因数 Power Factor	噪声 dB(A)	振动 mm/s	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 $\frac{T_{max}}{T_N}$
同步转速 3000 r/min										
YJZ2-80M1-2	0.75	1.8	2855	77.4	0.82	59	0.7	2.2	7.0	2.3
YJZ2-80M2-2	1.1	2.5	2870	79.6	0.83	59	0.7	2.2	7.3	2.3
YJZ2-90S-2	1.5	3.3	2865	81.3	0.84	64	0.7	2.2	7.6	2.3
YJZ2-90L-2	2.2	4.7	2870	83.2	0.85	64	0.7	2.2	7.6	2.3
YJZ2-100L-2	3	6.2	2875	84.6	0.87	71	0.7	2.2	7.8	2.3
YJZ2-112M-2	4	8.0	2910	85.8	0.88	74	0.7	2.2	8.3	2.3
YJZ2-132S1-2	5.5	10.9	2935	87.0	0.88	76	0.7	2.0	8.3	2.3
YJZ2-132S2-2	7.5	14.5	2930	88.1	0.89	76	0.7	2.0	7.9	2.3
YJZ2-160M1-2	11	21.0	2950	89.4	0.89	78	1.1	2.0	8.1	2.3
YJZ2-160M2-2	15	28.4	2945	90.3	0.89	78	1.1	2.0	8.1	2.3
YJZ2-160L-2	18.5	34.7	2945	90.9	0.89	78	1.1	2.0	8.2	2.3
YJZ2-180M-2	22	41.1	2950	91.3	0.89	80	1.1	2.0	8.2	2.3
YJZ2-200L1-2	30	55.7	2960	92.0	0.89	81	1.1	2.0	7.6	2.3
YJZ2-200L2-2	37	68.3	2960	92.5	0.89	81	1.1	2.0	7.6	2.3
YJZ2-225M-2	45	82.7	2965	92.9	0.89	83	1.1	2.0	7.7	2.3
YJZ2-250M-2	55	101	2970	93.2	0.89	86	1.8	2.0	7.1	2.3
YJZ2-280S-2	75	137	2975	93.8	0.89	89	1.8	1.8	7.1	2.3
YJZ2-280M-2	90	163	2970	94.1	0.89	89	1.8	1.8	7.1	2.3
YJZ2-315S-2	110	197	2975	94.3	0.90	90	1.8	1.8	7.1	2.3
YJZ2-315M-2	132	236	2975	94.6	0.90	90	1.8	1.8	7.1	2.3
YJZ2-315L1-2	160	282	2975	94.8	0.91	90	1.8	1.8	7.2	2.3

## 性能数据 Performance Data

380V 50Hz

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同步转速 3000 r/min										
YJZ2-315L-2	185	325	2975	94.9	0.91	90	1.8	1.8	7.2	2.3
YJZ2-315L2-2	200	352	2975	95.0	0.91	90	1.8	1.8	7.2	2.2
YJZ2-315L3-2	220	387	2975	95.0	0.91	90	1.8	1.8	7.2	2.2
YJZ2-355M1-2	220	387	2980	95.0	0.91	98	1.8	1.8	7.2	2.2
YJZ2-355M-2	250	439	2980	95.0	0.91	98	1.8	1.6	7.2	2.2
YJZ2-355L1-2	280	492	2980	95.0	0.91	98	1.8	1.6	7.2	2.2
YJZ2-355L-2	315	554	2980	95.0	0.91	98	1.8	1.6	7.2	2.2
YJZ2-355L2-2	355	624	2980	95.0	0.91	102	1.8	1.6	7.2	2.2
YJZ2-355L3-2	375	659	2980	95.0	0.91	102	1.8	1.6	7.2	2.2
同步转速 1500 r/min										
YJZ2-80M1-4	0.55	1.4	1430	79.0	0.75	53	0.7	2.3	6.0	2.3
YJZ2-80M2-4	0.75	1.9	1425	79.6	0.76	53	0.7	2.3	6.6	2.3
YJZ2-90S-4	1.1	2.7	1420	81.4	0.77	56	0.7	2.3	6.8	2.3
YJZ2-90L-4	1.5	3.5	1420	82.8	0.78	56	0.7	2.3	7.0	2.3
YJZ2-100L1-4	2.2	5.0	1430	84.3	0.80	61	0.7	2.3	7.6	2.3
YJZ2-100L2-4	3	6.6	1430	85.5	0.81	61	0.7	2.3	7.6	2.3
YJZ2-112M-4	4	8.7	1450	86.6	0.81	62	0.7	2.2	7.8	2.3
YJZ2-132S-4	5.5	11.6	1465	87.7	0.82	68	0.7	2.0	7.9	2.3
YJZ2-132M-4	7.5	15.5	1465	88.7	0.83	68	0.7	2.0	7.5	2.3
YJZ2-160M-4	11	22.4	1470	89.8	0.83	70	1.1	2.0	7.7	2.3
YJZ2-160L-4	15	29.9	1470	90.6	0.84	70	1.1	2.0	7.8	2.3
YJZ2-180M-4	18.5	36.3	1470	91.2	0.85	73	1.1	2.0	7.8	2.3
YJZ2-180L-4	22	42.9	1465	91.6	0.85	73	1.1	2.0	7.8	2.3
YJZ2-200L-4	30	58.1	1475	92.3	0.85	73	1.1	2.0	7.3	2.3
YJZ2-225S-4	37	70.5	1480	92.7	0.86	75	1.1	2.0	7.4	2.3
YJZ2-225M-4	45	85.4	1480	93.1	0.86	75	1.1	2.0	7.4	2.3
YJZ2-250M-4	55	104	1485	93.5	0.86	76	1.1	2.0	7.4	2.3
YJZ2-280S-4	75	139	1490	94.0	0.87	77	1.8	2.0	6.9	2.3
YJZ2-280M-4	90	165	1485	94.2	0.88	77	1.8	2.0	6.9	2.3
YJZ2-315S-4	110	199	1485	94.5	0.89	86	1.8	2.0	7.0	2.2
YJZ2-315M-4	132	238	1485	94.7	0.89	86	1.8	2.0	7.0	2.2
YJZ2-315L1-4	160	285	1485	94.9	0.90	86	1.8	2.0	7.1	2.2
YJZ2-315L-4	185	329	1485	95.0	0.90	86	1.8	2.0	7.1	2.2
YJZ2-315L2-4	200	355	1485	95.1	0.90	86	1.8	2.0	7.1	2.2
YJZ2-315L3-4	220	391	1485	95.1	0.90	86	1.8	2.0	7.1	2.2
YJZ2-355M1-4	220	391	1490	95.1	0.90	93	1.8	2.0	7.1	2.2
YJZ2-355M-4	250	444	1490	95.1	0.90	93	1.8	2.0	7.1	2.2
YJZ2-355L1-4	280	497	1490	95.1	0.90	93	1.8	2.0	7.1	2.2
YJZ2-355L-4	315	559	1490	95.1	0.90	93	1.8	2.0	7.1	2.2
YJZ2-355L2-4	355	645	1490	95.1	0.88	100	1.8	1.7	7.0	2.2
YJZ2-355L3-4	375	681	1490	95.1	0.88	100	1.8	1.7	7.0	2.2

## 性能数据 Performance Data

380V 50Hz

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同步转速 1000 r/min										
YJZ2-80M1-6	0.37	1.2	910	67.0	0.7	50	0.7	1.9	5.5	2.0
YJZ2-80M2-6	0.55	1.7	910	70.0	0.71	50	0.7	1.9	5.5	2.1
YJZ2-90S-6	0.75	2.1	935	75.9	0.71	54	0.7	2.0	6.0	2.1
YJZ2-90L-6	1.1	3.0	935	78.1	0.72	54	0.7	2.0	6.0	2.1
YJZ2-100L-6	1.5	4.0	945	79.8	0.72	58	0.7	2.0	6.5	2.1
YJZ2-112M-6	2.2	5.7	965	81.8	0.72	62	0.7	2.0	6.6	2.1
YJZ2-132S-6	3	7.6	975	83.3	0.72	66	0.7	1.9	6.8	2.1
YJZ2-132M1-6	4	9.7	975	84.6	0.74	66	0.7	1.9	6.8	2.1
YJZ2-132M2-6	5.5	13.0	975	86.0	0.75	66	0.7	1.9	7.0	2.1
YJZ2-160M-6	7.5	16.8	975	87.2	0.78	70	1.1	2.0	7.0	2.1
YJZ2-160L-6	11	23.9	975	88.7	0.79	70	1.1	2.0	7.2	2.1
YJZ2-180L-6	15	31.8	980	89.7	0.80	70	1.1	1.9	7.3	2.1
YJZ2-200L1-6	18.5	38.9	980	90.4	0.80	70	1.1	1.9	7.3	2.1
YJZ2-200L2-6	22	45.4	980	90.9	0.81	70	1.1	1.9	7.4	2.1
YJZ2-225M-6	30	60.6	985	91.7	0.82	71	1.1	1.9	6.9	2.1
YJZ2-250M-6	37	73.5	985	92.2	0.83	73	1.1	1.9	7.1	2.1
YJZ2-280S-6	45	86.8	990	92.7	0.85	75	1.8	1.9	7.3	2.0
YJZ2-280M-6	55	104	990	93.1	0.86	75	1.8	1.9	7.3	2.0
YJZ2-315S-6	75	145	990	93.7	0.84	80	1.8	1.9	6.6	2.0
YJZ2-315M-6	90	171	990	94.0	0.85	80	1.8	1.9	6.7	2.0
YJZ2-315L1-6	110	209	990	94.3	0.85	80	1.8	1.9	6.7	2.0
YJZ2-315L2-6	132	247	990	94.6	0.86	80	1.8	1.9	6.8	2.0
YJZ2-315L3-6	160	298	990	94.8	0.86	80	1.8	1.9	6.8	2.0
YJZ2-355M1-6	160	298	990	94.8	0.86	82	1.8	1.9	6.8	2.0
YJZ2-355M-6	185	344	990	94.9	0.86	82	1.8	1.9	6.8	2.0
YJZ2-355M2-6	200	372	990	95.0	0.86	82	1.8	1.9	6.8	2.0
YJZ2-355L1-6	220	409	990	95.0	0.86	82	1.8	1.9	6.8	2.0
YJZ2-355L-6	250	465	990	95.0	0.86	82	1.8	1.9	6.8	2.0
YJZ2-355L2-6	280	521	990	95.0	0.86	88	1.8	1.9	6.8	2.0
YJZ2-355L3-6	315	586	995	95.0	0.86	88	1.8	1.9	6.8	2.0
同步转速 750 r/min										
YJZ2-80M1-8	0.18	0.8	700	52.8	0.61	50	0.7	1.8	3.3	1.9
YJZ2-80M2-8	0.25	1.1	700	57	0.61	50	0.7	1.8	3.3	1.9
YJZ2-90S-8	0.37	1.4	695	64	0.62	54	0.7	1.8	4.0	1.9
YJZ2-90L-8	0.55	2.0	695	67.5	0.63	54	0.7	1.8	4.0	1.9
YJZ2-100L1-8	0.75	2.3	705	71.5	0.68	58	0.7	1.8	4.0	2.0
YJZ2-100L2-8	1.1	3.3	705	74.5	0.69	58	0.7	1.8	4.0	2.0
YJZ2-112M-8	1.5	4.4	715	75.4	0.69	62	0.7	1.8	4.0	2.0
YJZ2-132S-8	2.2	6.0	730	78.2	0.71	64	0.7	1.8	5.5	2.2
YJZ2-132M-8	3	7.7	730	80.6	0.73	64	0.7	1.8	5.5	2.2
YJZ2-160M1-8	4	10.1	725	82.7	0.73	69	1.1	1.9	6.0	2.2

## 性能数据 Performance Data

380V 50Hz

型号 Type	功率 kW	额定 电流 A	转速 r/min	效率 Eff. %	功率因数 Power Factor	噪声 dB(A)	振动 mm/s	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 $\frac{T_{max}}{T_N}$
同步转速 750 r/min										
YJZ2-160M2-8	5.5	13.4	725	84.3	0.74	69	1.1	1.9	6.0	2.2
YJZ2-160L-8	7.5	17.7	730	85.8	0.75	69	1.1	1.9	6.0	2.2
YJZ2-180L-8	11	25.0	725	87.8	0.76	69	1.1	1.9	6.0	2.2
YJZ2-200L-8	15	33.7	730	89.0	0.76	69	1.1	2.0	6.5	2.2
YJZ2-225S-8	18.5	40.0	735	90.2	0.78	70	1.1	2.0	6.5	2.2
YJZ2-225M-8	22	47.4	735	90.5	0.78	70	1.1	2.0	6.5	2.2
YJZ2-250M-8	30	63.4	735	91	0.79	71	1.1	1.9	6.5	2.0
YJZ2-280S-8	37	77.8	740	91.5	0.79	72	1.8	1.8	6.0	2.0
YJZ2-280M-8	45	93.9	740	92.2	0.79	72	1.8	1.8	6.0	2.0
YJZ2-315S-8	55	111	740	93.1	0.81	80	1.8	1.8	6.5	2.0
YJZ2-315M-8	75	151	740	93.2	0.81	80	1.8	1.8	6.5	2.0
YJZ2-315L1-8	90	181	740	93.2	0.81	80	1.8	1.8	6.5	2.0
YJZ2-315L2-8	110	218	740	93.5	0.82	80	1.8	1.8	6.5	2.0
YJZ2-355M1-8	132	261	745	93.7	0.82	82	1.8	1.8	6.5	2.0
YJZ2-355M2-8	160	314	745	94.3	0.82	82	1.8	1.8	6.5	2.0
YJZ2-355L1-8	185	364	745	94.3	0.82	82	1.8	1.8	6.5	2.0
YJZ2-355L-8	200	392	745	94.5	0.82	82	1.8	1.8	6.5	2.0
YJZ2-355L2-8	220	431	745	94.5	0.82	88	1.8	1.8	6.5	2.0
YJZ2-355L3-8	250	484	745	94.5	0.83	88	1.8	1.8	6.5	2.0
同步转速 600 r/min										
YJZ2-315S-10	45	100	590	91.5	0.75	80	1.8	1.5	6.0	2.0
YJZ2-315M-10	55	121	590	92	0.75	80	1.8	1.5	6.0	2.0
YJZ2-315L1-10	75	162	590	92.5	0.76	80	1.8	1.5	6.0	2.0
YJZ2-315L2-10	90	191	590	93.0	0.77	80	1.8	1.5	6.0	2.0
YJZ2-355M1-10	110	230	595	93.2	0.78	81	1.8	1.3	5.5	2.0
YJZ2-355M2-10	132	275	595	93.6	0.78	81	1.8	1.3	5.5	2.0
YJZ2-355L1-10	160	333	595	93.6	0.78	81	1.8	1.3	5.5	2.0
YJZ2-355L-10	185	385	595	93.6	0.78	81	1.8	1.3	5.5	2.0
YJZ2-355L2-10	200	416	595	93.6	0.78	87	1.8	1.3	5.5	2.0
YJZ2-355L3-10	220	458	595	93.6	0.78	87	1.8	1.3	5.5	2.0

常用的安装结构型式，以及适用的机座号见下表

Conventional mounting type and suitable frame size are given in following table (with “√”)

机座号 Frame	基本安装结构 Basic Type			派生的安装形式 Derived Type													
	B3	B5	B35	V1	V3	V5	V6	B6	B7	B8	V15	V17	V35	V37	B14	B34	V18
80~112	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
132~160	√	√	√	√	√	√	√	√	√	√	√	√	√	√	-	-	-
180~280	√	√	√	√	-	-	-	-	-	-	-	-	-	-	-	-	-
315~355	√	-	√	√	-	-	-	-	-	-	-	-	-	-	-	-	-

注：“√”表示可以制造生产的结构型式，安装尺寸与 YX3 系列电机基本一致。

The mounting dimensions are the same as those of YX3 series induction motors.