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订货须知 Instructions for ordering

订货时请注明样本中所标明的电动机型号、功率、同步转速、电压、接法、频率、安装型式等。如有特殊要求，请在合同中详细说明。样本所提供的数据仅供用户参考，具体数据如有变动，恕不另行通知。

When ordering, please specify the motor type, power, speed, voltage, connection method, frequency, installation type and so on as indicated in the sample. If there are special requirements, please specify them in the contract. The data provided by the sample is for users' reference only. The specific data are subject to change without notice.

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YE3/YE4 系列 (IP55)

超超高效率三相异步电动机 (机座号132~450)

YE3/YE4-SERIES (IP55) super ultra high efficiency
3-PHASE ASYNCHRONOUS MOTORS (H132-450)



山西电机制造有限公司
SHANXI ELECTRIC MOTOR MANUFACTURING CO.,LTD.

YE3系列 (IP55)、YE4系列 (IP55) 超超高效率 三相异步电动机 (机座号132~450)

YE3/YE4-SERIES (IP55) super ultra high efficiency
3-PHASE ASYNCHRONOUS MOTORS (H132-450)

● 概述 Summary

YE3/YE4系列电动机是封闭式鼠笼型转子超高效率，超超高效三相异步电动机，广泛应用于一般用途的各种常用机械设备，如金属切削机床，鼓风机，水泵，压塑机等传动机械，是实现配套主机节能减排的理想产品。

YE3/YE4系列电动机的功率等级和安装尺寸符合IEC国际标准，与德国DIN2673标准相同，电动机的外壳防护等级为IP55，冷却方式为IC411，工作方式为连续工作制(S1)。电机的损耗与效率的测试方法按照IEC60034-2-1-2016，效率指标达到IEC60034-30-1-2014。

电动机的额定电压为380V，额定频率为50Hz。电动机运行地点的海拔不超过1000m；环境空气温度随季节变化，但不超过40度，最低环境空气温度不低于-15度

电动机可根据用户的要求进行派生制造。1. 不同电压, 不同频率。双轴伸。干(湿)热带型等特殊要求的电动机, 2. 电机可以根据用户要求提供绕组测温装置, 定子绕组温度温度开关, 轴承测温装置, 绕组加热带等。

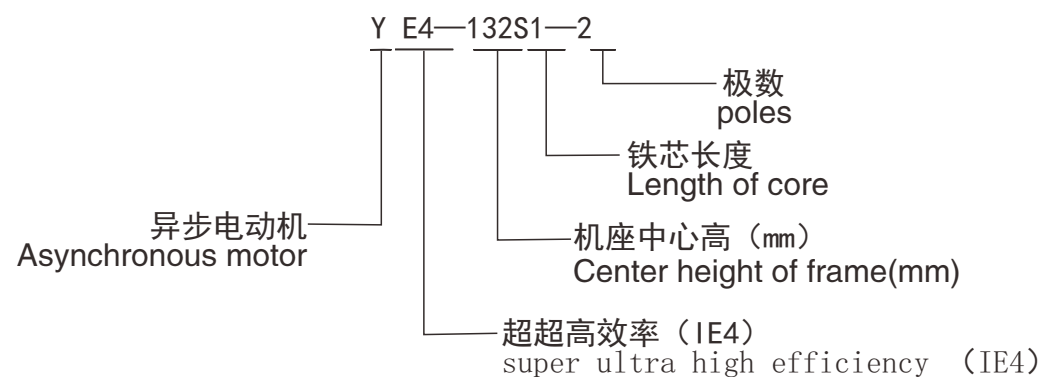
YE3/YE4 –series motor is totally enclosed squirrel-cage rotor ultra high efficiency, super ultra high efficiency three-phase asynchronous motor, it is widely used in the general use of all kinds of commonly use machinery and equipment, such as metal cutting machine tools, blowers, pumps, pressure molding machine and other mechanical drive, it is a Ideal products for Energy saving and emission reduction.

The power rating and assembling dimension of YE3/YE4 –series motor is in according with IEC international standard, same with the Germany DIN2673 standard, the protection grade of motor is IP55, cooling mode IC411, duty continuously (S1). Testing mode of the losses and efficiency for the motors according to IEC 60034–2–1–2016, efficiency targets according to IEC60034–30–1–2014.

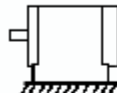
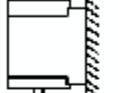
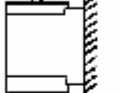
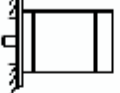
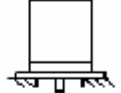
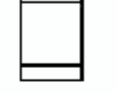
The rated voltage of this Motor is 380 V, rated frequency 50 Hz. The attitude of the motor should not exceed 1000 m; Ambient air temperature changes with the seasons, but no more than 40 °C, the lowest air temperature should not lower than -15 °C.

The Motor can be derived according to the user's requirements.1. The different voltage, different frequency .Biaxial stretching. Dry (wet) special requirements such as tropical type motor.2. The machine can according to user requirements to provide winding temperature measuring device, temperature of the stator winding temperature switch, bearing temperature measuring device, winding heating zone, etc.

● 型号释义 Model definition



● 结构及安装型式 Structure and assembling mode

基本结构 Basic	派生结构 Derived Structure					基本结构 Basic	派生结构 Derived Structure	
B3	B6	B7	B8	V5	V6	B5	V1	V3
								
H132~450	H132~160					H132~280	H132~450	H132~160

基本结构 Basic			派生结构 Derived Structure			基本结构 Basic		派生结构 Derived Structure						
B35			V15		V37		B34		B14		V18		V19	
H132~450			H132~160			H132~160								

● 节能分析 Analysis of Energy saving

型号 Type	额定功率 Rated power	额定电压 Rated voltage	额定频率 Rated frequency	效率 (%) Eff	功率因数 Power Factor	额定电流 Rared Curret
YE4-280M-4	90	380	50	96.1	0.88	161.70
YE3-280M-4	90	380	50	95.2	0.88	163.22
节电量Saved energy: $90 * (1/0.952 - 1/0.961) * 1 = 0.885 \text{kw} \cdot \text{h}$						
年运行时间(小时) Running time per year (hours)			3000	5000		7000
年节电量 (度) Saved energy (degrees)			2656.11	4426.85		6197.59
年节约电费 (按0.72元/度) (元) Electricity saved per year (0.72RMB/degree)(RMB)			1912.40	3183.33		4462.26

● 技术数据 Technical data

YE3同步转速Synchronous speed 3000r/min 380V 50Hz

型 号 TYPE		额定 功率 output kW	额定 电流 Electric Current A	额定 转速 Speed r / min	效率 Eff %	功率 因数 Power Factor	堵转转矩/ 额定转矩 Locked Torque/ Rated Torque	最大转矩/ 额定转矩 Max.Torque/ Rated Torque	堵转电流/ 额定电流 Electric Locked/ Electric Current	噪声 Noise dB (A)	振动 Vibration mm/s	重量 Weight kg	
2极 2poles	YE3-132S1-2	5.5	10.6	2900	89.2	0.88	2.2	2.3	8.0	79	1.3	69	
	YE3-132S2-2	7.5	14.2		90.1	0.89			7.8	79		74	
	YE3-160M1-2	11	20.6	2900	91.2	0.89			7.9	81	1.8	125	
	YE3-160M2-2	15	27.9		91.9	0.89			8.0	81		135	
	YE3-160L-2	18.5	34.2		92.4	0.89			8.1	81		153	
	YE3-180M-2	22	40.5	2940	92.7	0.89			8.2	83		183	
	YE3-200L1-2	30	54.9	2950	93.3	0.89			7.5	84		245	
	YE3-200L2-2	37	67.4		93.7	0.89			7.5	84		259	
	YE3-225M-2	45	81.7	2970	94.0	0.89			7.6	86	323		
	YE3-250M-2	55	99.6		94.3	0.89			7.6	89	367		
	YE3-280S-2	75	135.2		94.7	0.89			6.9	91	559		
	YE3-280M-2	90	161.7		95.0	0.89			7.0	91	602		
	YE3-315S-2	110	195.1	2980	95.2	0.90			7.1	92	873		
	YE3-315M-2	132	233.6		95.4	0.90			7.1	92	992		
	YE3-315L1-2	160	279.4		95.6	0.91			7.1	92	1122		
	YE3-315L2-2	200	348.6		95.8	0.91			7.1	92	1203		
	YE3-355M1-2	220	383.4	2985	95.8	0.91			2.2	7.1	100	2.3	1804
	YE3-355M2-2	250	435.7			0.91				7.1	100		1905
	YE3-355L1-2	280	488.0			0.91				7.1	100		2008
	YE3-355L2-2	315	537.0			0.91				7.1	100		2203
YE3-3551-2	355	618.7	0.91			1.6	7.2	104		2509			
YE3-3552-2	375	653.6	0.91				104	2809					

● 技术数据 Technical data

YE3同步转速Synchronous speed 1500r/min 380V 50Hz

型 号 TYPE		额定 功率 output kW	额定 电流 Electric Current A	额定 转速 Speed r / min	效率 Eff %	功率 因数 Power Factor	堵转转矩/ 额定转矩 Locked Torque/ Rated Torque	最大转矩/ 额定转矩 Max.Torque/ Rated Torque	堵转电流/ 额定电流 Electric Locked/ Electric Current	噪 声 Noise dB (A)	振动 Vibration mm/s	重量 Weight kg
4极 4poles	YE3-132S-4	5.5	11.4	1440	89.6	0.82	2.0		7.5	71	1.3	69
	YE3-132M-4	7.5	15.2			90.4			0.83	7.4		71
	YE3-160M-4	11	21.5	1460	91.4	0.85			7.5	73		123
	YE3-160L-4	15	28.8			92.1			0.86	7.5		73
	YE3-180M-4	18.5	35.3	1470	92.6	0.86			7.7	76		178
	YE3-180L-4	22	41.8			93.0			0.86	7.8		76
	YE3-200L-4	30	56.6		93.6	0.86			7.2	76		259
	YE3-225S-4	37	69.6			93.9			0.86	7.3		78
	YE3-225M-4	45	84.4		94.2	0.86			7.4	78		379
	YE3-250M-4	55	102.7			94.6			0.86	7.4		79
	YE3-280S-4	75	136.3	1480	95.0	0.88	2.2		6.7	80		532
	YE3-280M-4	90	163.2			95.2			0.88	6.9		80
	YE3-315S-4	110	199.1		95.4	0.88			6.9	88		909
	YE3-315M-4	132	238.4			95.6			0.88	6.9		88
	YE3-315L1-4	160	285.1	1490	95.8	0.89			6.9	88		1087
	YE3-315L2-4	200	355.7			96.0			0.89	6.9		88
	YE3-355M1-4	220	386.9		96.0	0.90			6.9	95		1582
	YE3-355M2-4	250	439.6			96.0			0.90	6.9		95
	YE3-355L1-4	280	492.4	1480	96.0	0.90			6.9	95		1735
	YE3-355L2-4	315	553.9			96.0			0.90	6.9		95
YE3-3551-4	355	624.2		96.0	0.90	1.7		6.5	95		2003	
YE3-3552-4	375	659.4			96.0			0.90	6.5		95	2306

● 技术数据 Technical data

YE3同步转速Synchronous speed 1000r/min 380V 50Hz

型 号 TYPE		额定 功率 output kW	额定 电流 Electric Current A	额定 转速 Speed r / min	效率 Eff %	功率 因数 Power Factor	堵转转矩/ 额定转矩 Locked Torque/ Rated Torque	最大转矩/ 额定转矩 Max.Torque/ Rated Torque	堵转电流/ 额定电流 Electric Locked/ ElectricCurrent	噪声 Noise dB (A)	振动 Vibration mm/s	重量 Weight kg
6极 6poles	YE3-132S-6	3	7.2	960	85.6	0.74	2.0	2.1	6.2	69	1.3	68
	YE3-132M1-6	4	9.5		86.8	0.74			6.8	69		77
	YE3-132M2-6	5.5	12.7		88.0	0.75			7.1	69		89
	YE3-160M-6	7.5	16.4	970	89.1	0.78	2.1		6.7	70	1.8	122
	YE3-160L-6	11	23.4		90.3	0.79			6.9	70		145
	YE3-180L-6	15	30.9		91.2	0.81	2.0		7.2	73	193	
	YE3-200L1-6	18.5	37.8		2.1	91.7	0.81		7.2	73	233	
	YE3-200L2-6	22	44.2			92.2	0.82		7.3	73	246	
	YE3-225M-6	30	60.6		990	92.9	0.81		2.0	7.1	74	326
	YE3-250M-6	37	71.7			93.3	0.84		2.1	7.1	76	375
	YE3-280S-6	45	84.8	93.7		0.86	2.0	7.2		78	484	
	YE3-280M-6	55	103.3	94.1		0.86		7.2	78	536		
	YE3-315S-6	75	141.7	990	94.6	0.85	2.0	6.7	83	2.3	889	
	YE3-315M-6	90	171.5		94.9	0.84		6.7	83		1017	
	YE3-315L1-6	110	206.8		95.1	0.85		6.7	83		1053	
	YE3-315L2-6	132	244.4	992	95.4	0.86		6.7	83	1148		
	YE3-355M1-6	160	292.3		95.6	0.87		6.7	85	1459		
	YE3-355M2-6	180	337.6		95.7	0.87		6.7	85	1557		
	YE3-355M3-6	200	364.6		95.8	0.87		6.7	85	1599		
	YE3-355L1-6	220	401.0		95.8	0.87		6.7	85	1656		
YE3-355L2-6	250	455.7	95.8		0.87	6.7		85	1674			
YE3-3552-6	315	574.2	95.8		0.87	6.8		83	1684			

● 技术数据 Technical data

YE4同步转速Synchronous speed 3000r/min 380V 50Hz

型号 Type		功率 Output kw	电流 Electric Current A	转速 Speed r/min	效率 Eff %	功率因数 Power Factor	堵转转矩/ 额定转矩 Locked Torque/ Rated Torque	最大转矩/ 额定转矩 Max.Torque/ Rated Torque	堵转电流/ 额定电流 Locked Current/ Rated torque	噪声 Noise dB(A)	振动 Vibration mm/s	重量 Weight kg
2极 2poles	YE4-132S1-2	5.5	10.4	2902	90.9	0.88	2.0	2.3	9.5	79	1.3	75
	YE4-132S2-2	7.5	14.0		91.7	0.89			9.5	79		81
	YE4-160M1-2	11	20.3		92.6	0.89			9.5	81	1.8	137
	YE4-160M2-2	15	27.4		93.3	0.89			9.5	81		148
	YE4-160L-2	18.5	33.7		93.7	0.89			9.5	81		168
	YE4-180M-2	22	40.0	2942	94.0	0.89			9.5	83		201
	YE4-200L1-2	30	54.2	2952	94.5	0.89			9.0	84		269
	YE4-200L2-2	37	66.6		94.8	0.89			9.0	84		284
	YE4-225M-2	45	80.9	2972	95.0	0.89			9.0	86		348
	YE4-250M-2	55	98.5		95.3	0.89			9.0	89		396
	YE4-280S-2	75	133.9		95.6	0.89	8.5	91	603			
	YE4-280M-2	90	160.4		95.8	0.89	8.5	91	650			
	YE4-315S-2	110	193.4		2982	96.0	0.90	1.8	8.5	92	2.3	942
	YE4-315M-2	132	231.6	96.2		0.90	8.5		92	1071		
	YE4-315L1-2	160	277.4	96.3		0.91	2.2	8.5	92	1211		
	YE4-315L2-2	200	346.0	96.5		0.91		8.5	92	1299		
	YE4-355M2-2	250	432.5	2987	96.5	0.91	1.6	2.2	8.5	100	2.3	1948
	YE4-355L2-2	315	545.0		96.5	0.91			8.5	100		2168
	YE4-355L3-2	355	621.0	2987	96.5	0.90	0.9	1.8	8.6	97	2684	
	YE4-400M2-2	400	699.8		96.5	0.90			8.6	97	3005	
	YE4-400M3-2	450	787.2		96.5	0.90	8.6		97	3100		
	YE4-400L1-2	500	874.7	2992	96.5	0.90	0.8		1.8	8.6	97	3200
	YE4-400L2-2	560	968.9		96.5	0.91		8.7		97	3300	
	YE4-4501-2	630	1090.0		96.5	0.91		8.7		97	3400	
YE4-4502-2	710	1228.4	2997	96.5	0.91	0.6	1.8	8.0		97	3500	
YE4-4503-2	800	1384.1		96.5	0.91			8.0	97	3600		
YE4-4504-2	900	1557.1		96.5	0.91			8.0	97	3700		



YE4同步转速Synchronous speed 1500r/min 380V 50Hz

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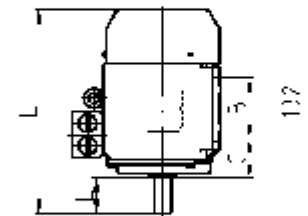
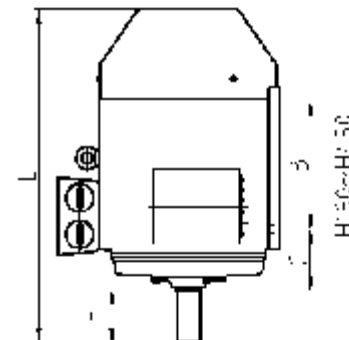
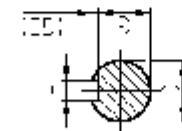
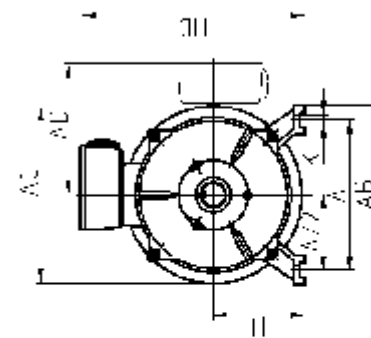
YE4同步转速Synchronous speed 1000r/min 380V 50Hz

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● 技术数据 Technical data

YE4同步转速Synchronous speed 750r/min 380V 50Hz

	型号 Type	功率 Output kw	电流 Electric Current A	转速 Speed r/min	效率 Eff %	功率因数 Power Factor	堵转转矩/ 额定转矩 Locked Torque/ Rated Torque	最大转矩/ 额定转矩 Max.Torque/ Rated Torque	堵转电流/ 额定电流 Locked Current/ Rated current	噪声 Noise dB(A)	振动 Vibration mm/s	重量 Weight kg
8极 8poles	YE4-132S-8	2.2	5.7	712	84.5	0.70	1.8	2.0	7.5	64	1.3	78
	YE4-132M-8	3	7.6		85.9	0.70			7.8	64		95
	YE4-160M1-8	4	9.6	722	87.1	0.73			7.9	68	1.8	127
	YE4-160M2-8	5.5	12.8		88.3	0.74			8.1	68		139
	YE4-160L-8	7.5	17.2	732	89.3	0.74			7.8	68		175
	YE4-180L-8	11	25.0		90.4	0.74			7.9	70		193
	YE4-200L-8	15	33.3		91.2	0.75			8.0	73		275
	YE4-225S-8	18.5	40.9		91.7	0.75			8.1	73		292
	YE4-225M-8	22	47.8	732	92.1	0.76			8.3	73		320
	YE4-250M-8	30	63.9		92.7	0.77			7.9	75		445
	YE4-280S-8	37	77.4		93.1	0.78			7.9	76		571
	YE4-280M-8	45	93.9		93.4	0.78			7.9	76		650
	YE4-315S-8	55	111.5		742	93.7	0.80	8.2	82	1089		
	YE4-315M-8	75	151.2			94.2	0.80	7.6	82	1210		
	YE4-315L1-8	90	178.8	94.4		0.81	7.7	82	1276			
	YE4-315L2-8	110	217.9	94.7		0.81	7.7	82	1352			
	YE4-355M1-8	132	260.9	747	94.9	0.81	7.7	89	2420			
	YE4-355M2-8	160	311.7		95.1	0.82	7.7	89	2601			
	YE4-355L-8	200	388.4		95.4	0.82	7.8	89	2722			
	YE4-400M2-8	250	497.7		95.4	0.80	7.6	89	2800			
	YE4-400L1-8	315	627.1		95.4	0.80	7.6	89	2900			
	YE4-400L2-8	355	706.7		752	95.4	0.80	7.6	91	3000		
	YE4-4501-8	400	796.3	95.4		0.80	7.6	91	3100			
	YE4-4502-8	450	874.0	757		95.4	0.82	7.8	93	3200		
YE4-4503-8	500	971.1	95.4			0.82	7.8	93	3300			
YE4-4504-8	560	1087.6							3400			



IMB3/IM1001

机头号 no. : head	安装尺寸及公差 installation and tolerance				mm			
	A	B	C	公差 tol.	D	E	F	G
132A 2~5	210	89	12.0	±0.3	132	12	1.0	1.0
132M 16~30	210	89	12.0	±0.3	132	12	1.0	1.0
160 16~30	210	89	12.0	±0.3	132	12	1.0	1.0
180M 16~30	210	89	12.0	±0.3	132	12	1.0	1.0
180 16~30	210	89	12.0	±0.3	132	12	1.0	1.0
225A 1~2	279	143	15.0	±0.4	180	18	1.5	1.5
225M 1~2	279	143	15.0	±0.4	180	18	1.5	1.5
225 1~2	279	143	15.0	±0.4	180	18	1.5	1.5
280A 1~2	356	183	18.0	±0.5	225	22	2.0	2.0
280M 1~2	356	183	18.0	±0.5	225	22	2.0	2.0
280 1~2	356	183	18.0	±0.5	225	22	2.0	2.0
315A 1~2	406	203	20.0	±0.6	280	28	2.5	2.5
315M 1~2	406	203	20.0	±0.6	280	28	2.5	2.5
315 1~2	406	203	20.0	±0.6	280	28	2.5	2.5
355A 1~2	457	213	21.0	±0.7	315	31	3.0	3.0
355M 1~2	457	213	21.0	±0.7	315	31	3.0	3.0
355 1~2	457	213	21.0	±0.7	315	31	3.0	3.0
400A 1~2	508	223	22.0	±0.8	355	35	3.5	3.5
400M 1~2	508	223	22.0	±0.8	355	35	3.5	3.5
400 1~2	508	223	22.0	±0.8	355	35	3.5	3.5
450A 1~2	568	233	23.0	±0.9	400	40	4.0	4.0
450M 1~2	568	233	23.0	±0.9	400	40	4.0	4.0
450 1~2	568	233	23.0	±0.9	400	40	4.0	4.0
500A 1~2	630	243	24.0	±1.0	450	45	4.5	4.5
500M 1~2	630	243	24.0	±1.0	450	45	4.5	4.5
500 1~2	630	243	24.0	±1.0	450	45	4.5	4.5
560A 1~2	700	253	25.0	±1.1	500	50	5.0	5.0
560M 1~2	700	253	25.0	±1.1	500	50	5.0	5.0
560 1~2	700	253	25.0	±1.1	500	50	5.0	5.0
630A 1~2	760	263	26.0	±1.2	560	56	5.6	5.6
630M 1~2	760	263	26.0	±1.2	560	56	5.6	5.6
630 1~2	760	263	26.0	±1.2	560	56	5.6	5.6
710A 1~2	830	273	27.0	±1.3	630	63	6.3	6.3
710M 1~2	830	273	27.0	±1.3	630	63	6.3	6.3
710 1~2	830	273	27.0	±1.3	630	63	6.3	6.3
800A 1~2	900	283	28.0	±1.4	710	71	7.1	7.1
800M 1~2	900	283	28.0	±1.4	710	71	7.1	7.1
800 1~2	900	283	28.0	±1.4	710	71	7.1	7.1

333mm



服务承诺 *Service commitment*

8、在关于电机性能、使用等方面的技术性咨询，我公司愿提供详细的无偿服务。

8. With regard to technical consultation on motor performance and use, our company is willing to provide detailed free service.