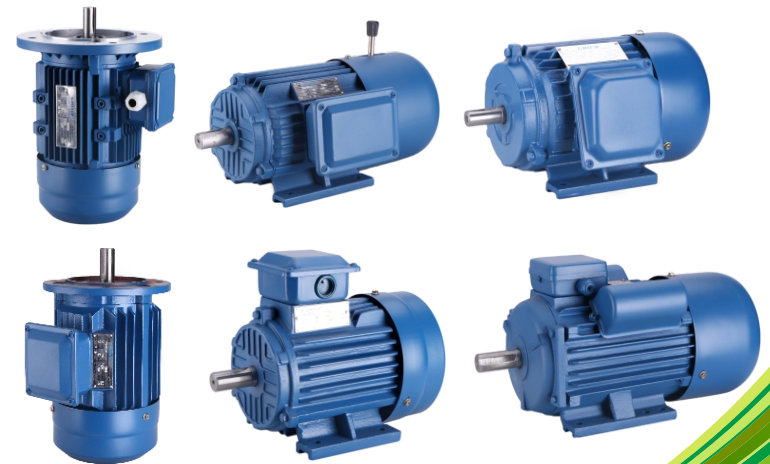


VULCAN LTD



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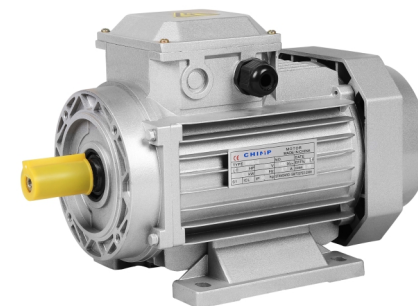
MS 系列铝壳三相电动机 SERIES HIGH-EFFICIENCY INDUCTION MOTOR

产品概述/Product features

CE CCC ISO9001

MS系列铝壳三相异步电机,符合国际电工协会IEC有关规定,选用优质原材料,进行最新式整体设计。具有性能好、噪音低、振动小、运行安全可靠、外形美观、体积小、重量轻、结构简单、维修方便等优点。适用于减速机、风机、水泵、空压机、流水线、包装业、食品机械、木工机械等。

MS series aluminum housing three-phase asynchronous motors, in line with the relevant provisions of the International Electrotechnical Commission IEC, made of high quality raw materials, latest The style overall design. Has a good performance, low noise, small vibration, safe and reliable operation, nice appearance, small size, light weight, simple structure, easy maintenance, etc. Applicable to the reducer, fans, pumps, air compressors, lines, packaging industry, food machinery, Woodworking machinery, etc.



产品相关参数/Application

环境温度(Ambient temperature) : $-15^{\circ}\text{C} < \theta < 40^{\circ}\text{C}$

海拔(Elevation) : $< 1000\text{m}$

额定电压(Rated voltage) : 380, 可选(Optional)220V~720V

工作方式(Work) : S1 (连续工作制 Continuous duty)

绝缘等级(Insulation class) : B、F、H

防护等级(Protection class) : IP54(IP55)

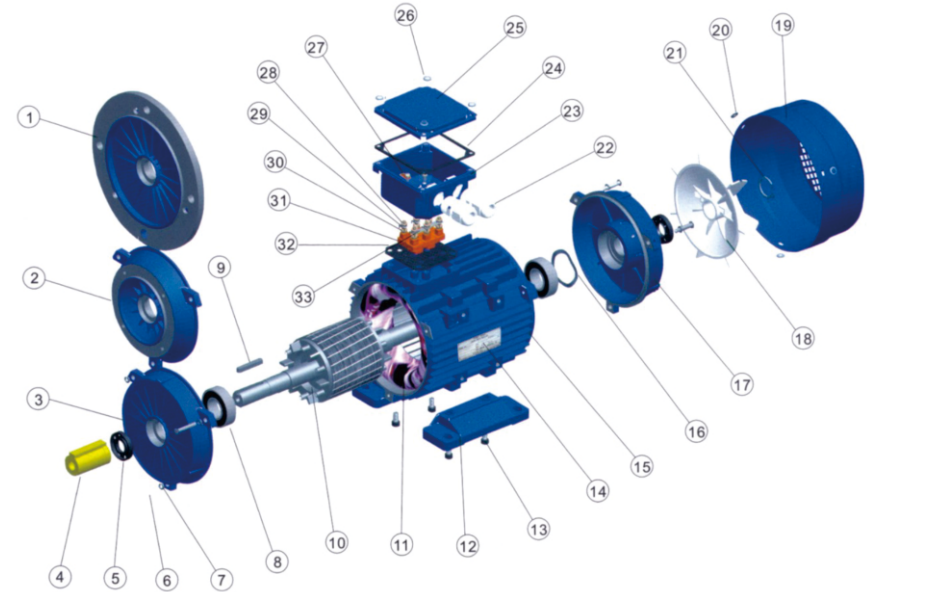
冷却方式(Cooling method) : IC0141



技术参数/Technical Parameters

型号 TYPE	功率 Power KW	电流 Current (A)	功率因数 Power Factor	效率 Eff (%)	转速 Speed (r/min)	堵转转矩 额定转矩 Tstart/Tn	堵转电流 额定电流 Ist/In	最大转矩 额定转矩 Tmax/Tn	净重 N.W.kg	QTY/20'	包装尺寸 Packing size (mm)
380V 50Hz Synchronous Speed 3000r/min(2Poles)											
MS561-2	0.09	0.30	0.68	62.0	2800	2.3	6.0	2.4	3.6	6000	220X120X165
MS562-2	0.12	0.37	0.75	67.0	2800	2.3	6.0	2.4	4.0	5000	220X120X165
MS631-2	0.18	0.53	0.80	69.0	2800	2.3	6.0	2.4	4.1	4400	260X150X165
MS632-2	0.25	0.69	0.81	72.0	2800	2.3	6.0	2.4	4.5	4400	260X150X165
MS711-2	0.37	0.99	0.81	73.5	2800	2.3	6.0	2.4	5.6	3000	285X170X200
MS712-2	0.55	1.40	0.82	75.5	2800	2.3	6.0	2.4	6.2	3000	285X170X200
MS801-2	0.75	1.83	0.83	76.5	2800	2.3	6.0	2.4	9.1	2200	330X190X215
MS802-2	1.1	2.58	0.84	77.0	2800	2.3	6.5	2.4	10	2000	330X190X215
MS90S-2	1.5	3.43	0.84	78.5	2800	2.3	6.5	2.4	12	1500	375X210X230
MS90L-2	2.2	4.85	0.85	81.0	2800	2.3	6.5	2.4	13.2	1500	375X210X230
MS100L-2	3	6.31	0.87	82.6	2870	2.3	7.0	2.4	22	960	400X225X320
MS112M-2	4	8.12	0.88	84.2	2890	2.3	7.0	2.4	30	700	420X255X335
MS132S1-2	5.5	11.0	0.88	85.7	2900	2.3	7.0	2.4	43	460	515X345X375
MS132S2-2	7.5	14.9	0.88	87.0	2900	2.3	7.0	2.4	49	450	515X345X375
MS160M1-2	11	21.3	0.89	88.0	2930	2.3	7.0	2.4	69	190	700X450X420
MS160M2-2	15	28.8	0.89	89.0	2930	2.3	7.0	2.4	78	190	700X450X420
MS160L-2	18.5	34.7	0.90	90.0	2930	2.3	7.0	2.4	81	190	700X450X420
380V 50Hz Synchronous Speed 1500r/min(4Poles)											
MS561-4	0.06	0.27	0.68	56.0	1300	2.2	5.5	2.3	3.6	6000	220X120X165
MS562-4	0.09	0.36	0.70	58.0	1300	2.2	5.5	2.3	4	5000	220X120X165
MS631-4	0.12	0.44	0.72	60.0	1310	2.2	5.5	2.3	4	4400	260X150X165
MS632-4	0.18	0.62	0.73	64.0	1310	2.2	5.5	2.3	4.5	4400	260X150X165
MS711-4	0.25	0.79	0.74	67.0	1330	2.2	5.5	2.3	5.6	3000	285X170X160
MS712-4	0.37	1.12	0.75	69.5	1330	2.2	5.5	2.3	6	3000	285X170X160
MS801-4	0.55	1.57	0.75	73.5	1390	2.3	6.0	2.4	9	2200	320X190X215
MS802-4	0.75	2.05	0.76	75.5	1390	2.3	6.0	2.4	10	2200	320X190X230
MS90S-4	1.1	2.89	0.77	78.0	1400	2.3	6.0	2.4	12	1500	375X210X230
MS90L-4	1.5	3.70	0.79	79.0	1400	2.3	6.0	2.4	13.2	1500	375X210X235
MS100L1-4	2.2	5.16	0.81	81.0	1430	2.3	7.0	2.4	21	960	400X225X320
MS100L2-4	3	6.78	0.82	82.6	1430	2.3	7.0	2.4	24.8	960	400X225X320
MS112M-4	4	8.82	0.82	84.2	1440	2.3	7.0	2.4	29	700	420X255X290
MS132S-4	5.5	11.8	0.83	85.7	1440	2.3	7.0	2.4	44	460	510X345X375
MS132M-4	7.5	15.6	0.84	87.0	1440	2.3	7.0	2.4	54	450	520X345X375
MS160M-4	11	22.3	0.84	88.0	1460	2.2	7.0	2.3	71	190	700X450X420
MS160L-4	15	30.1	0.85	89.0	1460	2.2	7.0	2.3	79	190	700X450X420
380V 50Hz Synchronous Speed 1000r/min(6Poles)											
MS711-6	0.18	0.74	0.66	59.0	850	2.0	5.5	2.2	5.4	3000	285X170X200
MS712-6	0.25	0.95	0.68	63.0	850	2.0	5.5	2.2	6.0	3000	285X170X200
MS801-6	0.37	1.30	0.70	68.0	890	2.0	5.5	2.2	9	2200	320X190X215
MS802-6	0.55	1.79	0.72	71.0	890	2.0	5.5	2.2	11	2200	320X190X230
MS90S-6	0.75	2.29	0.72	73.0	910	2.1	5.5	2.2	13	1500	375X210X235
MS90L-6	1.1	3.18	0.73	74.0	910	2.1	5.5	2.2	14.2	1500	375X110X235
MS100L-6	1.5	3.95	0.76	76.0	940	2.1	5.5	2.2	21	960	400X225X320
MS112M-6	2.2	5.57	0.76	79.0	940	2.2	6.5	2.3	27	700	420X255X335
MS132S-6	3	7.40	0.76	81.0	960	2.2	6.5	2.3	44	460	520X345X375
MS132M1-6	4	9.75	0.76	82.0	960	2.2	6.5	2.3	52	450	520X345X375
MS132M2-6	5.5	12.9	0.77	84.0	960	2.2	6.5	2.3	58	450	520X345X375
MS160M-6	7.5	17.0	0.77	86.0	970	2.2	6.5	2.3	70	190	700X450X420
MS160L-6	11	24.2	0.78	87.5	970	2.2	6.5	2.3	79	190	700X450X420
380V 50Hz Synchronous Speed 750r/min(8Poles)											
MS801-8	0.18	0.88	0.61	51	630	1.8	4.0	1.9	8.8	2200	320X190X215
MS802-8	0.25	1.15	0.61	54	640	1.8	4.0	1.9	11	2200	320X190X215
MS90S-8	0.37	1.49	0.61	62	660	1.8	4.0	1.9	13	1500	375X210X235
MS90L-8	0.55	2.18	0.61	63	660	1.8	4.0	2.0	14	1500	375X210X235
MS100L1-8	0.75	2.53	0.67	71	690	1.8	4.0	2.0	20	960	400X225X320
MS100L2-8	1.1	3.32	0.69	73	690	1.8	5.0	2.0	26	960	400X225X320
MS112M-8	1.5	4.50	0.69	75	680	1.8	5.0	2.0	43	700	420X255X335
MS132S-8	2.2	6.00	0.71	78	710	1.8	6.0	2.0	51	450	520X345X375
MS132M-8	3.0	7.90	0.73	79	710	1.8	6.0	2.0	57	450	520X345X375
MS160M1-8	4.0	10.3	0.73	81	720	1.9	6.0	2.0	69	190	700X450X420
MS160M2-8	5.5	13.6	0.74	83	720	2.0	6.0	2.0	78	190	700X450X420
MS160L-8	7.5	17.8	0.75	85	720	2.0	6.0	2.0	81	190	700X450X420

产品分解图 EXPLODED VIEW



- | | | |
|------------------------------|------------------------------|-----------------------------|
| 1. B5 法兰 (B5 Flange) | 13. 铝底脚螺栓 (Pedstal bolt) | 25. 接线盒盖 (Terminal box lid) |
| 2. B14 法兰 (Front end shield) | 14. 铭牌 (Name plate) | 26. 螺丝 (Screw) |
| 3. 前端盖 (Front end shield) | 15. 机座 (Frame) | 27. 接地标志 (Earth mark) |
| 4. 轴套 (Shaft cover) | 16. 波形垫圈 (Wave form) | 28. 铜垫帽 (Brass washer) |
| 5. 弹簧垫圈 (Spring washer) | 17. 后端盖 (Rear end shield) | 29. 扣帽 (Deduction cap) |
| 6. 密封圈 (Vring Oil seal) | 18. 风叶 (Fan) | 30. 铜垫片 (Brass net) |
| 7. 螺栓 (Bolt) | 19. 风罩 (Fan cowl) | 31. 接线板 (Terminal board) |
| 8. 轴承 (Bearing) | 20. 风罩螺丝 (Fan cowl Screw) | 32. 皮垫 (Leather washer) |
| 9. 键 (Key) | 21. 风叶卡簧 (Fancilamp) | 33. 铜连接片 (Brass lug) |
| 10. 转子 (Rotor) | 22. PG | |
| 11. 定子 (Stator) | 23. 接线盒座 (Terminal box base) | |
| 12. 铝底脚 (Pedstal) | 24. 密封垫 (Gasket) | |

产品概述/Product features

YL系列单相双值电容异步电动机按国家标准设计制造，具有启动转矩大和运行稳定、噪音小、体积小、重量轻、维护方便等特点。广泛应用于空气压缩机、水泵、风机、制冷、医疗器械及小型机械等。对只有单相电源的场合尤为适用。

产品相关参数/Application

环境温度(Ambient temperature) : $-15^{\circ}\text{C} \leq \theta \leq 40^{\circ}\text{C}$
海拔(Elevation) : < 1000m
额定电压(Rated voltage) : $220\text{V} \pm 5\%$

技术参数/Technical Parameters

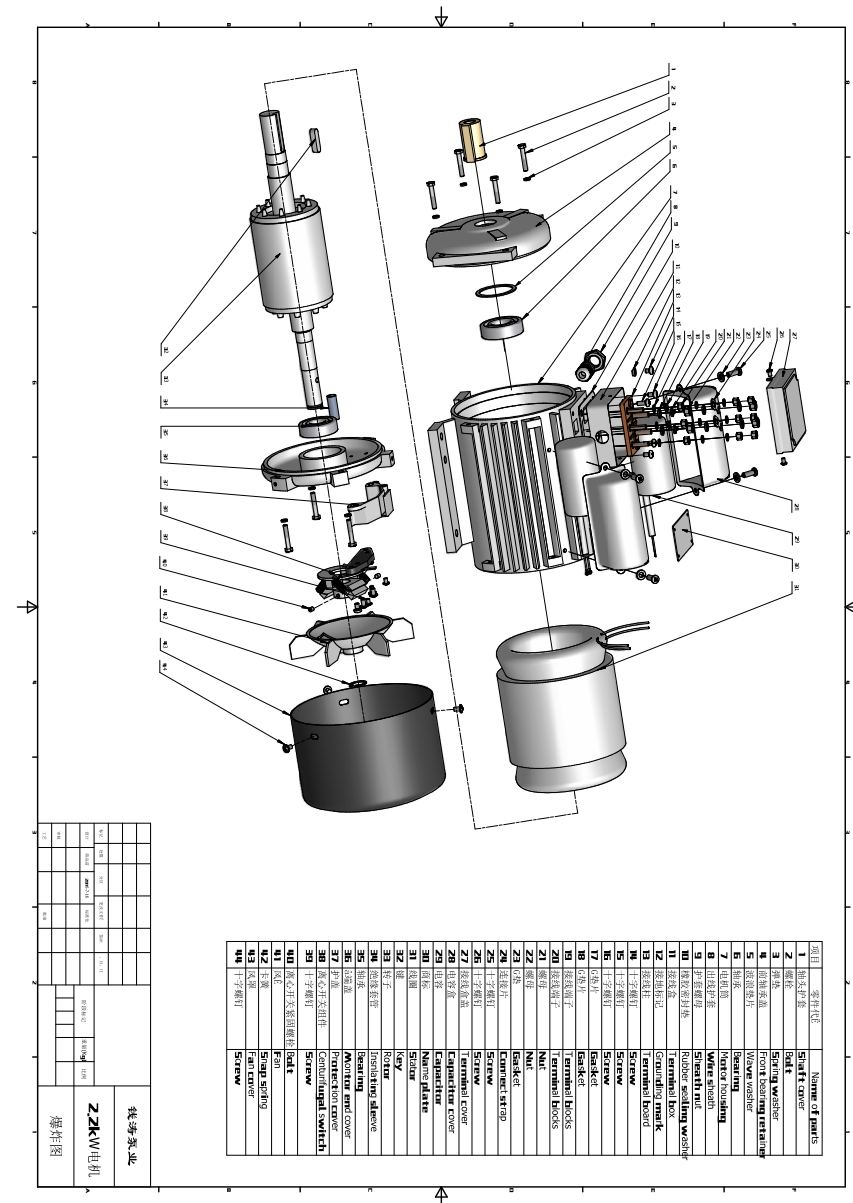
型号 Type	功率 Output(kw)	额定转速 Rated speed (r/min)	电压 Voltage (V)	频率 Frequency (Hz)	额定电流 Rated current (A)	效率 Eff(%)	功率因素 Power factor (cosφ)	堵转转矩 额定转矩 Locked rotor current Rated torque	堵转电流 额定电流 Locked rotor torque Rated torque	最大转矩 额定转矩 Pull out torque Rated torque
YL711-2	0.37	2800	220	50	2.73	67.0	0.92	1.8	16	1.7
YL712-2	0.55	2800	220	50	3.88	70.0	0.92	1.8	21	1.7
YL801-2	0.75	2800	220	50	5.15	72.0	0.92	1.8	29	1.7
YL802-2	1.1	2800	220	50	6.85	75.0	0.95	1.8	40	1.7
YL90S-2	1.5	2800	220	50	9.44	76.0	0.95	1.7	55	1.7
YL90L-2	2.2	2800	220	50	13.67	77.0	0.95	1.7	80	1.7
YL100L-2	3	2800	220	50	18.2	79.0	0.95	1.7	110	1.7
YL112M-2	3.7	2900	220	50	21.9	80.0	0.96	1.7	130	1.7
YL132S-2	5.5	2900	220	50	31	82.0	0.97	1.7	/	1.7
YL132M-2	7.5	2900	220	50	43	84.0	0.97	1.7	/	1.7
YL711-4	0.25	1400	220	50	2.02	62.0	0.92	1.8	12	1.7
YL712-4	0.37	1400	220	50	2.81	65.0	0.92	1.8	16	1.7
YL801-4	0.55	1400	220	50	3.88	68.0	0.92	1.8	21	1.7
YL802-4	0.75	1400	220	50	5.22	71.0	0.92	1.8	29	1.7
YL90S-4	1.1	1400	220	50	7.21	73.0	0.95	1.7	40	1.7
YL90L-4	1.5	1400	220	50	9.57	76.0	0.95	1.7	55	1.7
YL100L1-4	2.2	1400	220	50	13.9	77.0	0.95	1.7	80	1.7
YL100L2-4	3	1400	220	50	18.6	78.0	0.95	1.7	110	1.7
YL112M-4	3.7	1400	220	50	23	79.0	0.95	1.7	140	1.7
YL132M1-4	5.5	1400	220	50	32	81.0	0.96	1.7	/	1.7
YL132M2-4	7.5	1400	220	50	45	83.0	0.96	1.7	/	1.7

CE **ISO9001**

YL series single phase dual-capacitor induction motor is designed and manufactured according to national standard, newly developed by our company with low noise, compact construction, light weight, easy maintenance, etc. medical instruments, small size machines, etc. especially for occasion where only single-phase power supply is available.



产品分解图 EXPLODED VIEW



附录 / APPENDIX

故障	可能的原因	检查或者校正方法
1.电动机空载时不能启动	1.馈电路断线(三相当中的一根) 2.定子三相绕组中的一相断路 (“Y”形连接时) 3.电源电压或者频率不对	检查电压及频率。 检查保险丝，馈电线内电流和每一相电阻的电阻。 检查电源电压和个别接处。
2.电动机在负载时不能启动，在低负载或者空载时能启动，但在负载增加后转速即大跌或甚至停下来	1.电源电压过低 2.电子绕组有匝间短路 3.定子三相绕组中异相断线 (“Δ”接线法时) 4.过载	检查线路电压。 检查每相绕组和每相空载电流。 检查每相绕组电阻。 检查负载。
3.电机停留在低转速	1.定子绕组一相接反，电动机发声 2.转子端环和导杆中间有断裂情况	检查馈电线的电流和引出线标记。 检查短路电流。
4.定子过热	1.馈电线路三根中有一根断线或者定子绕组一相短路 2.电源电压过大或过低 3.过载 4.电子匝间或相间短路 5.通风不好	检查保险丝，线间电压和导线电流。 检查馈电线内的电流， 检查电子相间的对地绝缘电阻 检查绕组电阻，检查通风孔道。
5.轴承过热	1.装配不对 2.电动机轴与被拖动之轴不平行 3.没有润滑油，油内有杂物或油质不良 4.皮带过紧 5.不平衡的磁性吸力大	检查转子是否容易转动。 校正两轴平衡。 用汽车洗刷更换润滑油。 松皮带或移动底脚。 检查空气隙偏心度。
6.合闸时保险设备跳闸	1.电子绕组一相接反 2.把应当接成“Y”形的定子三相绕组接成子“Δ”形 3.扫组对机座短路或相间短路	检查引出线标记和接法。 检查各相绕组对机座的绝缘以及相间绝缘。
7.机械振动大	1.转子不平衡只在相间低的转数时才不振动 2.轴向窜动大 3.传动皮带接头接不好 4.皮带轮不平稳	检查平衡情况。 检查轴承外的间隙， 并加以调整。 重新接皮带。 检查皮带轮。

Stoppage	possible reasons	Check or calibration methods
1.No-load motor can not start	1.Circuit broken wires (noe of the three is the root) 2.When the child three-phase winding of the a phase breakers ("Y" type of connection) 3.The power supply voltage and frequency is wrong	Check the power supply voltage or individual connnection. Check the fuse,feeders of the current and each phase of the winding resistance. Check voltage and frequency
2.Motor load in cannot begin at lowload or no-load tu start when, but in load increase speed that are even stop to plunge	1.The low voltage power supply 2.the group turns around the son between short circuit. 3.the stator three-phasewinding out-of-phase break line("Δ"then method) 4.overload	Check the voltage Check each phase windings and each phase no-load current Check each phase winding resistance Check the load
3.Motor stay in low rotation speed	1.A connect the stator winding, motor hair crosstalk. 2.The rotor ring and guide bar among fracture	Check feeders current and lead wire mark; Check short-circuit current
4. Stator overheating	1.Feeders three roots there was a break or stator winding a phase open circuit 2.The power supply voltage too big or too low 3.Overload 4.Same stator circle or short circuit 5.And ventiated bad	Check the fuse, line voltage and current between wire; Check the current in a feeders; Check the stator alternate with and group insulation resistance; Check the winding resistance and stable way
5.Bearing overheating	1.The assembly wrong 2.The motor shaft and the dragging is not parallel axis 3.No lubricating oil, oil impurities or oily bad there 4.Belts tight 5.Do not balance of magnetic big suction	Check whether the rotor to turn; Correction two axis balance; Use the car wash oil changing: The belt or loose move feed; Check the aie gap eccentric degrees
6.When feeder insurance facilities trip	1.A connect the stator winding 2.Put a "Y" shall meet type stator windings to become"Δ" 3.Windings base to short circuit or alternate with short circuit.	Check mark and lead wier by law; Check the phase windings of the insulation and the same base of insulation.
7.Mechanical vibration	1.Relet not only in balance quite a low speed do not vibration 2.The axial moving there 3.transmission belt joint answered the bad 4. pulley is not even	Check the balance situation; Check the clearance of bearing, and to make adjustments. Tomeet the belt; Check the pulley.