浙江威茨机械有限公司
ZHEJIANG WENCE MACHINERY CO.,LTD

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WENCE 威茨

INTRODUCTION

浙江威茨机械

浙江威茨电机有限公司是一家具有现代化生产规模的综合性电机制造供应商。公司拥有一支具有行业领先水平的资深研发团队，严格科学的质量管理体系，国内最先进的自动化生产设备及完善的现代化管理系统。

产品有 YS 系列铝壳三相异步电动机，YE2，YE3 系列高效，超高效电机，YVF2 变频电机，YEJ2 制动电机，产品品质被市场广泛认可，运用如：能源环保，石油化工，建筑建材，橡塑机械，包装机械，玻璃陶瓷，立体仓库，机器人，自动化控制设备等领域中，我们利用技术上的优势，产品远销德国，意大利，美国等欧美国家，在国内，东南亚地区更有广泛的客户群体和固定的销售渠道。

为了保证客户使用满意度，我们引进了先进的设备设施，并在生产每个环节贯切完善的质量检测，严格按照 ISO9001 国际质量标准运作，产品通过中国 CCC 强制性认证，欧共体 CE 认证，产品按国际 IEC 标准生产，所有产品均达到国际同类产品的先进水平。

品牌愿景：为员工创造福利，为客户创造利润，为社会创造价值，努力打造成为中国电机专业制造商。

Zhejiang Wence Machinery Co.,Ltd. is a comprehensive motor manufacturer with modern production scale. The company has a senior research and development team with leading industry level, strict and scientific quality management system, the most advanced automated production equipment and perfect modern management system.

The products are YS series aluminum shell three-phase asynchronous motor, YE2, YE3 series high-efficiency, ultra-high-efficiency motor, YVF2 frequency conversion motor, YEJ2 brake motor, product quality is widely recognized by the market, such as: energy environmental protection, petrochemical, building materials, rubber and plastic machinery, packaging machinery, glass and ceramics, three-dimensional warehouse, robots, automation. In the field of chemical control equipment, we take advantage of technical advantages, products are exported to Germany, Italy, the United States and other European and American countries, in China, Southeast Asia more extensive customer groups and fixed sales channels.

In order to ensure customer satisfaction, we have introduced advanced equipment and facilities, and in the production of every link through perfect quality testing, strictly in accordance with ISO 9001 international quality standards, products through China CCC mandatory certification, CE certification, products produced according to international IEC standards, all products are up to international standards. Advanced level of products.

Brand vision: to create welfare for employees, create profits for customers, create value for society, and strive to become a professional manufacturer of electrical machinery in China.

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NOMAL MOTOR
普通电机

深耕高端制造产业链，驱动中国制造 2025。

Deep plough high-end manufacturing industry chain, driven by MADE IN CHINA 2025.

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电机代号说明 / MACHINE CODE DESCRIPTION

YE — 3 — 90 — S — 4 — B5

- B5 — 电机安装方式 /Motor mounting modality
- 4 — 级数 /Number of poles
- S — 铁芯代号 /Core longth number
- 90 — 电机中心高 /Motor center height
- 3 — 3-IE3（2 级能效）2-IE2(3 级能效）
- YE — 系列代码 /Series code

防护等级 / PROTECTION GRADE

IP — 5 — 5

- 5 — 防喷淋 /Fire sprinider
- 5 — 防尘 /Dust
- IP — 国际防护表征字母 International Protection of characterization of letters

冷却方式 / COOLING MODE

IC — 411

- 411 — 全封闭自扇冷式 /Totally enclosed fan cooled
- IC — 国际冷却法 /The cooling method

运行环境 / THE OPERATING ENVIRONMENT

一般用途的电动机，其定额应为最大连续定额，并能按 S1 工作制运行。

S1- 连续工作制：电动机在恒定负载下运行，运行时间足以达到热稳定。

S2- 短时工作制：电动机在恒定的负载下，按给定的时间运行，该时间不足以达到热稳定，随之断电，然后停止转动有足够时间，使电动冷却到环境温度。

在额定电压，额定频率下，使用的环境空气温度不超过 -15≤Q≤40°

海波高度不超过 1000 米。绝缘等级 F 级，定子绕组温升考核 80K。外壳防护：IP54、IP55、IP56。

冷却方式：IC411。

本公司生产的电动机均为 S1 工作制。外壳防护如无特特殊要求均按 IP54 生产。

过载系数：$\lambda = \frac{Tmax}{TN}$

General-purpose motor,the maximum continuous rating should be fixed,and can run in S1 duty.

S1-continuous duty:the motor running at constant load,running time sufficient to achieve thermal stability.

S2-short-time work:the motor at a constant load,running at a given time,the time

Sufficient to achieve thermal stability,along with power,and there is sufficient time to stop the rotation,to the ring of the electric cooling Ambient temperature

At rated voltage,rated frequency,ambient air temperatures do not exceed-15≤Q≤40 ℃ Not more than 1000 meters above sea level. Insulation class F,the stator winding temperature rise assessment 80K.Anti shell

proof:IP54、IP55、IP56.cooling method:Ic411.

The company produces both S1 motor duty.Enclosure protection according to IP54 if no special requirements Produce.

Overload factor: λ = Tmax/TN

●注意 / NOTE

1、三相电动机的 Tmax 和电压的平方成正比，所以对电压的波动很敏感，使用时要注意电压的变化。
Three-phase motor is proportional to the square of the voltage and Tmax,it is sensitive to voltage fluctuations,Note the use of the voltage variation.

2、工作时一定使负载的转矩 TL < Tmax, 否则电机将会停转或过热而烧毁。
Must make the work load torque TL < Tmax,otherwise the motor will stall or overheat.

电机应用规范 / THE MOTOR APPLICATION SPECIFICATION

一、额定电压和频率 /The rated voltage and frequency

每种型号的电机都规定了额定工作电压及频率。铭牌上有标示。电机在使用时要检查电源电压和频率与电机规定值相符，如果不符将不能保证电机的性能指标有效的发挥，严重时将会造成一定的人身伤害。

Each model provides motors are rated working voltage and frequency.There are marked on the nameplate.Motor When used to check the value of the supply voltage and frequency match the motor provides power if the match can not be guaranteed Performance machine to function effectively, will cause some serious bodily injury.

所有电动机的电源电压，不得超过或降低 ±5%，频率不得偏离额定的 ±1%。

All motor supply voltage must not exceed or reduce ±5%,shall not deviate from the nominal frequency ±1%.

三相异步电动机在额定频率下可按△形接线和Y形接线。电动机在这两种接法的额定值下运行将保持完全相同的运行特性，按照国家电源标准，三相异步电动机 3Kw 及以下按 Y 形接法 380V/50Hz。△形接线 220V/50Hz 提供。4Kw 及以上按△形接线，380V/50Hz 提供。如果用户有其他特殊要求，订货时可提出。

Three-phase asynchronous motors at rated frequency can be △ Y-shaped wiring and wiring.Motors which in this ratings run two configurations will remain the same operating characteristics.

According to the national power standards,Three-phase asynchronous motor 4Kw and below by a Y-shaped junction 380V/50Hz. △-shaped wiring 220V/50Hz mention Supply .4Kw and over by △ -shaped wiring,380V/50Hz available.If you have other special requirements,please let us know when making the order.

YE2 系列技术参数 / YE2 SERIES TECHNICAL PARAMETERS

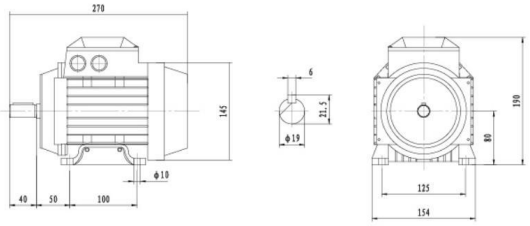
1500r/min 380V 50Hz

型号 TYPE	额定功率 RATED OUTPUT		额定转速 RATED SPEED	效率 EFFICENCY	功率因数 POWER FOCTOR	额定电流 RATED CURRENT	额定转矩 RATED TORQUE	堵转转矩 LOCKED ROTOR TORQUE	最大转矩 MAXIMUM TORQUE	堵转电流 LOCKED ROTOR CURRENT
								额定转矩 RATED TORQUE	额定转矩 RATED TORQUE	额定电流 RATED CURRENT
	Kw	HP	r pm	η %(IE2)	COSΦ	A	Nm	Ts/Tn	Tmax/Tn	Is/In
YE2-802-4	0.75	1	1400	79.6	0.76	1.88	5.12	2.30	2.3	6.6
YE2-90S-4	1.1	1.5	1440	81.4	0.77	2.67	7.30	2.30	2.3	6.8
YE2-90L-4	1.5	2	1440	82.8	0.77	3.57	9.95	2.30	2.3	7.0
YE2-100L1-4	2.2	3	1440	84.3	0.81	4.90	14.60	2.30	2.3	7.6
YE2-100L2-4	3	4	1440	85.5	0.82	6.50	19.90	2.30	2.3	7.6
YE2-112M-4	4	5.5	1440	86.6	0.82	8.56	26.50	2.20	2.3	7.8
YE2-132S-4	5.5	7.5	1450	87.7	0.83	11.5	36.20	2.00	2.3	7.9
YE2-132M-4	7.5	10	1450	88.7	0.84	15.3	49.40	2.00	2.3	7.5
YE2-160M-4	11	15	1460	89.8	0.84	22.2	72.00	2.20	2.3	7.7
YE2-160L-4	15	20	1460	90.6	0.85	29.6	98.10	2.20	2.3	7.8
YE2-180M-4	18.5	25	1470	91.2	0.86	35.8	120.20	2.00	2.3	7.8
YE2-180L-4	22	30	1470	91.6	0.86	42.4	142.90	2.00	2.3	7.8

1000r/min 380V 50Hz

型号 TYPE	额定功率 RATED OUTPUT		额定转速 RATED SPEED	效率 EFFICENCY	功率因数 POWER FOCTOR	额定电流 RATED CURRENT	额定转矩 RATED TORQUE	堵转转矩 LOCKED ROTOR TORQUE	最大转矩 MAXIMUM TORQUE	堵转电流 LOCKED ROTOR CURRENT
								额定转矩 RATED TORQUE	额定转矩 RATED TORQUE	额定电流 RATED CURRENT
	Kw	HP	r pm	η %(IE2)	COSΦ	A	Nm	Ts/Tn	Tmax/Tn	Is/In
YE2-90S-6	0.75	1	930	75.9	0.72	2.09	7.7	2.0	2.1	6.0
YE2-90L-6	1.1	1.5	940	78.1	0.72	2.97	11.2	2.0	2.1	6.0
YE2-100L-6	1.5	2	940	79.8	0.75	3.80	15.2	2.0	2.1	6.5
YE2-112M-6	2.2	3	960	81.8	0.76	5.38	21.9	2.0	2.1	6.6
YE2-132S-6	3	4	960	83.3	0.76	7.20	29.8	2.0	2.1	6.8
YE2-132M1-6	4	5.5	960	84.6	0.76	9.45	39.8	2.0	2.1	6.8
YE2-132M2-6	5.5	7.5	960	86.0	0.77	12.6	54.7	2.0	2.1	7.0
YE2-160M-6	7.5	10	970	87.2	0.78	16.8	73.8	2.0	2.1	7.0
YE2-160L-6	11	15	970	88.7	0.78	24.2	108.3	2.0	2.1	7.2
YE2-180L-6	15	20	970	89.7	0.81	31.4	147.7	2.0	2.1	7.3

B3 YE2.YE3 80M



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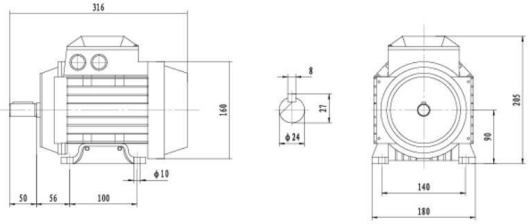

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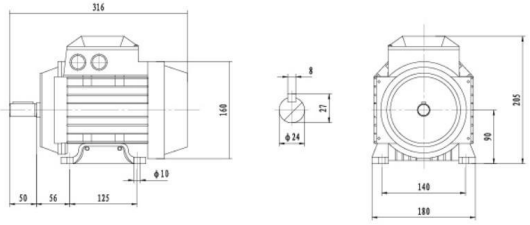

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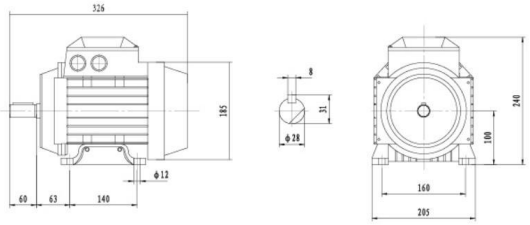

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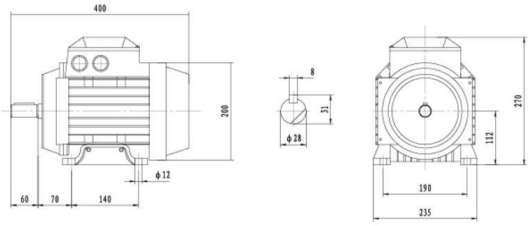

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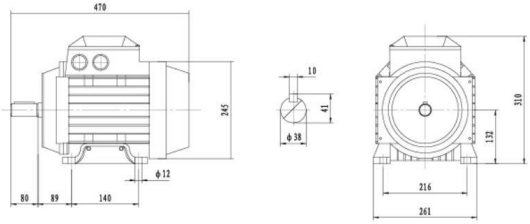

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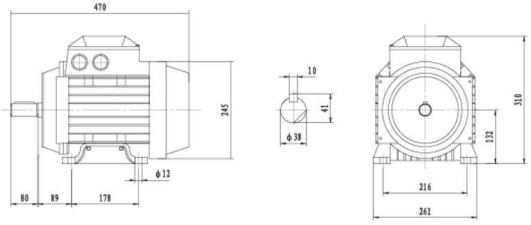

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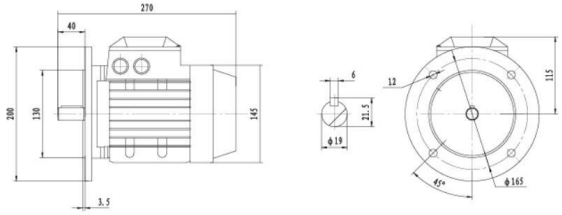

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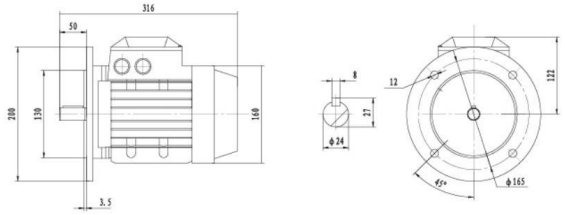

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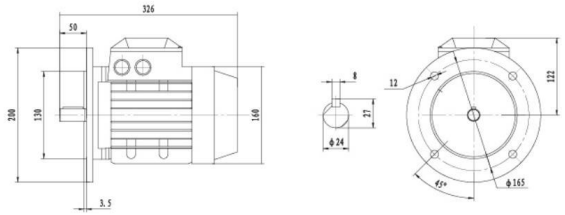

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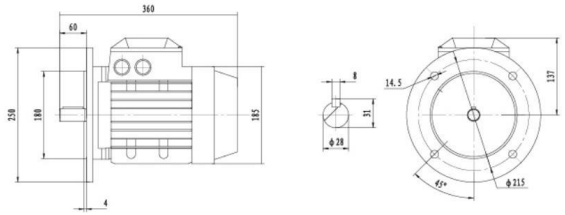

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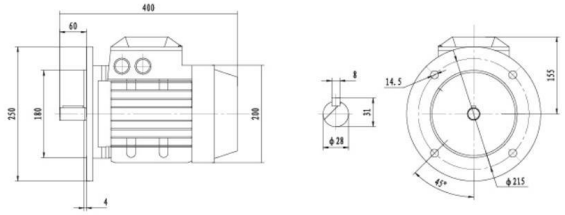

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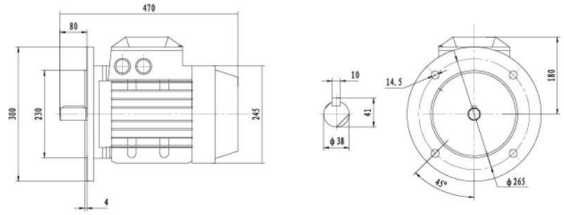

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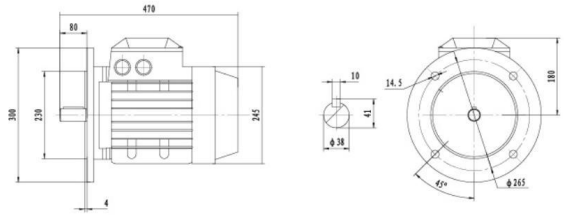

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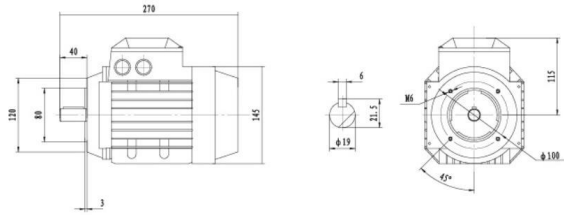

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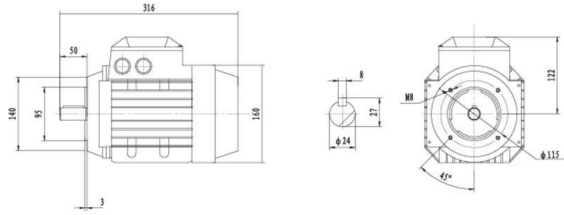

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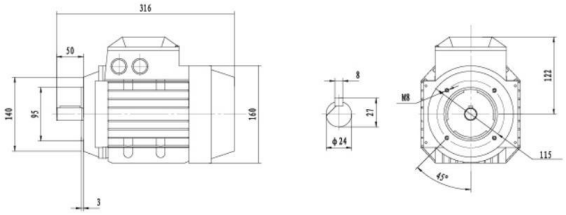

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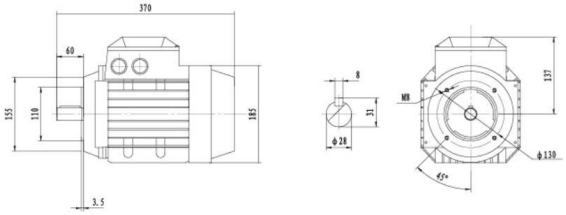

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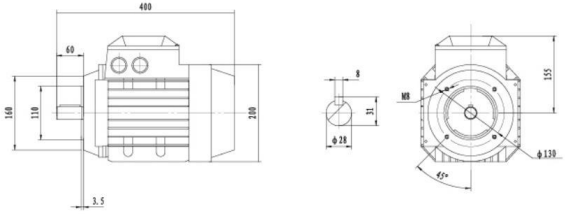

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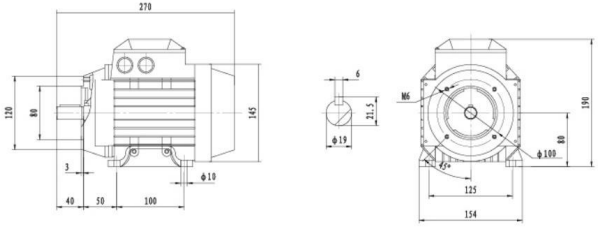

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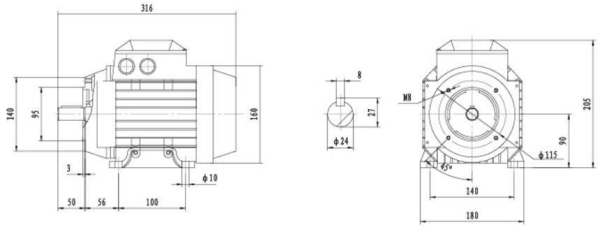

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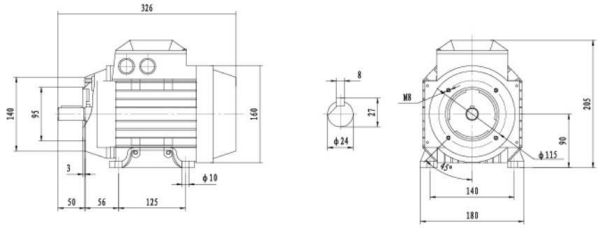

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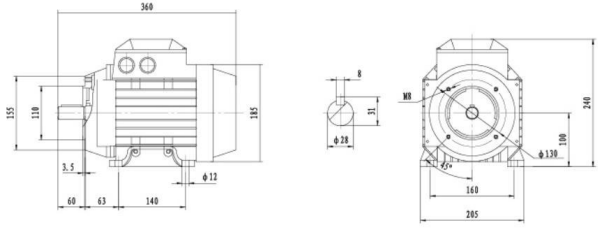

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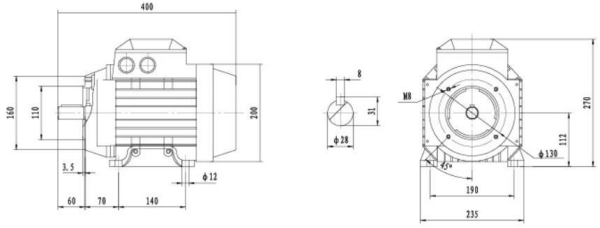

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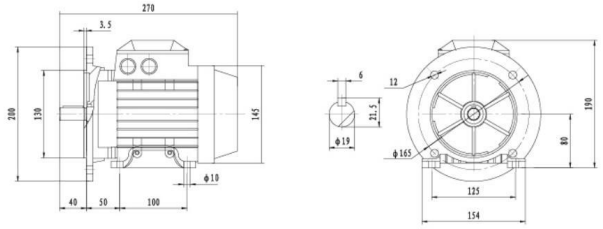
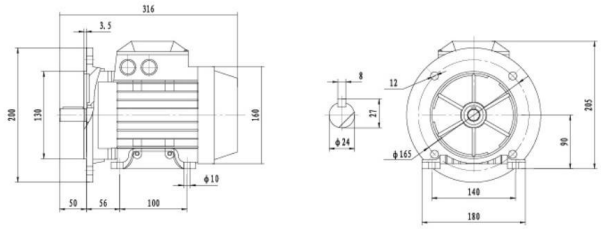


B35 YE2.YE3 90S



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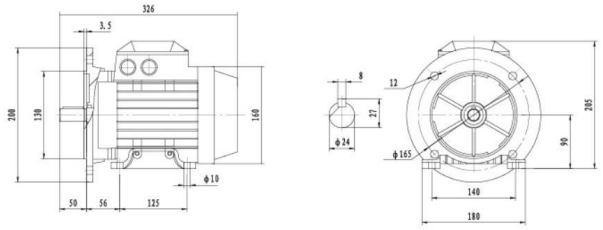

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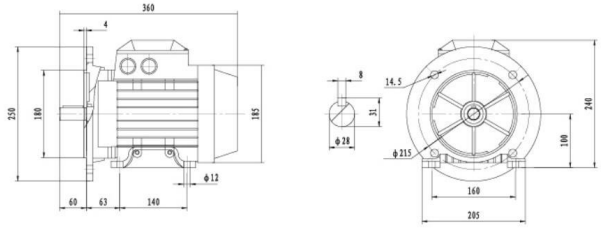
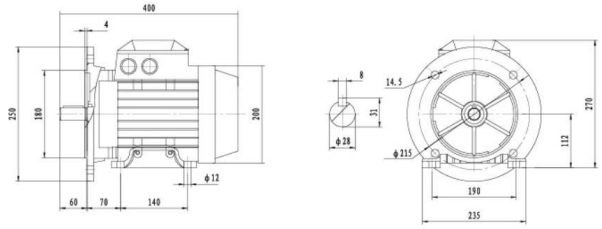
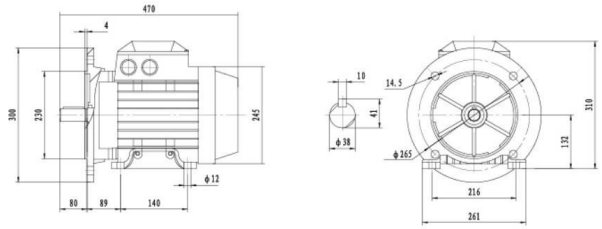


B35 YE2.YE3 112M



B35 YE2.YE3 132S



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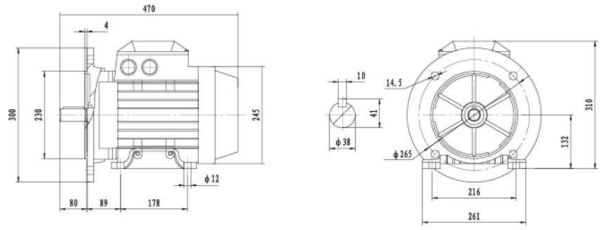
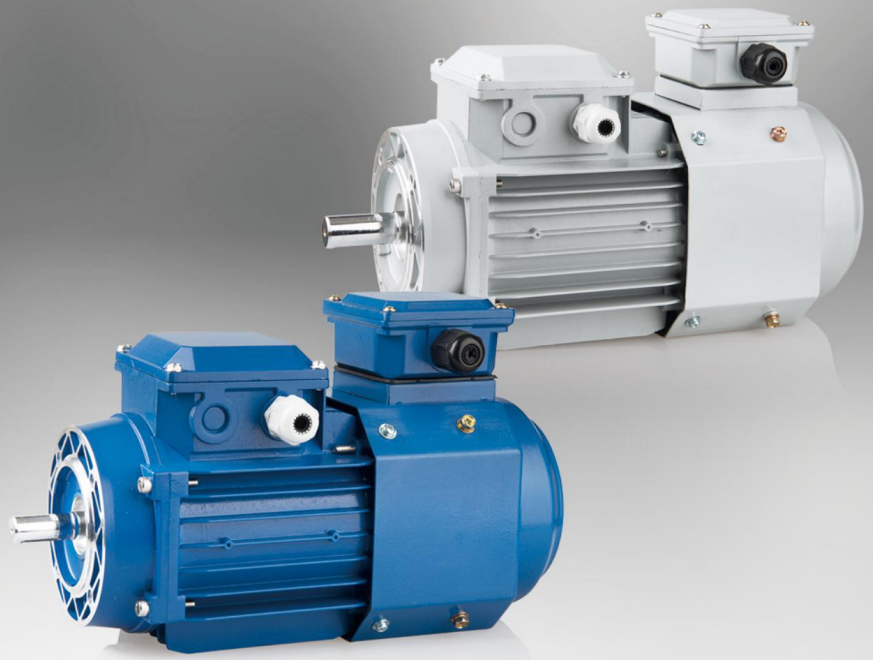


FREQUENCY CONVERSION MOTOR
变频电机

深耕高端制造产业链，驱动中国制造 2025。

Deep plough high-end manufacturing industry chain, driven by MADE IN CHINA 2025.



FREQUENCY CONVERSION MOTOR
变频电机

YVF_2 变频电机代号说明 / YVF_2 FREQUENCY CONVERSION MOTOR CODE DESCRIPTION

YVF_2 – 90 – S – 4 – B5

- B5 — 电机安装方式 /Motor mounting modality
- 4 — 级数 /Number of poles
- S — 铁芯代号 /Core longth number
- 90 — 机座号 /Frame size
- YVF_2 — 系列代码 /Series code

变频电机概述 / BRIEF INTRODUCTION OF VARIABLE FREQUENCY MOTOR

变频调速目前已经成为主流的调速方式，可广泛应用于各行各业无极变速传动。
VF speed has become the popular way,can be widely used in various industries continuously variable transmission.

在变频电机调速控制系统中，采用电力电子变频器作为供电电源，它不可避免的会有高次谐波分量，谐波对电机的影响较大。主要体现在磁路中谐波磁势和电路中的的谐波电流上。不同振幅和频率的电流和磁通谐波将引起电动机定子铜耗转子铝耗。这些损耗使电动机效率。功率因数降低，这些损耗绝大部分转变成热能，引起电动机附加发热，导致电动机温升增加，其温升一般要增加 10-20%。由于采用变频器供电，传导和辐射的电磁干扰，定子绕组中绝缘老化，共模电压导致加速轴承的恶化和泄漏电流，轴承易坏，同时电动机发出尖叫声。由于谐波磁动势与转子谐波电流合成后产生恒定的谐波电磁转矩和振动的谐波电磁转矩。这些转矩会使电动机发出的转矩产生脉动，从而使电动机转速低时发生振动。

In the variable frequency motor speed control system,using power electronic inverter as a power supply it is inevitable that there will be high harmonics, harmonic greater impact on the motor.Mainly reflected in the magnetic circuit and the circuit harmonic magnetic potential harmonic currents. Different amplitudes and frequencies of harmonic currents and magnetic flux will cause the motor stator copper loss rotor aluminum consumption.These losses of the motor efficiency and power factor reduction,the majority of these losses into heat,causing additional heating of the motor,causing the motor temperature increases,the increase in temperature generally 10-20%. As a result of electromagnetic interference power,conduction and radiation,the stator winding insulation aging,resulting in deterioration of the common-mode voltage and leakage current of accelerated bearing,bearing perishable,while the motor screaming,Since harmonic electromagnetic torque constant harmonic electromagnetic torque and vibration harmonic MMFs and rear rotor harmonic current synthesis.The torque of the motor torque will generate pulsating issued,so that the motor speed vibration is low.

通过配置变频器改变三相异步电动机的电压及频率，可使三相电机获得一定范围的无极速度调速。

理论上电压的频率的变化必须保持一定的关系：

当 $f < f_N$: 电机工作于低速区，能获得低于额定转速的各种转速。为保持电机的输出转矩恒定不变，电压必须与频率作同步线性变化，即 $U/f=U_N/f_N$= 常数

当 $f > f_N$: 电机工作于高速区，能获得高于额定转速的各种转速。在高速区电机将作恒功率驱动，且为保持电机过载能力不变，电压与频率须保持 $U/f^{½}=U_N/f_N^{½}$= 常数的变化规律。

Through inverter,we can change the electric voltage and frequency for three phase asynchronous electric motors,which will adjust electric motors speed stepless.

When $f < f_N$:the electric motor operate in low-speed area,and get the various speed will be lower than the rotate speed.to keep the output torque invariable,electric voltage should have synchronous and linear alteration with frequency,that is,$U/f=U_N/f_N$=constant.

When $f > f_N$:electric motor works in high-speed area,the various speed will be faster than the rotate speed.It drive with constant power in the high-speed area,and the change of electric volatage &frequency should obey the rules of $U/f^{½}=U_N/f_N^{½}$=constant.

电机在低频段（$f < f_N$）工作区时，由于工作电压较低，电机定子绕组本身的电压降落将大大影响电机的输出力矩，有时甚至不能带动负载，因此实际应用中往往根据电机定转子漏阻抗（X）与定子电阻（Rs）的比值（Q=X/Rs）提升电机的输入电压以作补偿。必须指出，电机空载时 R_S 上负载电流产生的压降较少，过深的电压补偿有可能导致磁路饱和，使励磁电流达到不允许的数值。由于电动机在低频区工作时，因转速降低而使电动机原有设计的通风系统作用降低，电动机温度上升，因此在电动机后端装有一台单相 220V 或三相 380V 的独立轴流冷却风机，保障电动机在任何转速下得到有效的散热，可实现电动机在高速或低速下长期运作。

电机在高频段（$f > f_N$）工作时，由于电机的工作电压超过额定电压是不允许的，因此在实际使用中，随着频率的提高，电机电压往往不会升高，而维持额定电压 U_N 不变。在高频区工作时，过高的转速将使冷却风扇消耗更多是功率，并且大大增加电机运行噪音 . 因此我们在变频电机设计时采用更优化的数据和绝缘等级的提升。同时在电机后端盖装有一台单相 220V 或三相 380V 的独立轴流冷却风机。

When electric motor work with low frequency ($f < f_N$),due to the lower voltage,the decreased voltage of rotor winding will reducer the output largeiy.Sometimes it even cannot drive the load,Therefore in practical use,we sometimes raise the input voltage according to the ratio(Q=X/Rs)of motor stator rotor leaking impedance(X)and the stator resistance(Rs) as compensation,We must indicate that the voltage of electric motors without load will decrease slightly.Too much increase of voltage compensation will make magnetism route saturated. And the current may be over the allowed value,Since the motor is in a low frequency region, because the motor speed is reduced leaving the original ventilation system designed to reduce the role of the motor temperature rise,so the rear end of the motor with a single-phase 220Vor 380V three-phase individual axial cooling fan,to protect effective cooling of the motor at any speed,the electric motor can run at high speed or low.

When electric motor work in high frequency ($f > f_N$),the work volltage of electric motor is not allowe to over the rated voltage,therefore,in the practical usage,the voltage of electric motor won't rise up with the frequency rising up but keep the rated voltage U_N.When working in high frequency area,high speed will make cooling fans consume more power,and greatly increase the motor running noise,So we in the design of the frequency conversion motor using data from a column optimization and upgrading insulation class,At the same time on the bake cover is equipped with a single-phase 220V or 380V three-phase independent axial flow fan cooling.

本公司生产的 YS、IE2、IE3 系列通用三相异步电动机在设计上，我们主要考虑的是电动机的过载能力，起动性能、效率和功率因数。另外主要考虑电动机对非正弦电源的适应能力，抑制电流中的高次谐波对电动机的影响。由于电动机在低频区工作时温升的升高，绝缘等级采用 F 级以上，采用高分子绝缘材料及真空压力浸漆工艺，以及采用特殊的绝缘结构。为了降低电磁转矩的脉动，提高机械零部件的加工精度，提高平恒质量，采用高精度静音轴承。为了消除电机振动，对电动机整体结构进行了加强设计。

The company produces YS,IE2,IE3 Series Universal three-phase asynchronous motor design,our main consideration is the motor overload,starting performance,efficiency and power factor. Another major consideration for non-sinusoidal motor power adaptability. Suppress the influence of higher harmonic current to the motor.Since the motor is increased when the working temperature of the low-frequency region,class F insulation class above,the use of polymer insulation materials and vacuum pressure impregnation process,and the use of special insulation structure,In order to reduce the electromagnetic torque ripple,improve the precision mechanical parts to improve the quality level constant,high-precision bearing mute.In order to eliminate vibration motor,the motor structure to strengthen the overall design.

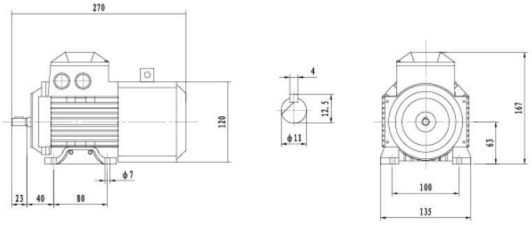
我公司生产的 YVF2 三相变频电动机可配制动器，也可配编码器，实现低速无极调速控制，YVF2 三相变频电动机通用性好，其安装尺寸符合 IEC 标准，与一般标准型电动机具有互换性。

I produced YVF2 brakes can be equipped with three-phase inverter motor can also be equipped with an encoder to achieve low stepless speed control.With the IEC standard flange Installation dimensions, YVF2 three-phase inverter motor keep the good universal,and it can be interchanged with general standard motor.

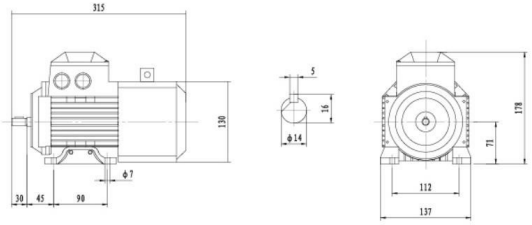
YVF_2 系列技术参数 / YVF_2 SERIES TECHNICAL PARAMETERS

型号 TYPE	额定功率 RATED OUTPUT	额定转速 RATED SPEED	效率 EFF I CENCY	功率因数 POWER FOCTOR	额定电流 RATED CURRENT	额定转矩 RATED TORQUE	堵转转矩 LOCKED ROTOR TORQUE	最大转矩 MAXIMUM TORQUE	变频风机 FREQUENCY CONVESION BLOWER		
							额定转矩 RATED TO RQUE	额定转矩 RATED TO RQUE	电压 VPL TAGE		转速 SPEED
	Kw	r pm	η %	COSΦ	A	Nm	Ts/Tn	Tmax/Tn	三相 THREE PHASE	单相 SINGLE PHASE	r pm
1500r/min 380V 50Hz											
YVF_2-631-4	0.12	1360	57.0	0.72	0.44	0.84	2.2	2.0	380	220	2800
YVF_2-632-4	0.18	1360	60.0	0.73	0.62	1.26	2.2	2.0	380	220	2800
YVF_2-711-4	0.25	1375	65.0	0.74	0.79	1.74	2.2	2.0	380	220	2800
YVF_2-712-4	0.37	1375	67.0	0.75	1.12	2.57	2.2	2.0	380	220	2800
YVF_2-801-4	0.55	1405	71.0	0.75	1.57	3.74	2.2	2.4	380	220	2800
YVF_2-802-4	0.75	1405	73.0	0.77	2.02	5.10	2.2	2.4	380	220	2800
YVF_2-90S-4	1.1	1445	75.0	0.79	2.82	7.27	2.2	2.3	380	220	2800
YVF_2-90L-4	1.5	1445	78.0	0.79	3.70	9.91	2.2	2.3	380	220	2800
YVF_2-100L1-4	2.2	1440	80.0	0.81	5.16	14.60	2.2	2.3	380	220	2800
YVF_2-100L2-4	3	1440	82.0	0.82	6.78	19.90	2.2	2.3	380	220	2800
YVF_2-112M-4	4	1440	84.0	0.82	8.82	26.50	2.2	2.3	380	220	2800
YVF_2-132S1-4	5.5	1440	85.0	0.84	11.7	36.50	2.2	2.3	380	220	2800
YVF_2-132S2-4	7.5	1440	87.0	0.84	15.6	49.7	2.2	2.3	380	220	2800
YVF_2-160M-4	11	1450	88.0	0.85	21.3	72.4	2.2	2.2	380	220	2800
YVF_2-160L-4	15	1450	89.0	0.85	30.1	98.8	2.2	2.2	380	220	2800
YVF_2-180M-4	18.5	1455	90.5	0.86	36.5	121.4	2.2	2.2	380	220	2800
YVF_2-180L-4	22	1455	91.0	0.86	43.1	144.4	2.0	2.2	380	220	2800
1000r/min 380V 50Hz											
YVF_2-711-6	0.18	900	58.0	0.66	0.71	1.91	1.9	2.0	380	220	2800
YVF_2-712-6	0.25	900	59.0	0.68	0.95	2.65	1.9	2.0	380	220	2800
YVF_2-801-6	0.37	910	62.0	0.7	1.30	3.88	1.9	2.0	380	220	2800
YVF_2-802-6	0.55	910	65.0	0.72	1.79	5.77	1.9	2.1	380	220	2800
YVF_2-90S-6	0.75	930	70.0	0.72	2.26	7.70	2.1	2.1	380	220	2800
YVF_2-90L-6	1.1	940	73.0	0.73	3.14	11.2	2.1	2.1	380	220	2800
YVF_2-100L-6	1.5	940	76.0	0.76	3.95	15.2	2.2	2.1	380	220	2800
YVF_2-112M-6	2.2	960	79.0	0.76	5.57	21.9	2.2	2.1	380	220	2800
YVF_2-132S-6	3	960	81.0	0.76	7.40	29.8	2.2	2.1	380	220	2800
YVF_2-132M1-6	4	960	83.0	0.76	9.63	39.8	2.2	2.1	380	220	2800
YVF_2-132M2-6	5.5	960	84.0	0.77	12.9	54.7	2.2	2.1	380	220	2800
YVF_2-160M-6	7.5	970	86.0	0.78	17	73.8	1.8	2.1	380	220	2800
YVF_2-160L-6	11	970	87.0	0.79	24.3	108.3	1.9	2.1	380	220	2800
YVF_2-180L-6	15	970	89.0	0.81	31.6	147.7	2.1	2.1	380	220	2800

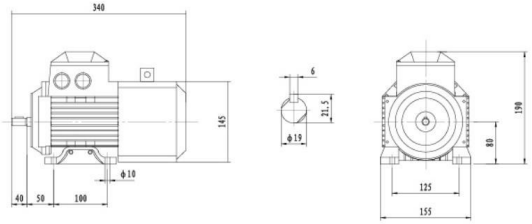
B3 YVF$_2$ 63



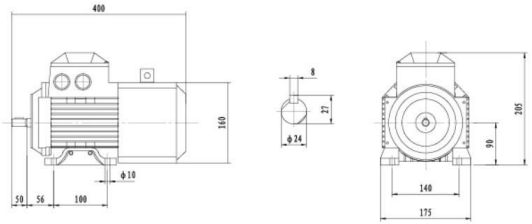
B3 YVF$_2$ 71



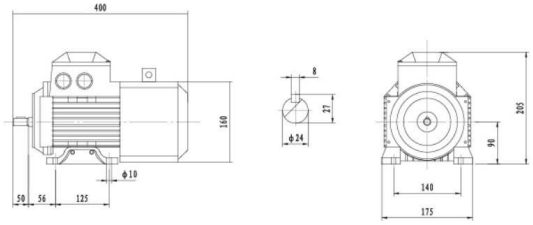
B3 YVF$_2$ 80



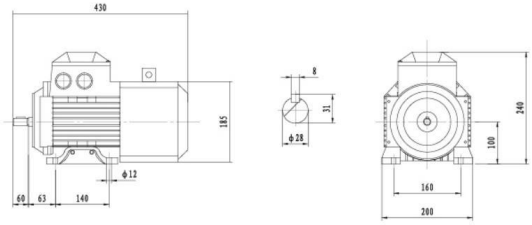
B3 YVF$_2$ 90S



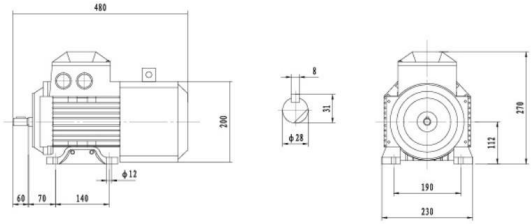
B3 YVF$_2$ 90L



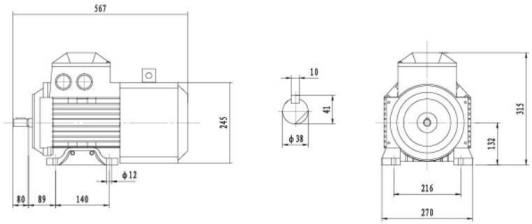
B3 YVF$_2$ 100L



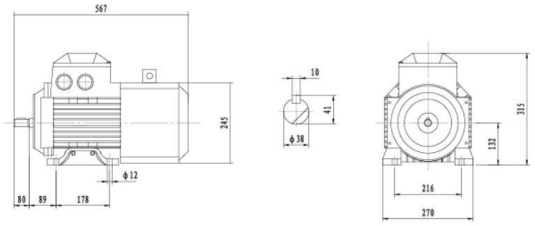
B3 YVF$_2$ 112M



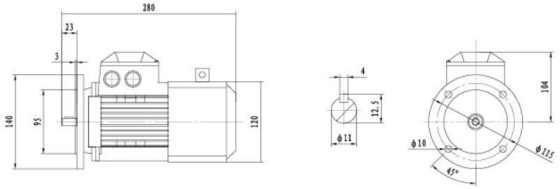
B3 YVF$_2$ 132S



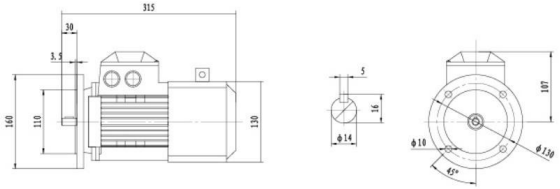
B3 YVF$_2$ 132M



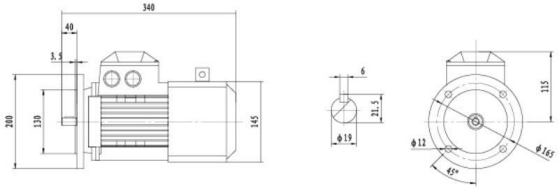
B5 YVF$_2$ 63



B5 YVF$_2$ 71



B5 YVF$_2$ 80M



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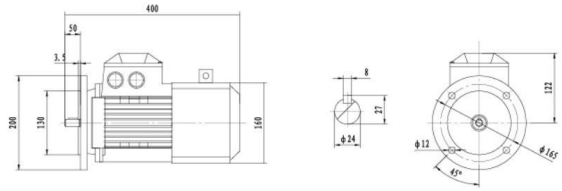
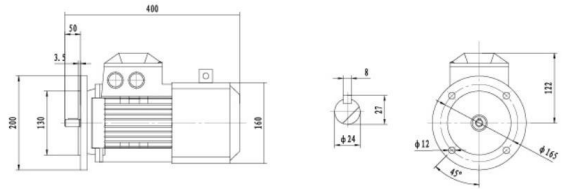
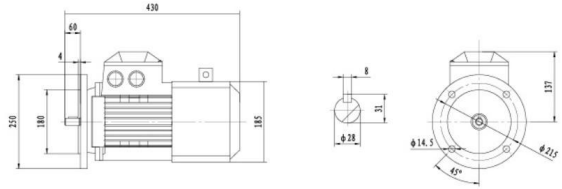


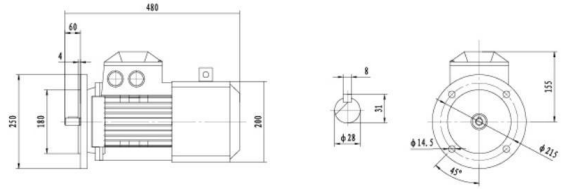
B5 YVF$_2$ 90L



B5 YVF$_2$ 100L



B5 YVF$_2$ 112M



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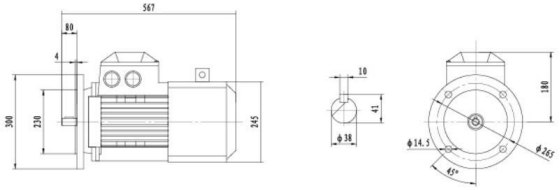

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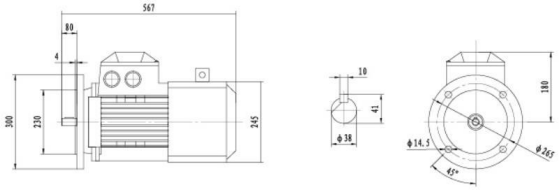
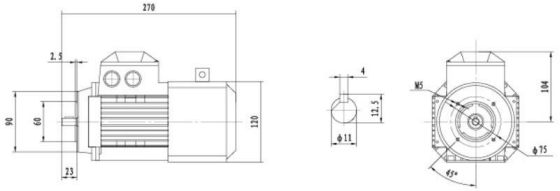
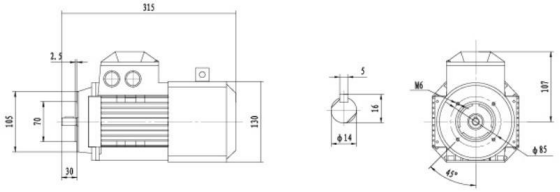


B14 YVF$_2$ 63



B14 YVF$_2$ 71



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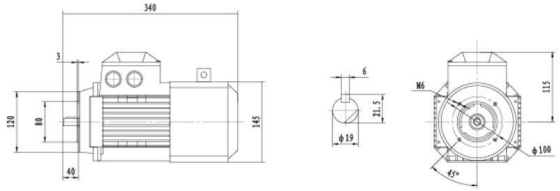
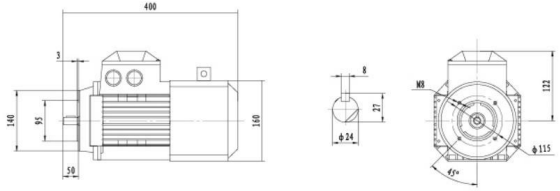


B14 YVF$_2$ 90S



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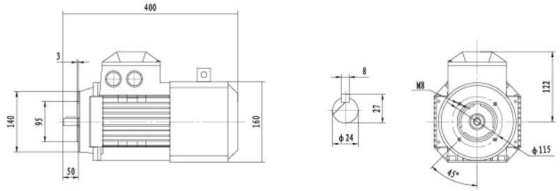

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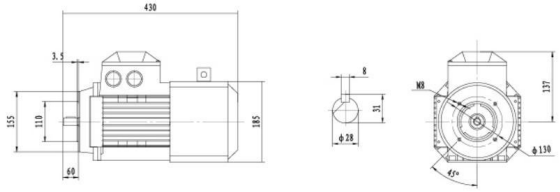

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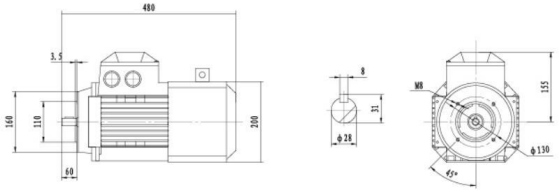
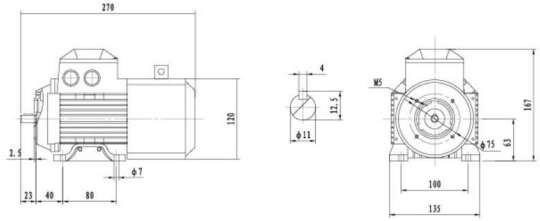
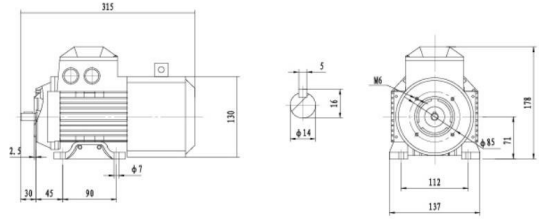


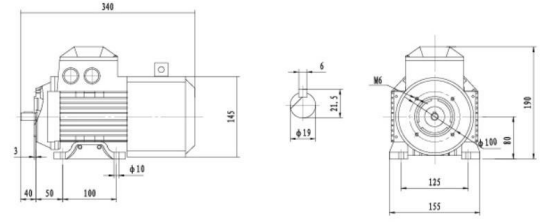
B34 YVF_2 63



B34 YVF_2 71



B34 YVF_2 80



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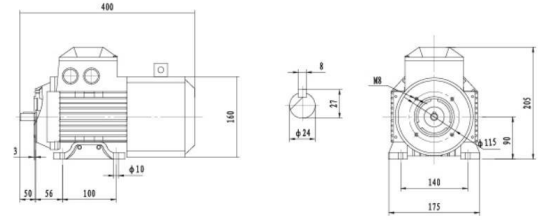

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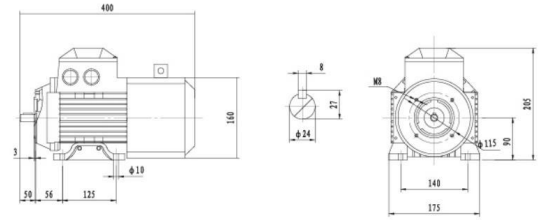

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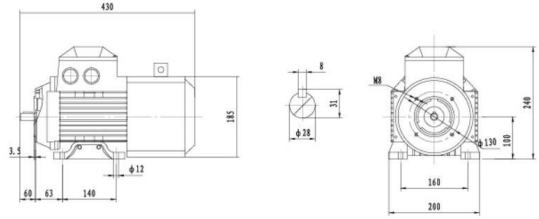
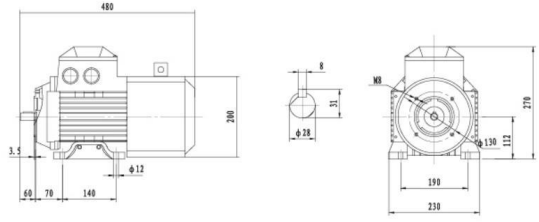


B34 YVF_2 112M



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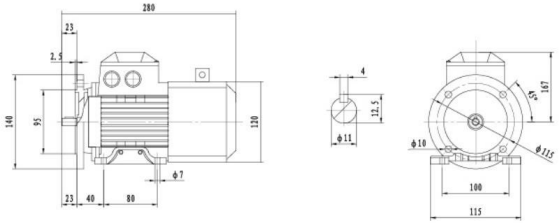
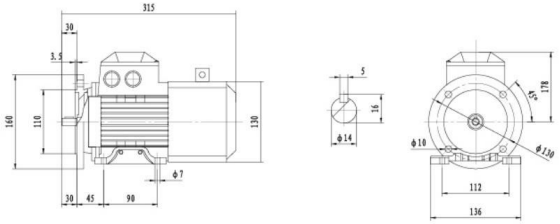


B35 YVF$_2$ 71



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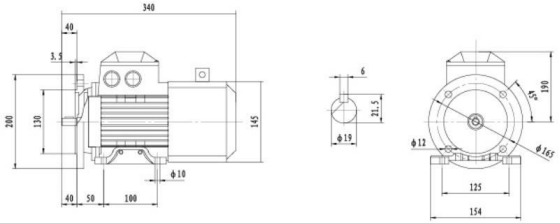

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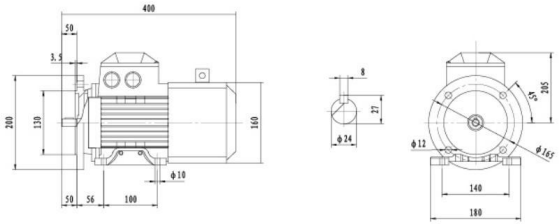

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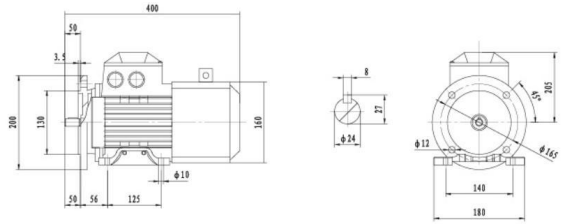

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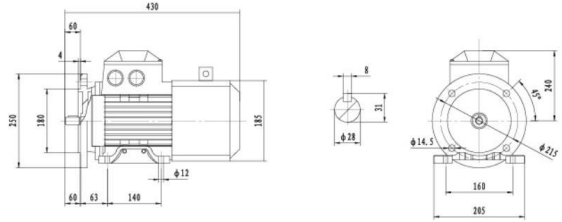

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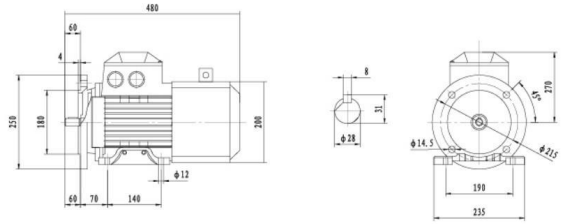
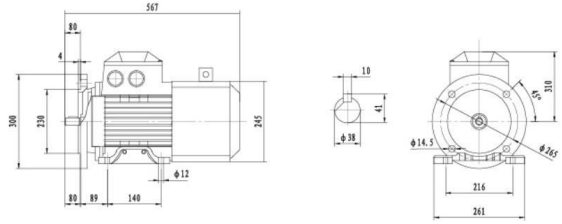
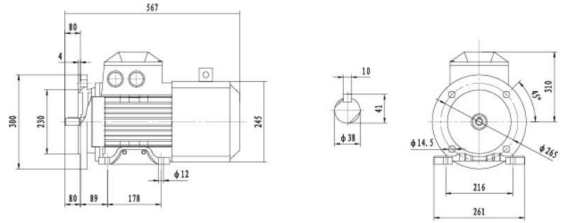


B35 YVF$_2$ 132S



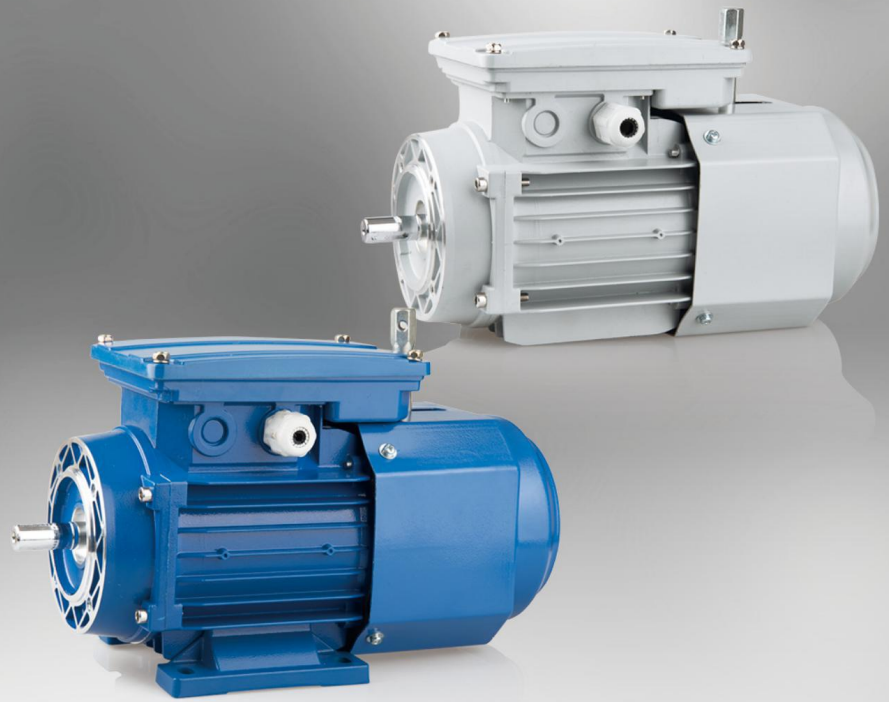
B35 YVF$_2$ 132M



BRAKE MOTOR
刹车电机

深耕高端制造产业链，驱动中国制造 2025。

Deep plough high-end manufacturing industry chain, driven by MADE IN CHINA 2025.



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YEJ 制动电机代号说明 / YEJ BARKE MOTOR CODE DESCRIPTION

YEJ – 80M – 2 – 4 – B5

- B5 — 电机安装方式 /Motor mounting modality
- 4 — 级数 /Number of poles
- 2 — 铁芯代号 /Core longth number
- 80M — 机座号 /Frame size
- YEJ — 系列代码 /Series code

制动电机概述 / BRIEF INTRODUCTION OF BARKE MOTOR

制动电机是由三相异步电动机和制动器两部份组成，是三相异步电动机的派生系列。制动器分为手动释放和螺栓释放两种形式。制动器是制动电机的主要部件，其工作电源分为两类：一类是交流制动，另一类是直流制动。目前我公司生产的制动均为直流制动电动，其优点是制动力矩大、安装调试方便、制动响应速度快、可靠性高、通用性强等优点。

Brake motor is made of two parts consisting of three-phase asynchronous motors and brakes,its belongs to three-phase asynchronous motor derived series.Manual brake release and bolt release are two forms of brakes.Brakes are the main components of the brake motor .Its working power divided into two categories; One is AC brake,the other is DC braking,my company produces brake motors are DC brake motors,the advantage of the braking torque is below ,Easy installation, braking response speed, high reliability,versatility and other advantages.

YEJ 制动电机工作原理 / OPERATING PRINCIPLE

在电机的后端盖装有一个石棉耐磨材料的摩擦盘和励磁线圈。当电机失电后摩擦盘被制动器弹簧通过一块压紧板，紧紧地压在电机后端盖已加工的平面上，从而使制动盘产生强大的摩擦力矩，达到制动的目的。当励磁线圈通电后产生电磁吸力，将弹簧压紧板吸合，压紧板离开摩擦盘。使摩擦盘释放，电动机灵活转动，根据电动机功率不同，线圈电阻在几十至几百欧之间。

After the motor is equipped with a cover asbestos friction disc wear-resistant materials and excitation coil.When the motor is energized by a spring brake friction disc is a pressing plate,pressing firmly on the plane after the motor cover has been processed,so that the brake disc friction torque generated strong achieve braking purposes.When the excitation coil is energized to produce electromagnetic suction, pull the spring-loadedplate,pressed board leave the friction plate.The friction disc is released,the ,motor flexible rotation,depending on the motor power between tens to hundreds of European coil resistance.

YEJ 制动电机工作原理 / OPERATING PRINCIPLE

二、直流制动器不能直接接在交流电源上，在制动吸盘上装有绕组线圈，绕组的额定电压为低压直流电压。工作时必须由单相交流电源经整流后提供给吸盘绕组，因此制动电机接线盒内同时装有整流器，接线方法在第 25 页图 5。

The DC brake can not be directly connected to the AC power to the brake coil is provided with suction cups for low-voltage winding rated DC voltage.A single-phase AC power is rectified then supply to a sucker winding to make it work,so the brake motor terminal box fitted with a rectifier,wiring diagram below.

制动时间 / THE BRAKING TIME

制动电机的制动时间(t)是从电机和制动器停止供电瞬间开始到轴完全停止时所有用的时间，一般情况下，63-80 机座号的电机其制动时间为 0.5 秒钟，90-132 机座号的电机其制动时间为 1 秒钟，160-180 机座号的电机其制动时间为 2 秒。

Brake motor braking time(t)is the time from the motor and brake stopping the power to the shaft completely stopped,under normal circumstances,For 63 to 80 frame size motor,the braking time is 0.5 seconds,For 90-132 frame size motor,the braking time is 1 second,For 160 to 180 frame size motor,the braking time is 2 seconds.

制动电机的调整与维修 / ADJUSTMENT AND MAINTENANCE

在制动电机使用过程中随着制动次数的增加，摩擦盘会有摩损情况存在，因此摩擦盘与电机后盖的间隙也随之增大。对长期运转的电机，间隙的改变直接影响电机的制动力矩。

间隙在调整时不能过小，间隙过小，摩擦盘与电机后盖摩擦平面不能完全分离而烧毁电机，间隙过大，压紧板不能吸合或吸合过程中产生强烈的噪声。制动压紧板与电磁吸盘的间隙按制动器而定，一般 63-112 机座号的电机其制动器间隙在 0.25mm-0.30mm,132-180 机座号的电机制动器间隙在 0.50mm-0.80mm。

In the course of braking the motor increases the number of brake friction disc wear condition will exist,so a gap of the motor cover plate of the friction increases.Changes to the long-term operation of the motor,the motor directly affects the gap between the braking torque. When adjusting the gap is not too small, the gap is too small, the friction disc friction with the motor cover can not be completely separated from the plane and burned the motor,the gap is too large,pressed board can not pull or pull a strong noise process.Brake pressing plate at the gap magnechuck brakes, generally for 63 to112 frame size motor,the brake gap between0.25mm to 0.30mm , for132-180frame size motor,the brake gap between0.50mm to 0.80mm.

制动电机的变频运行/ THE INVERTER RUNS THE MOTOR BRAKE

随着社会生产率的不断发展和科学技术的不断提升。制动加变频方式在执行机构中得到了广泛的应用。我公司生产的所有异步电动机都能配置变频器运行。此时，制动器必须单独提供稳定的工作电源，不能与电动机上的电源接线端子并接共用。否则制动器无法正常工作。需要提出的是：制动器电机配变频操作时，要附加一个轴流风扇，此风扇也只能独立控制和供电。

值得注意的是，我公司生产的所有异步电动机最高频率范围在 60Hz，如用户有特殊要求可向公司提出。

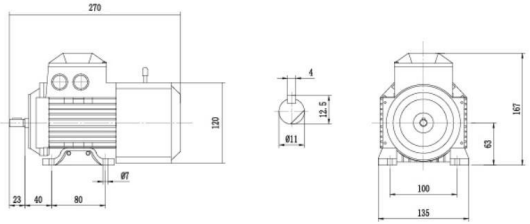
With the continuous improvement and continuous development of the social productivity of science and technology.Brake plus inverter system has been widely applied in the implementation of the organization.I produced all asynchronous motors can configure the drive to run.At this point the brake must be provided separately stable power supply,and then can not be shared with the power terminals on the motor.Otherwise the brakes do not work properly.Need to make is brake motors with variable frequency operation,an axial flow fan to attach this fan only independent control and power.

Notably,the company produces all kinds of asynchronous motor in the highest frequency range 60Hz,as you may have special requirements please let us know.

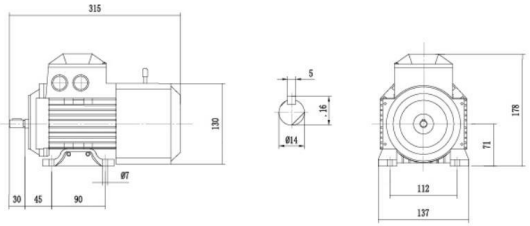
YEJ 系列技术参数 / YEJ SERIES TECHNICAL PARAMETERS

型号 TYPE	额定功率 RATED OUTPUT	额定转速 RATED SPEED	效率 EFF I CENCY	功率因数 POWER FOCTOR	额定电流 RATED CURRENT	额定转矩 RATED TORQUE	堵转转矩 LOCKED ROTOR TORQUE	最大转矩 MAXIMUM TORQUE	静制动力矩 STATIC BRAKR TORQUE NM 直流 DC	空载制动时间 BRAKE TORQUEDURING IDIE s
							额定转矩 RATED TO RQUE	额定转矩 RATED TO RQUE		
	Kw	r pm	η %	COSΦ	A	Nm	Ts/Tn	Tmax/Tn		
1500r/min 380V 50Hz										
YEJ-631-4	0.12	1360	57.0	0.72	0.44	0.84	2.2	2.0	3.5	0.10
YEJ-632-4	0.18	1360	60.0	0.73	0.62	1.26	2.2	2.0	3.5	0.10
YEJ-711-4	0.25	1375	65.0	0.74	0.79	1.74	2.2	2.0	4.0	0.10
YEJ-712-4	0.37	1375	67.0	0.75	1.12	2.57	2.2	2.0	4.0	0.10
YEJ-801-4	0.55	1405	71.0	0.75	1.57	3.74	2.2	2.4	7.5	0.10
YEJ-802-4	0.75	1405	73.0	0.76	2.02	5.10	2.2	2.4	7.5	0.10
YEJ-90S-4	1.1	1445	75.0	0.77	2.82	7.27	2.2	2.3	15	0.15
YEJ-90L-4	1.5	1445	78.0	0.79	3.70	9.91	2.2	2.3	15	0.15
YEJ-100L1-4	2.2	1440	80.0	0.81	5.16	14.60	2.2	2.3	30	0.15
YEJ-100L2-4	3	1440	82.0	0.82	6.78	19.90	2.2	2.3	30	0.15
YEJ-112M-4	4	1440	84.0	0.82	8.82	26.50	2.2	2.3	40	0.15
YEJ-132S1-4	5.5	1440	85.0	0.83	11.7	36.50	2.2	2.3	80	0.15
YEJ-132S2-4	7.5	1440	87.0	0.84	15.6	49.7	2.2	2.3	80	0.15
YEJ-160M1-4	11	1450	88.0	0.85	21.3	72.4	2.2	2.2	150	0.30
YEJ-160M2-4	15	1450	89.0	0.85	30.1	98.8	2.2	2.2	150	0.30
YEJ-180M-4	18.5	1455	90.5	0.86	36.5	121.4	2.2	2.2	150	0.30
YEJ-180L-4	22	1455	91.0	0.86	43.1	144.4	2.0	2.2	200	0.30
1000r/min 380V 50Hz										
YEJ-711-6	0.18	900	56.0	0.66	0.71	1.91	1.9	2.0	4.0	0.10
YEJ-712-6	0.25	900	59.0	0.68	0.95	2.65	1.9	2.0	4.0	0.10
YEJ-801-6	0.37	910	62.0	0.70	1.30	3.88	1.9	2.0	7.5	0.10
YEJ-802-6	0.55	910	65.0	0.72	1.79	5.77	1.9	2.1	7.5	0.10
YEJ-90S-6	0.75	930	69.0	0.72	2.26	7.7	2.1	2.1	15	0.15
YEJ-90L-6	1.1	940	72.0	0.73	3.14	11.2	2.1	2.1	15	0.15
YEJ-100L-6	1.5	940	76.0	0.76	3.95	15.2	2.2	2.1	30	0.15
YEJ-112M-6	2.2	960	79.0	0.76	5.57	21.9	2.2	2.1	40	0.15
YEJ-132S-6	3	960	81.0	0.76	7.40	29.8	2.2	2.1	80	0.15
YEJ-132M1-6	4	960	82.0	0.76	9.63	39.8	2.2	2.1	80	0.15
YEJ-132M2-6	5.5	960	84.0	0.77	12.9	54.7	2.2	2.1	150	0.30
YEJ-160M-6	7.5	970	86.0	0.77	17.0	73.8	1.8	2.1	150	0.30
YEJ-160L-6	11	970	87.5	0.78	24.3	108.3	1.9	2.1	150	0.30
YEJ-180L-6	15	970	89.0	0.81	31.6	147.7	2.1	2.1	200	0.30

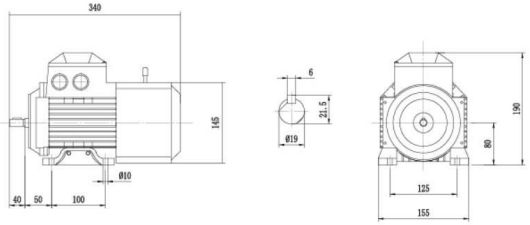
B3 YEJ 63



B3 YEJ 71



B3 YEJ 80M



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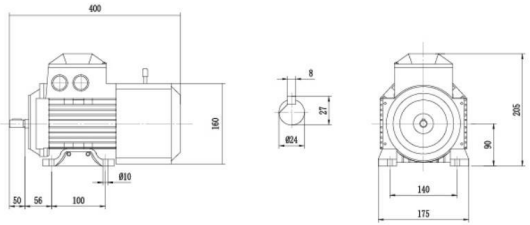

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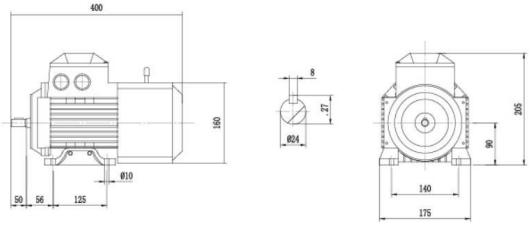

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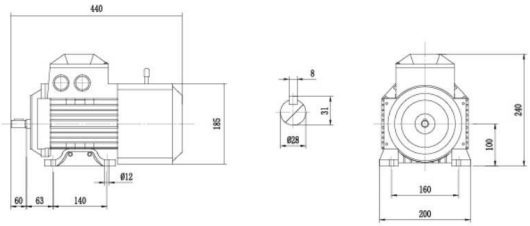

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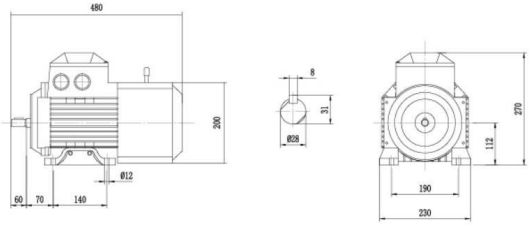

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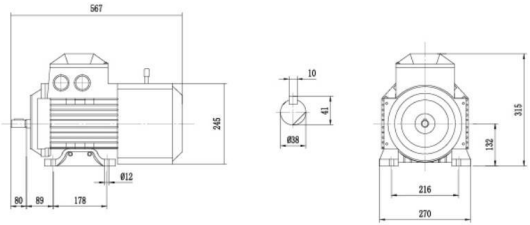
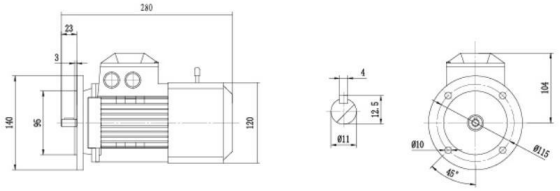


B5 YEJ 63



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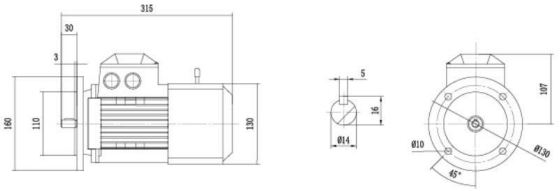

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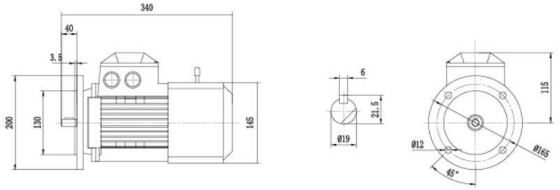

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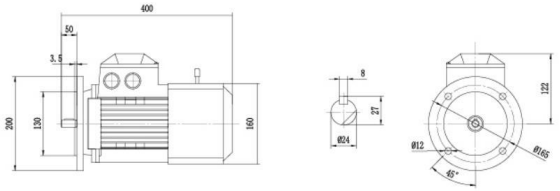

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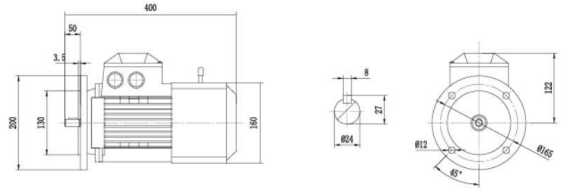

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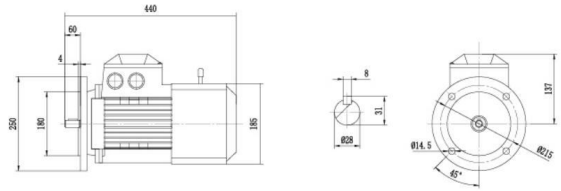

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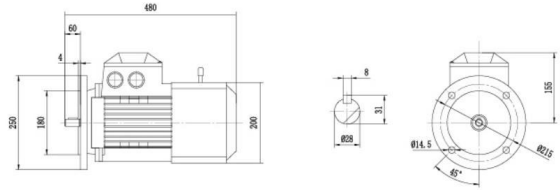

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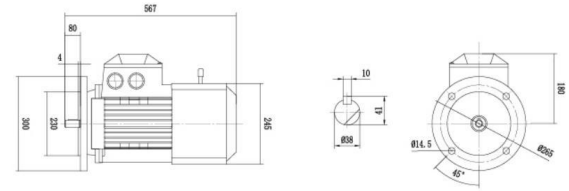

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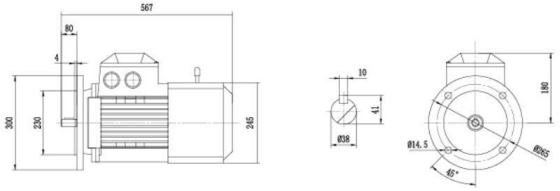

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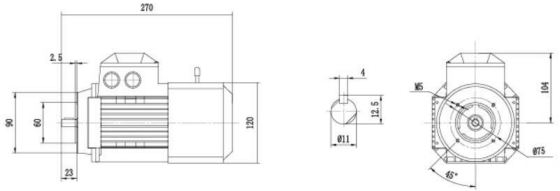

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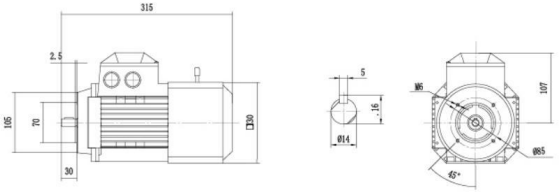

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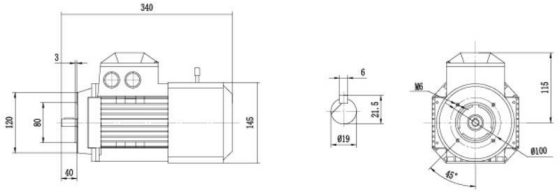

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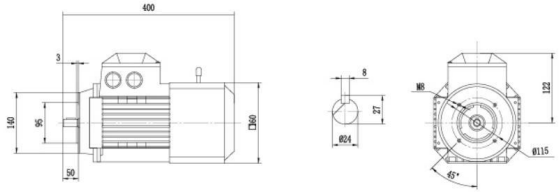

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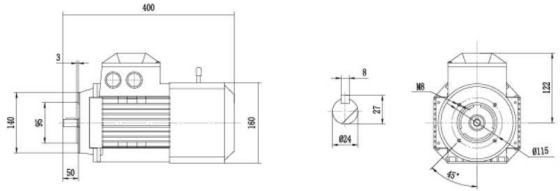

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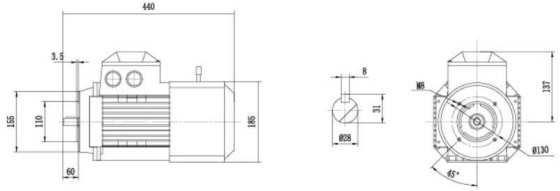

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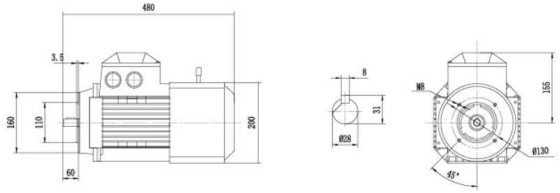

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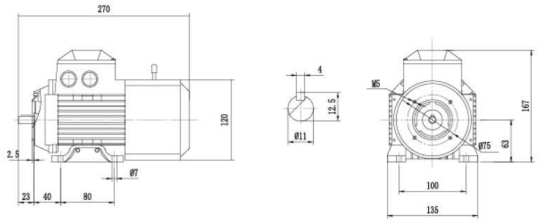

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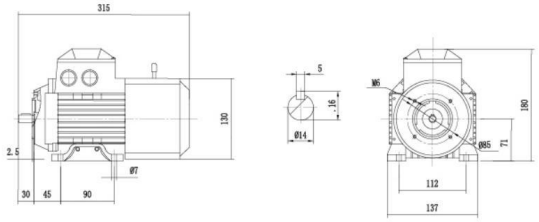

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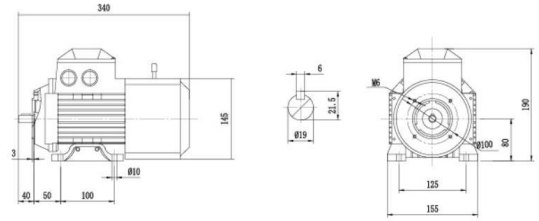

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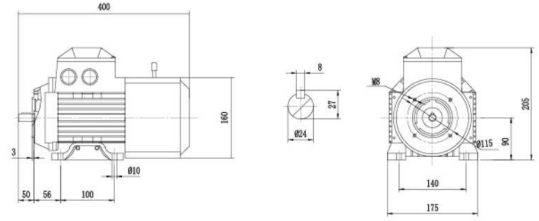

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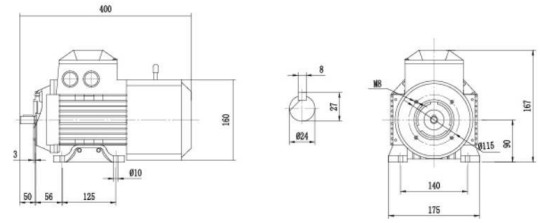

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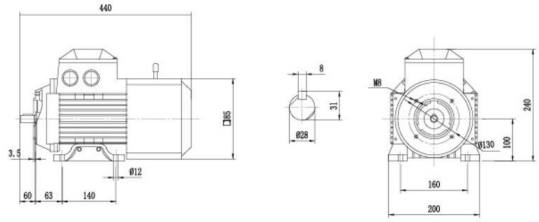

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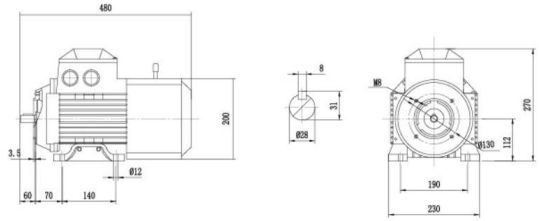

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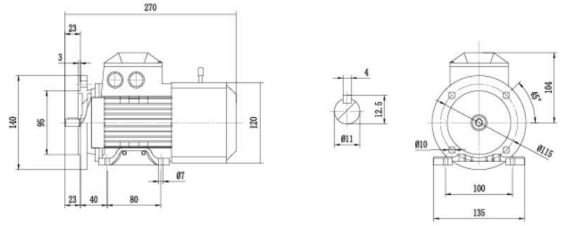

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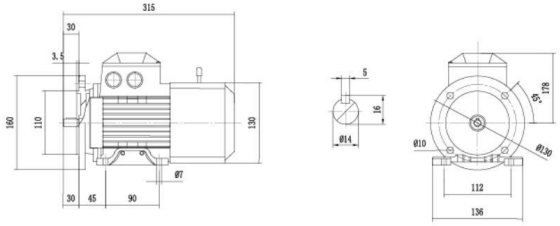

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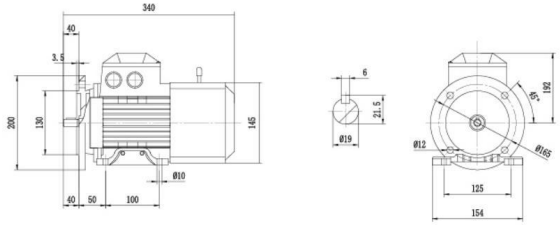

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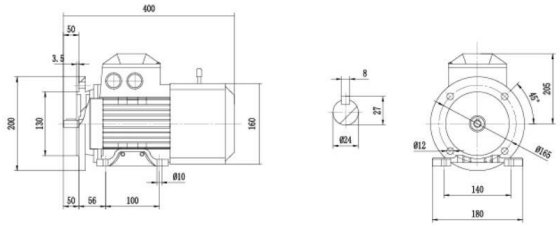

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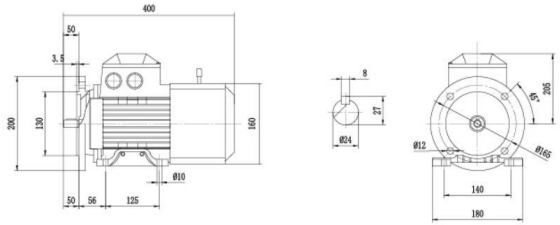

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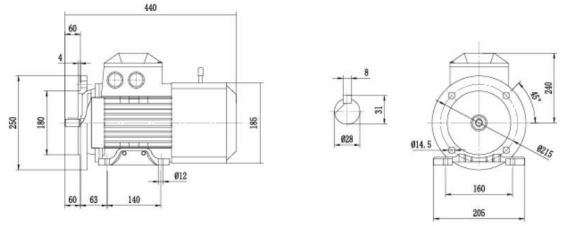

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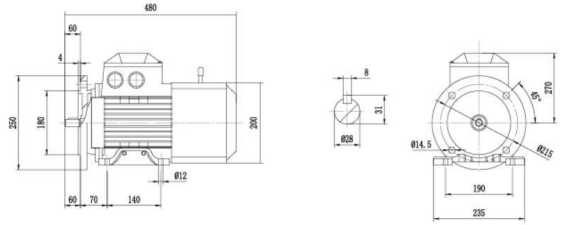

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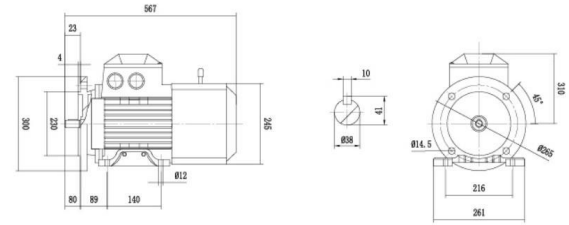

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