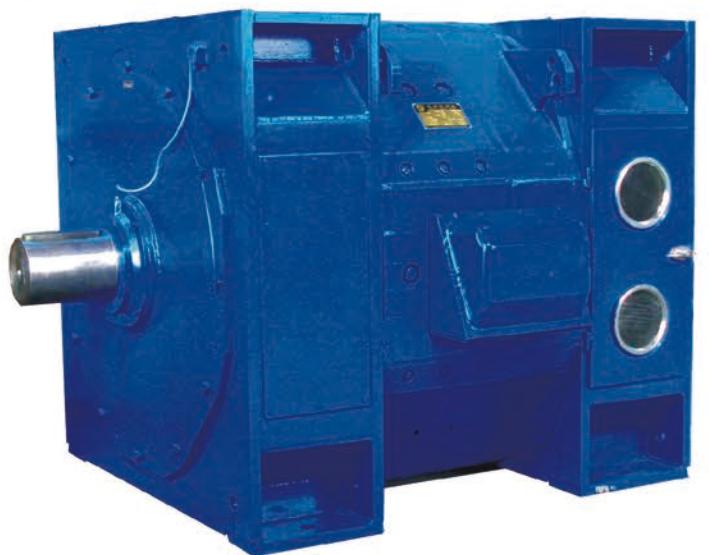


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杭州新恒力电机制造有限公司
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» Z系列中型直流电机
Z Serics Medium Size DC Motors

» 今天要比昨天做得更好

型号说明

Type description

Z XXX--X X

产品系列代号Z系列直流电动机

Code for product series

Z series DC electric machines

电机中心高，以毫米表示

Shaft center height of motors in mm

电机类别代号，用字母A、B分别代表第一类和第二类电机。

Code no for the motors' classification, letter 'A' refers to the first type motors and 'B' refers to the second type motors

底脚孔轴间距离代号(B尺寸)，由短至长用数字1、2、3、……表示。

Code no for the distance between the anchor bolt (B dimension) expressed in ordinal Arabic numbers distance from short to long.

d. 本系列电动机的防护等级和冷却方法见下表：

Following list shows the protection and cooling types of this series motors:

冷却方法 Cooling type	IC06 带鼓风机 with blower	IC17 半管道通风 duct ventilation at one end	IC37 管道通风 duct ventilation at both end	ICW37A86 带背包式冷却器 (空-水冷却) with top mounted cooler (water to air)
图示 Diagram				
防护等级 Protection grade	IP23防滴型 能防止直径大于12毫米的固体异物和与垂直线成60°角的滴水进入电机 drip proof Preventing any solid foreign matter with more than 12 mm dia. and drip within an angle of 60 degrees with right angle from dropping into the motors	IP44防溅型 能防止直径大于1毫米的固体异物和任何方向的溅水进入电机 splash proof Preventing any solid foreign matter with more than 1 mm dia. and drip of any directions from dropping into the motors		

结构特征

Structure character

a. 本系列电动机的机座采用薄板多边形叠片结构，具有体积小，重量轻等优点。适用于可控硅整流电源，在负载电流的迅速变化下，电动机有良好的换向性能。整个定子和转子采用无溶剂漆真空压力浸漆处理(VPI)，使绕组具有良好的抗潮能力和机械强度，并且绝缘和导热性能良好。电枢铁芯由硅钢片叠装而成，具有良好的导磁性能。本系列电动机全部采用滚动轴承，不停机加油结构。本系列电动机的绝缘等级为H级。

b. 本系列电动机的安装型式符合GB997和IEC34-7《电机结构及安装型式代号》。

标准IM1001
Standard IM1001



可派生IM 1002
Derivation IM 1002



端盖式轴承，底脚安装，圆柱形单轴伸
bracket bearing, foot mounting with one cylindric shaft extension.

端盖式轴承，底脚安装，圆柱形双轴伸
bracket bearing, foot mounting with two cylindric shaft extension.

c. 本系列电动机的防护等级根据GB4942.1和IEC34-5《电机外壳防护分级》标准，外壳防护等级有IP23和IP44两种。电动机冷却方法根据GB1993和IEC34-6《电机冷却方法》标准有IC06、IC17、IC37和ICW37A86四种。用户如需其他防护等级和冷却方法可另行协商。本系列电动机标准型式的冷却空气入口在电机的传动端(非换向器端)。

c. IP 23 and IP44 is adopted for the motors protection of this series, which conform to the standard of Classification of Degrees of Protection Provided by Enclosures for Rotating Machines specified in GB 4942-1 and IEC 34-5. IC06, IC17, IC37 and ICW37A86 is adopted for the cooling of this series motors, which conform to the standard of Methods of Cooling Rotating Machinery specified in GB 1993 and IEC34-6. Other types of protection and cooling required by customers can be negotiated. The standard cooling air outlet locates on the side of driving end,(non commutator end).

电机性能

1. 本系列电动机的定额为连续工作方式(S1)。
2. 本系列电动机的标准额定电压有220V、330V、440V、550V、660V、750V、六种，也可派生出其他等级的电压，需在订货时商定。
3. 本系列电动机的基本励磁方式为他励，励磁绕组有四个引线端子，分为两组，其他励磁电压等级可在订货时商定。
本系列电动机允许强行励磁，强励电压不得超过500V。强励时，励磁电流可瞬时略超过额定励磁电流，但励磁电流稳定后，不得超过。
4. 本系列电动机的短时过载能力：
第一类直流电动机(A类)能过载下载所规定的短时(一分钟)过载：

Electrical Performance

1. Continuous working system(S1)is applied.
2. The standard rated voltage of this series motors are 220V, 330V, 440V, 550V and 660V. The voltage beyond above scope can be negotiated when placing orders.
3. Separate excitation is the basic excitation type of this series motors. Four terminals of the excitation winding are divided into two groups. In case the two groups are in series or parallel connection. The excitation voltage is 220V or 110V respectively. Excitation voltage beyond the scope can be negotiated.
Forced excitation is allowed with the voltage of less than 500V. During forced excitation, the transient excitation current can exceed the rated excitation current slightly until the excitation current gets stabilized.
4. short time overload capability:
The DC motor (class A) can sustain the short time (1 min) overload specified in the following list:

基速的百分数 Percent of the basic speed	额定电流的百分数 Percent of the rated current	
	偶尔使用 Occasionally used	经常使用 Often used
100	200(180*)	175(160*)
200	160	150
300以上	140	125

第二类直流电动机(B类)能过载下表所规定的短时(一分钟)过载：

The DC motors (class B) can sustain the short time (1min) overload specified in the following list:

基速的百分数 Percent of the basic speed	额定电流的百分数 Percent of the rated current	
	偶尔使用 Occasionally used	经常使用 Often used
100	200(180*)	175(160*)
200	200(180*)	160
300以上	175(160*)	140

当电动机的基速等于或大于下表规定的转速时，用括号内数值：

中心高（毫米） shaft height(mm)	355	400	450	500	560
基速（转/分） basic speed(r/min)	1000	900	800	710	630

偶尔使用的短时过载能力是指很少发生或在紧急情况下，电动机在一分钟内承受超过连续额定负载的能力，建议将断路的瞬时开断装置按偶尔使用的短时过载能力整定。

经常使用的短时过载能力是指作为正常工作周期的一部分，电动机反复承受超过额定负载的能力。

短时过载运行之后，必须轻载运行，使电动机整个负载周期的负载均方根值不超过其连续定额。

本系列第二类直流电动机(B类)应能承受下列连续负载：

(1) 在额定电枢电压和额定转速范围内带115%额定功率负载连续运行，在此负载下，温升将较高，其他特性可能与额定条件下运行的规定不同。

(2) 在额定电枢电压和额定转速范围内，在额定负载连续运行之后，紧接着以125%额定功率负载运行二小时，温升不超过规定数值，其他性能可能与额定条件下运行的规定值不同。

电动机在较低的过载倍数下允许较长的过载时间。对第二类直流电动机偶尔使用时过载倍数允许达到2.5倍(在额定基速时)，时间不超过15秒，(但需在订货时商定)。

5. 转速调整率

本系列电动机的转速调整不作规定，用户如有特殊要求，应在订货时商定。

6. 电流变化率

在所有转速及负载下，本系列电动机的电流变化率(di/dt)允许达到200倍额定电流/秒。

The data in brackets are applied in case the basic speed of the motors is equal to or greater than the speed specified in the following list:

The occasionally used short time overload capability refers to the motors capability of sustaining continuous overload within 1 minute in emergent or unusual cases. The transient switching device of breaker is suggested to be rectified according to such capability.

The often-used short time overload capability. As a part of normal operating period refers to the motors' capability of sustaining overload repently.

After short time overload operation. Light load operation is necessary to restrict the load root-mean-square of the whole load period within its continuous rating.

The DC motors (Class B) can sustain following continuous load:

(1) Under the rated armature voltage and rated speed the motor can be continuously operated with 115% overload. In the case, temperature rise will be relatively higher, and the other performance may be different from those under specified ratings.

(2) Soon after continuous operation under rated armature voltage and rated speed. The motor can be operated with 125% overload for two hours. In this case, temperature rise will not exceed the specified value, while the other performance may be different from those under specified ratings.

Under lower overload. Longer time overload is allowed. For the motors (class B). The occasionally use overload time is 2.5 times (under the rated speed) within 15 sec.(please consult with the manufacturer in detail).

5. Speed adjustment.

No speed adjustment is specified for this series motors. Any special requirements in this field by customers can be discussed.

6. Current variation:

The allowable current variation (di/dt) of this series motors under all speeds and loads is 200 times of the rated current per second.

7. 噪声振动

本系列电动机的噪声符合GB10069《旋转电机噪声测定方法和限值》和IEC34-9《电机噪声限值标准》的规定。

本系列电动机的振动符合GB10068《旋转电机振动测定方法和限值》和IEC34-14《电机振动测试方法及限值》标准的规定。

7.Noise and vibration:

The noise level of this series motors conform to the specifications stipulated in noise measuring Method for Electric Machines of GB2806 and standard of noise level for Electric Machines of IEC34-9.

Vibration of this series motors conform to the specifications stipulated in vibration Measuring Method for Electric Machines of GB2807 and Vibration Measuring Method and Limit for Electric Machines of IEC34-14.

特点和用途

1. 本系列电动机的性能、外形安装尺寸及技术要求均符合国家标准(GB)和国际电工委员会标准(IEC)，电机各部分机械尺寸，公差符合国际标准化委员会标准(ISO)。

2. 本系列电动机可安装在环境条件比较恶劣的场合，但必须选择正确的冷却方法和防护等级，以保持电机内部的清洁。

3. 本系列电动机的冷却空气中应不含有酸、碱等对电机的绝缘和换向性能有损害的气体。

4. 本系列电动机如使用于船舶和湿热带地区以及工作环境中盐雾、潮湿等，应另行协议。

5. 本系列电动机的额定功率是指在海拔不超过1000米，环境空气温度不超过40℃的条件下。

6. 本系列电动机的供电电源采用静止整流电源，也可采用直流发电机电源。

7. 当电动机采用静止整流电源时，整流器的脉波数应不小于6，在额定基速、额定电压和额定负荷电流下，峰值纹波因素不超过10%。

Features and Uses

1. The performance, outline dimensions and technical specifications of the motors conform to the standard of our country (GB) and International Electric Committee (IEC), while the mechanic dimensions tolerance of the motors conform to the standard of International Standard Organization(ISO).

2. It is allowed to install this series motors in the environment with worse working conditions. However propercooling and protection type should be chosen to keep the cleanliness of the motors.

3. The cooling air should not contain acid or alkali material, which is harmful to the insulation and commutating performance of the motors.

4. In case the motors will be applied to marines, tropical and humid areas, or the areas with salt and humid air, please notify before signing contracts.

5. The motors can reach its rated power under the working condition of less than 1000M sea level height and 40℃ ambient temperature.

6. The power source for the motors can be provided by static rectified source or DC generator.

7. In case the motor is powered by static rectified source the number of pulse wave should not be less than 6, the peak ripple wave factor not be over 10% under the rated speed, V-oltage and load current.

容量选择

第一类直流电动机(A类)

这类电动机的详细数据见数据表，用户可以根据所需的容量、转速和电压等选定电机的型号和规格。

第二类直流电动机(B类)

这类电动机的额定输出功率比相同中心高、相同底脚轴向长度的A类电动机要略为下降，其他数据基本相同。若已知B类电机规格，可用A类规格表初步选型B类电机，初选时B类电动机的额定功率应放大25%左右，然后按放大后的功率在A类规格表中选取相应的型号规格，但对应的中A需改为B，对应的功率仍为未放大的功率(即B类电机的原功率)。最终型号规格可

Capacity choosing

Class A: DC motors

Please refer to the technical data list, Customers can choose motor type and specifications according to the required capacity, rotating speed, voltage and etc.

Class B: DC motors

Except the rated output of the motors. Which is lower than that of class A motors with same shaft height and foot axial length, the other technical data are basically the same as those of class A motors. Should the specification of class B motor be given, one can use the specification list for class A motors to choose the preliminary Type of class B. First of all, the rated power of class B motor shall be enlarged by 25%, according to which a corresponding type and specification list for class A. The A in the symbol of the selected type, however, shall be replaced with B and the

由用户与制造厂商定。

举例说明如下：

使用场合需90kW 220V 170r/min B类电机→
放大功率25%后，对应为110kW 220V 170r/
min A类电机→查A类电机规格表得相近型号
Z450-2A 110kW 220V 167r/min→将型号改
成Z450-2B，此型号近似代表90kW 220V 170
r/min B类电机可以初步满足使用场合要求。

功率和转速的换算(对A类电机)：

本系列电动机除技术数据表中所列的五种
电压和相应的功率转速外，任何一个规格的
电机都可以派生成其他等级的电压(但不得超
过该电机的最高电压)和相 应的功率及转速。

换算关系如下：

Conversion formula is as follows:

$$K = \frac{U_1 - \Delta U}{U_N - \Delta U}$$

$$n_i \approx k \cdot n_N \quad (\text{r/min})$$

$$P_i \approx k \cdot P_N \quad (\text{kW})$$

ΔU : 电枢回路压降 voltage drop of armature circuit

U_1 : 新的电枢电压 new armature voltage

n_i : 新的额定转速 new rated speed

P_i : 新的额定输出功率 new rated output

U_N 、 n_N 、 P_N : 在技术数据表中所列的和新的
电压最接近，且高于新的供电电压的那个额
定电压及相应的额定基速和额定功率。

capacity shall be replaced with the non-enlarged power (that means with the original capacity of the class B). Final specifications and data can be discussed between customers and manufacturer.

For example:

Motor required by customer:

Class B motor of 90kW 220V 170r/min

Power enlarged by 25%:

110kW 220V 170r/min

Corresponding type in the specification list for class A:

Z450-2A (110kW 220V 167r/min)

Type transformed from class A to class B:

Z450-2B (approximate 90kW 220V 170r/min)

The motor of this type can basically meet the customers' requirements.

Output-speed conversion (for motors of class A):

Besides the five voltages and corresponding outputs and speeds specified in the technical data list, other voltage grades and their corresponding outputs and speeds can be derived from motors of any specifications. (However, it is not allowed to exceed the allowable maximum voltage of such specification)

技术数据表

Technical data

Z355-3A

适用于冷却方式

Applied to the cooling types of
IC06, IC17, IC37, ICW37A86

编号 series number	额定电压 U_N 下的转速 Rotating speed under the voltage below rated voltage U_N					功率 Output	额定 电流 Rated current	效率 Effi- ciency	最大 转速 Max. Speed	励磁 功率 Excita- tion Power	转动 惯量 Moment Of Inertial	通风 Ventilation		电枢回路 Armature circuit			
	220V	330V	440V	550V	660V							P_N kW	Ia A	η %	n_{max} r/min	Pf kW	J kg.m ²
01	184	307	453	558	709	55 90 132 160 200	329 326 344 323 331	71.5 80.4 84.6 87.8 89.9	600 1000 1500 1500 1500	4.6 4.6 4.6 4.6 4.6	11.0 11.0 11.0 11.0 11.0	1.5 1.5 1.5 1.5 1.5	1430 1430 1430 1430 1430	52.1 51.1 50.7 49.9 49.3	1.7 1.6 1.4 1.5 1.3		
02	248	443	550	772	898	75 132 160 220 250	421 457 405 437 409	77.2 85 87.7 89.8 91.1	800 1500 1500 1500 1500	4.5 4.5 4.5 4.5 4.5	11.0 11.0 11.0 11.0 11.0	1.4 1.5 1.5 1.5 1.5	1270 1430 1430 1430 1430	40.2 39.6 38.7 38.1 37.2	1.0 0.78 0.94 0.78 0.86		
03	382	568	805	1057	1235	110 160 220 280 315	590 543 545 549 510	82.0 87.1 90.2 91.5 92.4	1500 1500 1500 1500 1500	4.5 4.5 4.5 4.5 4.5	11.3 11.3 11.3 11.3 11.3	1.5 1.5 1.5 1.6 1.6	1430 1430 1430 1610 1610	31.2 30.5 29.8 28.9 28.0	0.47 0.51 0.48 0.45 0.50		
04	456	658	922	1214	1442	132 185 250 315 355	689 617 614 614 571	84.6 88.9 91 92.1 93.1	1500 1500 1500 1500 1500	4.6 4.6 4.6 4.6 4.6	12.0 12.0 12.0 12.0 12.0	1.5 1.5 1.6 1.6 1.7	1430 1430 1610 1610 1800	25.6 25.1 24.4 23.2 22.3	0.33 0.39 0.37 0.35 0.38		
05	557	913	1219	1540		160 250 315 371	813 821 764 716	87.2 90.7 92.5 93.1	1500 1500 1500 1540	4.7 4.7 4.7 4.7	12.0 12.0 12.0 12.0	1.5 1.6 1.7 1.8	1430 1610 1800 2000	19.8 19.1 18.1 17.1	0.23 0.21 0.23 0.24		
06																	

* 电机效率包括励磁功率

efficiency including excitation loss

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC06, IC17, IC37, ICW37A86

Z355-4A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯量 Moment Of Inertial	通风 Ventilation		电枢回路 Armature circuit										
												风量 volume	风压 pre- ssure	电压降 voltage drop	电感 induc- tance									
	220V	330V	440V	550V	660V							P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa	ΔU V	La mH			
01	148	246	363	447	568	55	340	68.8	600	5.2	13.1	1.6	1610	57.5	2.0									
						90	332	78.5	800	5.3	13.1	1.6	1610	56.4	1.9									
						132	348	83.5	1200	5.3	13.1	1.6	1610	56.1	1.7									
						160	327	86.4	1500	5.3	13.1	1.6	1610	55.2	1.8									
02	196	354	436	556	710	75	432	74.6	800	5.4	13.1	1.6	1610	44.5	1.2									
						132	466	83	1200	5.4	13.1	1.6	1610	43.4	0.96									
						160	410	86.1	1500	5.4	13.1	1.6	1610	42.9	1.2									
						200	401	88.6	1500	5.4	13.1	1.6	1610	42.0	1.2									
03	305	453	641	838	974	110	604	79.7	1000	5.3	13.2	1.6	1610	34.4	0.57									
						160	549	85.8	1500	5.4	13.2	1.6	1610	33.8	0.63									
						220	549	89.1	1500	5.3	13.2	1.6	1610	33.1	0.60									
						280	550	91.1	1500	5.3	13.2	1.7	1800	32.1	0.57									
04	365	526	734	961	1137	315	511	92	1500	5.4	13.2	1.7	1800	31.0	0.63									
						132	700	82.9	1200	5.3	13.7	1.6	1610	28.1	0.41									
						185	624	87.6	1500	5.3	13.7	1.6	1610	27.5	0.48									
						250	619	90.1	1500	5.3	13.7	1.7	1800	26.7	0.46									
05	443	724	961	1220	1478	315	614	91.9	1500	5.3	13.7	1.7	1800	25.8	0.45									
						375	727	92.6	1500	5.4	13.7	1.8	2000	19.1	0.30									
						425	681	93.4	1500	5.4	13.7	1.9	2000	18.1	0.31									
06																								

* 电机效率包括励磁功率

efficiency including excitation loss

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC06, IC17, IC37, ICW37A86

Z400-2A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯量 Moment Of Inertial	通风 Ventilation		电枢回路 Armature circuit	
												风量 volume	风压 pre- ssure	电压降 voltage drop	电感 induc- tance
	P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa	ΔU V	La mH					
01	126	205	304	429	514	220	371	87.9	1500	5.6	20.2	1.9	1310	63.9	2.3
02	164	244	354	454	575	75	457	70.6	500	5.7	20.2	1.9	1450	55.1	1.4
						110	404	79.3	1000	5.7	20.2	1.9	1450	54.4	1.6
						160	420	84.1	1200	5.7	20.2	1.9	1450	53.9	1.4
						200	399	86.7	1500	5.7	20.2	1.9	1590	53.1	1.4
03	203	341	460	596	746	90	516	75.4	800	5.9</					

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC06, IC17, IC37, ICW37A86

Z400-3A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯量 Moment Of Inertial	通风 Ventilation		电枢回路 Armature circuit							
												风量 volume	风压 pre- ssure	电压降 voltage drop	电感 induc- tance						
	220V	330V	440V	550V	660V							P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa	ΔU V	La mH
01	97	162	239	336	402	55	375	61.9	350	6.5	23.9	2.1	1740	72.1	2.9						
												90	351	73.6	600	6.6	23.9	2.0	1590	71	2.8
												132	362	79.7	800	6.6	23.9	2.1	1740	70.3	2.4
												185	384	85.1	1000	6.6	23.9	2.1	1740	70.5	2.0
02	130	192	282	355	449	75	469	68.4	500	6.5	23.9	2.0	1590	60.8	1.7						
												110	412	77.2	600	6.7	23.9	2.1	1740	60.1	2.0
												160	425	82.7	1000	6.6	23.9	2.1	1740	59.5	1.8
												200	414	85.5	1200	6.7	23.9	2.1	1740	59.3	1.8
03	160	271	364	462	592	90	530	73.2	600	6.5	24.5	2.1	1740	48.8	1.2						
												150	537	81.7	1000	6.5	24.5	2.1	1740	47.8	1.1
												200	517	85.5	1200	6.5	24.5	2.1	1740	47.6	1.1
												250	505	88	1500	6.6	24.5	2.1	1740	46.8	1.1
04	239	367	522	636	774	132	725	79.6	800	6.5	24.5	2.1	1740	36.6	0.61						
												200	689	85.5	1200	6.6	24.5	2.1	1740	36.1	0.62
												280	702	88.8	1500	6.6	24.5	2.1	1740	35.7	0.57
												335	662	90.4	1500	6.6	24.5	2.2	1900	35.2	0.62
05	286	453	622	760	908	160	854	82.3	1000	6.6	25.1	2.1	1740	30.4	0.43						
												250	845	87.6	1500	6.6	25.1	2.2	1900	30.1	0.41
												335	824	90.8	1500	6.6	25.1	2.2	1900	29.5	0.41
												400	783	91.5	1500	6.6	25.1	2.3	2060	29.0	0.44
06	371	573	787	972	1199	200	1037	85.2	1200	6.6	25.1	2.1	1740	24.4	0.27						
												300	997	89.4	1500	6.6	25.1	2.2	1900	24	0.28
												400	977	91.7	1500	6.6	25.1	2.3	2060	23.4	0.27
												475	921	92.6	1500	6.6	25.1	2.3	2230	22.6	0.29

* 电机效率包括励磁功率

efficiency including excitation loss

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC06, IC17, IC37, ICW37A86

Z400-4A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯
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技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC06, IC17, IC37, ICW37A86

Z450-1A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯量 Moment Of Inertial	通风 Ventilation		电枢回路 Armature circuit	
	P _n kW	I _a A	η %	n _{max} r/min	P _f kW							风量 volume	风压 pressure	电压降 voltage drop	电感 induc- tance
	220V	330V	440V	550V	660V										
01	173	311	431	557	676	90	525	74.3	600	5.8	41.8	2.0	1130	46.3	1.2
						160	571	82.5	1000	5.8	41.8	2.1	1230	45.4	0.89
						220	566	86.4	1200	5.8	41.8	2.1	1230	45.6	0.86
						280	564	88.7	1500	5.8	41.8	2.0	1340	45.0	0.84
						335	554	90.3	1500	5.8	41.8	2.0	1340	44.5	0.84
02	229	356	487	664	806	120	669	78.5	1500	5.7	41.8	2.1	1230	38.3	0.69
						185	544	84.8	700	5.7	41.8	2.1	1230	38.1	0.69
						250	633	88	1000	5.7	41.8	2.2	1340	37.6	0.68
						335	665	90.2	1500	5.7	41.8	2.2	1340	37.1	0.59
						400	654	91.5	1500	5.7	41.8	2.3	1450	36.4	0.6
03	287	485	623	750	986	150	805	82.1	1500	5.7	37.3	2.1	1230	30.5	0.45
						250	848	87.6	1000	5.7	37.3	2.1	1230	30.1	0.38
						315	785	89.8	1500	5.7	37.3	2.2	1340	29.6	0.43
						400	784	91.6	1500	5.7	37.3	2.3	1450	29.0	0.45
						475	769	92.6	1500	5.7	37.3	2.4	1570	28.2	0.42
04	432	674	879	1132	1395	220	1138	85.9	1500	5.7	37.3	2.2	1340	23.8	0.21
						335	1112	89.9	1500	5.7	37.3	2.3	1450	23.2	0.23
						425	1042	91.6	1500	5.7	37.3	2.4	1570	22.7	0.23
						530	1028	92.8	1500	5.7	37.3	2.5	1690	22.2	0.23
						630	1013	93.5	1500	5.7	37.3	2.7	1950	21.5	0.22
05	489	807	1049	1320		250	1275	87.4	1500	5.7	39.2	2.3	1450	19.7	0.17
						400	1313	91.1	1500	5.7	39.2	2.4	1570	19.2	0.15
						500	1219	92.3	1500	5.7	39.2	2.6	1810	18.6	0.16
						600	1161	93.1	1500	5.7	39.2	2.7	1950	18.0	0.17
06	626	990	1328			315	1578	89.3	1500	5.7	39.2	2.4	1570	15.7	0.10
						475	1546	92.1	1500	5.7	39.2	2.5	1690	15.1	0.10
						600	1454	93	1500	5.7	39.2	2.8	2080	14.2	0.11

* 电机效率包括励磁功率

efficiency including excitation loss

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC06, IC17, IC37, ICW37A86

Z450-2A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯量 Moment Of Inertial	通风 Ventilation		电枢回路 Armature circuit	
	P _n kW	I _a A	η %	n _{max} r/min	P _f kW							风量 volume	风压 pressure	电压降 voltage drop	电感 induc- tance
	220V	330V	440V	550V	660V										
01	137	246	340	439	531	90	535	72.4	500	6.7	39.2	2.2	1340	50.3	1.4
						160	518	90.2	800	6.7	39.2	2.3	1450	50.1	1.2
						220	570	85.4	1000	6.7	39.2	2.3	1450	49.7	1.6
						280	567	87.9	1500	6.7	39.2	2.3	1450	49.2	1.1
						335	555	89.8	1500	6.7	39.2	2.4			

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC06, IC17, IC37, ICW37A86

Z450-3A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯量 Moment Of Inertial	通风 Ventilation		电枢回路 Armature circuit								
												风量 volume	风压 pre- ssure	电压降 voltage drop	电感 induc- tance							
	220V	330V	440V	550V	660V							P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa	ΔU V	La mH	
01	110	185	274	353	402	90	558	69.6	350	6.5	47.9	2.4	1570	56.2	1.7							
						150	555	79.1	600	6.5	47.9	2.5	1690	55.6	1.5							
						220	581	84	800	6.5	47.9	2.5	1690	55.4	1.3							
						280	574	86.9	1000	6.5	47.9	2.5	1690	54.7	1.3							
02	133	227	310	396	497	315	528	88.8	1500	6.5	47.9	2.5	1690	54.1	1.5							
						110	645	74.1	500	6.5	47.9	2.5	1690	47	1.5							
						185	663	82.2	800	6.5	47.9	2.5	1690	46.4	1.1							
						250	646	86.1	1000	6.5	47.9	2.5	1690	46.1	1.0							
03	183	309	395	512	593	315	794	88.6	1200	6.5	49.2	2.5	1690	36.1	0.67							
						400	793	90.4	1500	6.5	49.2	2.6	1810	35.4	0.64							
						467	761	91.8	1500	6.5	49.2	2.6	1810	34.7	0.7							
						200	1061	83.4	800	6.5	49.2	2.5	1690	28.5	0.39							
04	251	402	554	711	871	315	1062	88.3	1500	6.5	49.2	2.6	1810	28	0.37							
						425	1049	90.8	1500	6.5	49.2	2.7	1950	27.4	0.36							
						530	1033	92.3	1500	6.5	49.2	2.8	2080	26.8	0.36							
						630	1012	93.4	1500	6.5	49.2	2.8	2080	26.2	0.36							
05	311	478	660	863		250	1298	85.6	1000	6.5	51.6	2.6	1810	23.8	0.26							
						375	1246	89.8	1500	6.5	51.6	2.7	1950	23.4	0.26							
						500	1223	91.8	1500	6.5	51.6	2.8	2080	22.7	0.26							
						630	1218	93.2	1500	6.5	51.6	2.9	2230	21.9	0.25							
06	397	622	828			315	1598	88	1200	6.5	51.6	2.6	1810	19	0.17							
						475	1556	91.4	1500	6.5	51.6	2.8	2080	18.2	0.16							
						600	1454	92.9	1500	6.5	51.6	2.9	2230	17.5	0.17							

* 电机效率包括励磁功率

efficiency including excitation loss

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC06, IC17, IC37, ICW37A86

Z450-4A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯量 Moment Of Inertial	通风 Ventilation		电枢回路 Armature circuit	
												风量 volume	风压 pre- ssure	电压降 voltage drop	电感 induc- tance
	P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa	ΔU V	La mH					
01	90	142	201	283	322	90	580	66.7	300	7.3	56.9	2.7	1950	62.5	2.0
						150	569	77	500	7.3	56.9	2.7	1950	62.4	2.0
						220	536	82.2	700	7.3	56.9	2.7	1950	61.7	2.0
						280	581	85.8	800	7.3	56.9	2.8	2080	6	

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC06, IC17, IC37, ICW37A86

Z500-1A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯量 Moment Of Inertial	通风 Ventilation		电枢回路 Armature circuit							
												风量 volume	风压 pre- ssure	电压降 voltage drop	电感 induc- tance						
	220V	330V	440V	550V	660V							P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa	ΔU V	La mH
01	201	319	462	565	679	160	878	80.3	600	6.2	70.2	2.4	1050	34.1	0.6						
						250	879	86.2	1000	6.2	70.2	2.5	1130	33.7	0.56						
						355	888	89.5	1200	6.2	70.2	2.6	1210	33.1	0.51						
						425	839	90.9	1200	6.2	70.2	2.6	1210	32.5	0.55						
						500	813	92.1	1200	6.2	70.2	2.7	1290	32.0	0.57						
02	247	396	517	664	823	200	1062	83.4	800	6.2	70.2	2.4	1050	28.2	0.4						
						315	1063.	88.3	1200	6.2	70.2	2.5	1130	27.8	0.37						
						400	990	90.6	1200	6.2	70.2	2.6	1210	27.1	0.41						
						500	977	92	1200	6.2	70.2	2.7	1290	26.5	0.4						
						600	967	93.1	1200	6.2	70.2	2.7	1290	25.8	0.4						
03	318	526	724	898	1065	250	1293	86	1000	6.2	72.1	2.6	1210	22.5	0.26						
						400	1325	90.2	1200	6.2	72.1	2.7	1290	19.9	0.23						
						530	1294	92.1	1200	6.2	72.1	2.8	1380	21.2	0.22						
						630	1219	93.1	1200	6.2	72.1	2.9	1470	20.5	0.24						
						710	1139	93.7	1200	6.2	72.1	3.0	1560	19.6	0.26						
04	461	681	962	1150		355	1787	88.9	1200	6.2	73.8	2.7	1290	17.1	0.13						
						500	1636	91.6	1200	6.2	73.8	2.8	1380	16.5	0.14						
						670	1620	93.2	1200	6.2	73.8	3.0	1560	15.8	0.13						
						750	1444	93.7	1200	6.2	73.8	3.1	1660	15.0	0.16						
05	518	823	1095			400	1999	89.7	1200	6.2	73.8	2.8	1380	14.8	0.1						
						600	1949	92.4	1200	6.2	73.8	3.0	1560	14.1	0.1						
						750	1809	93.5	1200	6.2	73.8	3.2	1760	13.3	0.1						
06																					

* 电机效率包括励磁功率

efficiency including excitation loss

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC06, IC17, IC37, ICW37A86

Z500-2A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯量 Moment Of Inertial	通风 Ventilation		电枢回路 Armature circuit								
												风量 volume	风压 pre- ssure	电压降 voltage drop	电感 induc- tance							
	P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa	ΔU V	La mH												
01	162	256	348	428	540	160	896	78.7	500	6.3	80.2	2.6	1210	37.7	0.72							
						250	873	85	800	6.3	80.2	2.7	1290	37.3	0.71							
						335	850	88.3	1000	6.3	80.2	2.7	1290	36.7	0.71							
						425	844	90.4	1200	6.3	80.2	2.8	1380	36.1	0.73							

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC06, IC17, IC37, ICW37A86

Z500-3A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯量 Moment Of Inertial	通风 Ventilation		电枢回路 Armature circuit	
	P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa	ΔU V	La mH					
	220V	330V	440V	550V	660V										
01	124 209 284 368 440	209 284 368 440	150	856	76.5	400	7.8	94.4	2.9	1470	41.7	0.99			
			250	882	83.7	600	7.8	94.4	3.0	1560	41.3	0.86			
			335	854	87.4	1000	7.8	94.4	3.0	1560	40.7	0.87			
			425	848	89.7	1200	7.8	94.4	3.0	1560	40.2	0.85			
			500	819	91.2	1200	7.8	94.4	3.0	1560	39.4	0.88			
02	150 248 336 550 532	248 336 550 532	185	1015	80.1	500	7.8	94.4	2.9	1470	34.5	0.69			
			300	1031	86.2	700	7.8	94.4	2.9	1470	33.8	0.62			
			400	1001	89.3	1000	7.8	94.4	3.0	1560	33.2	0.61			
			550	1073	92	1300	7.8	94.4	3.0	1560	32.6	0.45			
			600	973	92.4	1200	7.8	94.4	3.0	1560	31.8	0.61			
03	209 344 444	344 444	250	1318	84	600	7.8	95.8	3.0	1560	26.8	0.38			
			400	1340	88.9	1000	7.8	95.8	3.0	1560	26.1	0.35			
			500	1230	91.1	1200	7.8	95.8	3.0	1560	25.3	0.39			
			600	1166	92.5	1400	7.8	95.8	3.1	1660	24.6	0.38			
			710	1142	93.3	1200	7.8	95.8	3.1	1660	23.7	0.41			
04	285 440	582 714	355	1711	87.2	1000	7.8	99.8	3.1	1660	20.8	0.22			
			500	1645	90.8	1200	7.8	99.8	3.1	1660	20.1	0.22			
			630	1532	92.4	1200	7.8	99.8	3.2	1760	19.3	0.24			
			769	1480	93.6	1200	7.8	99.8	3.2	1870	18.4	0.25			
05	337 532	709	400	2015	88.7	1000	7.8	99.8	3.1	1660	17.4	0.16			
			600	1957	91.8	1200	7.8	99.8	3.2	1760	16.5	0.16			
			750	1810	93.3	1200	7.8	99.8	3.3	1870	15.8	0.13			
06															

* 电机效率包括励磁功率

efficiency including excitation loss

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC06, IC17, IC37, ICW37A86

Z500-4A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯量 Moment Of Inertial	通风 Ventilation		电枢回路 Armature circuit	
	P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa	ΔU V	La mH					
	220V	330V	440V	550V	660V										
01	102 151 220 282 285	151 220 282 285	150	884	73.9	300	8.5	110.8	3.1	1660	46.6	1.2			
			220	790	81.8	500	8.5	110.8	3.2	1760	46.1	1.3			
			315	813	86.1	650	8.5	110.8	3.2	1760	45.5	1.2			
			400	808	88.4	1000	8.5	110.8	3.2	1760	44.8	1.2			
			403	655	91.5	800	8.5	110.8	3.2	1760	44.1	1.7			
02	122 189 258 337 405	189 258 337 405	185	1038	78.1	350	8.5	110.8	3.2	1660	38.2	0.83			
			280	975	84.5	600	8.5	110.8	3.1	1660	37.6	0.86			
			375	950	88	800	8.5	110.8	3.2	1760	37.2	0.86			
			475	934	90.1	1000	8.5	110.8	3.2	1760	36.2	0.83			
			560	915	91.5	1200	8.5	110.8	3.2	1760	35.4	0.85			
03	171 265 362 449 551	265 362 449 551	250	1339	82.5	500	8.5	113.2	3.2	1760	29.7	0.45			
			375	1269	87.8	800	8.5	113.2	3.2	1760	29	0.47			
			500	1237	90.5	1200	8.5	113.2	3.2	1760	28.2	0.47			
			600	1172	91.9	1200	8.5	113.2	3.2						

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC06, IC17, IC37, ICW37A86

Z560-2A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯量 Moment Of Inertial	通风 Ventilation		电枢回路 Armature circuit	
	风量 volume	风压 pre- ssure	电压降 voltage drop	电感 induc- tance											
	P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa	ΔU V	La mH					
01	156	248	341	435	530	630	1030	91.6	1200	8	120.4	3.3	1310	37.2	0.6
					200	1116	78.9	500	8	120.4	3.3	1310	36.6	0.56	
					315	1095	85.3	800	8	120.4	3.3	1310	36.1	0.57	
					425	1074	88.5	1000	8	120.4	3.4	1380	35.6	0.58	
					530	1053	90.3	1200	8	120.4	3.5	1450	34.6	0.58	
02	192	296	404	525	645	750	1212	92.8	1200	8	119.6	3.2	1240	29.6	0.41
					250	1338	82.7	700	8	119.6	3.3	1310	29	0.42	
					375	1273	87.6	1000	8	119.6	3.4	1380	28.3	0.42	
					500	1245	90	1200	8	119.6	3.5	1450	27.6	0.41	
					630	1235	91.7	1200	8	119.6	3.6	1530	26.8	0.4	
03	247	383	526	695	820	900	1451	93.2	1200	8	119.6	4	1860	21.7	0.26
					315	1653	84.8	800	8	119.6	3.5	1450	25.1	0.26	
					475	1592	89.1	1200	8	119.6	3.6	1530	24.3	0.26	
					630	1552	91.2	1200	8	119.6	3.8	1690	23.6	0.26	
					800	1557	92.6	1200	8	119.6	3.9	1770	22.7	0.24	
					900	1451	93.2	1200	8	119.6	4	1860	21.7	0.26	
04	312	488	640	816											
					400	2037	87.8	1000	8	126.3	3.5	1450	19.2	0.17	
					600	1974	91	1200	8	126.3	3.6	1530	18.7	0.16	
					750	1829	92.3	1200	8	126.3	3.8	1690	18	0.18	
					900	1740	93.3	1200	8	126.3	4	1860	17.1	0.18	
05															
06															

* 电机效率包括励磁功率

efficiency including excitation loss

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC06, IC17, IC37, ICW37A86

Z560-3A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯量 Moment Of Inertial	通风 Ventilation		电枢回路 Armature circuit	
	风量 volume	风压 pre- ssure	电压降 voltage drop	电感 induc- tance											
	P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa	ΔU V	La mH					
01	117	191	277	352	427	630	1034	91.1	1200	9	140.2	3.6	1530	41.4	0.85
	185	1054	76.8	400	9	140.2	3.6	1530	41	0.78	300	1059	83.7	700	9
	425	1079	87.9	800	9	140.2	3.7	1610	40.2	0.7	530	1058	89.7	1000	9
02	156	240	327	423	519	750	1218	92.3	1200	9	148.4	3.5	1450	32.3	0.5
	250	1059	81.2	500	9	148.4	3.6	1530	32	0.51	375	1258	86.6	800	9
	500	1250	89.5	1000	9	148.4	3.7	1610	31.4	0.51	630	1550	91.2	1200	9
03	200	309	424	559	656	900	1451	93.1	1200	9	148.4	4.1	1860	26.1	0.3
	315	1670	83.7	700	9	148.4	3.9	1770	27	0.32	475	1601	88.4	1000	9
	630	1559	90.7	1200	9	148.4	4	1860	26.1	0.32	800	1560	92.3	1200	9
04	253	394	515	652	900	1742	93.1	1200	9	150.1	3.7	1510	21.4	0.2	
	400	2056	86.7	800	9	150.1	3.9	1770	20.7	0.22	600	1984	90.4	1200	9
	750	1831	92.1	1200	9	150.1	4	1860	20	0.22	900	1742	93.1	1200	9
05															
06															

* 电机效率包括励磁功率

efficiency including excitation loss

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC06, IC17, IC37, ICW37A86

Z560-4A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Efficiency	最大转速 Max. Speed	励磁功率 Excitation Power	转动惯量 Moment Of Inertial	通风 Ventilation		电枢回路 Armature circuit	
	P _n kW	I _a A	η %	n _{max} r/min	P _f kW							风量 volume	风压 pressure	电压降 voltage drop	电感 inductance
	220V	330V	440V	550V	660V										
01	95	156	210	269	328	185	1087	74.3	300	9.9	180.6	3.9	1770	46.6	1.02
						300	1076	82.2	500	9.9	180.6	4.0	1860	46.1	0.94
						400	1035	86	1600	9.9	180.6	4.0	1860	45.4	0.97
						500	1009	88.5	1800	9.9	180.6	4.1	1950	44.7	0.97
						600	994	90.1	1000	9.9	180.6	4.1	1950	43.9	0.97
02	112	193	264	341	390	220	1223	78.9	400	9.9	184.7	3.8	1690	36.7	0.77
						375	1301	85.4	700	9.9	184.7	3.9	1770	36.2	0.63
						500	1260	88.6	800	9.9	184.7	3.9	1770	35.5	0.63
						630	1248	90.5	1000	9.9	184.7	4.0	1860	34.8	0.63
						728	1184	92	1200	9.9	184.7	4.1	1950	34.1	0.69
03	161	250	341	449	525	315	1693	82.4	500	9.9	184.7	4.1	1950	30.4	0.39
						475	1614	87.6	800	9.9	184.7	4.0	1950	29.8	0.39
						630	1564	90.3	1000	9.9	184.7	4.2	2030	29	0.40
						800	1556	91.9	1200	9.9	184.7	4.3	2130	28.1	0.38
						900	1458	92.6	1200	9.9	184.7	4.4	2220	27.1	0.41
04	193	296	413	520		385	1954	85.3	600	9.9	188.9	4.0	1860	23.9	0.28
						560	1862	89.7	1000	9.9	188.9	4.1	1950	23.3	0.29
						750	1841	91.5	1200	9.9	188.9	4.2	2030	22.6	0.28
						900	1748	92.7	1200	9.9	188.9	4.3	2130	21.6	0.29
05															
06															

* 电机效率包括励磁功率

efficiency including excitation loss

技术数据表

Technical data

适用于冷却方式

Applied to the cooling types
IC17, IC37, ICW37A86

Z630-2A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Efficiency	最大转速 Max. Speed	励磁功率 Excitation Power	转动惯量 Moment Of Inertial	通风 Ventilation							
	440V	550V	660V	750V								P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	风量 volume	风压 pressure
01	337	428	519	593		564	1410	91.5	1000	12.39	281	3.8	1140						
						697	1366	92.8	1200	12.38	281	3.9	1190						
						821	1330	93.5	1200	12.38	281	4.1	1300						
						915	1298	94.0	1200	12.42	281	4.2	1360						
02	393	498	603	689		662	1633	92.2	1200	12.37	285	4.0	1240						
						811	1581	93.2	1200	12.39	285	4.2	1360						
						946	1527	93.9	1200	12.41	285	4.4	1480						
						1045	1479	94.2	1200	12.42	285	4.5	1540						
03	429	543	457	750		723	1769	92.9	1100	12.39	288	4.0	1240						
						879	1705	93.8	1200	12.36	288	4.2	1360						
						1019	1638	94.2	1200	12.35	288	4.4	1480						
						1118	1578	94.5	1200	12.37	288	4.6	1610						
04	553	674	816			839	2052	92.9	1200	12.38	292	4.5	1540						
						1010	1960	93.7	1200	12.40	292	4.7	1670						
						1157	1863	94.1	1200	12.34	292	5.0	1870						
05</																			

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC17, IC37, ICW37A86

Z630-3A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯量 Moment Of Inertial	通风 Ventilation	
	P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa				风量 volume	风压 pre- ssure
01	268 341 414 474	561 697 825 922 1403 1372 1340 1311	90.9 92.4 93.3 93.8	800 1000 1000 1000	13.86 13.85 13.84 13.81	320 320 320 320	4.1 4.2 4.3 4.4	1300 1360 1420 1480					
02	313 397 481 550	660 813 954 1058 1636 1590 1542 1498	91.7 93.0 93.7 94.2	900 1000 1000 1000	13.79 13.85 13.88 13.88	324 324 324 324	4.3 4.4 4.6 4.7	1420 1480 1610 1670					
03	342 433 524 599	723 884 1030 1135 1776 1717 1657 1601	92.5 93.6 94.2 94.5	1000 1000 1000 1100	13.80 13.83 13.86 13.82	327 327 327 327	4.3 4.4 4.6 4.7	1420 1480 1610 1670					
04	425 538 651	840 1019 1177 2061 1979 1894	92.6 93.6 94.2	1000 1000 1000	13.79 13.81 13.83	331 331 331	4.8 4.9 5.0	1730 1800 1940					
05													
06													

* 电机效率包括励磁功率

efficiency including excitation loss

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC17, IC37, ICW37A86

Z630-4A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯量 Moment Of Inertial	通风 Ventilation						
	440V	550V	660V	750V								P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s
01	211 269 327 375	555 692 822 923 1400 1371 1341 1317	90.0 91.8 92.8 93.5	600 800 800 800	15.79 15.79 15.80 15.70	371 371 371 371	4.5 4.6 4.6 4.7	1540 1610 1610 1610										
02	247 314 381 436	654 810 955 1064 1633 1592 1549 1510	91.0 92.5 93.4 94.0	800 800 800 800	15.60 15.64 15.67 15.66	375 375 375 375	4.7 4.8 4.9 4.9	1670 1730 1800 1800										
03	270 342 415 474	717 882 1033 1150 1771 1720 1665 1624	92.0 93.2 94.0 94.4	800 800 800 800	15.65 15.77 15.69 15.75	378 378 378 378	4.6 4.7 4.8 4.9	1610 1670 1730 1800										
04	335 425 515	836 1021 1188 2061 1989 1914	92.2 93.3 94.0	800 800 800	15.70 15.68 15.67	382 382 382	5.1 5.2 5.3	1940 2020 2090										
05																		
06																		

* 电机效率包括励磁功率

efficiency including excitation loss

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC17, IC37, ICW37A86

Z630-5A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电 流 Rated current	效 率 Effi- ciency	最大 转 速 Max. Speed	励 磁 功 率 Excita- tion Power	转 动 惯 量 Moment Of Inertial	通风 Ventilation	
	P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa					
01	165 211 257	211 294	540 678 809 911	1378 1355 1329 1306	89.0 91.0 92.2 93.0	500 600 700 700	18.13 18.10 18.08 18.27	438 438 438 438	5.0 5.0 5.1 5.1	1870 1870 1940 1940			
02	193 246 299	246 342	639 795 942 1054	1610 1573 1535 1501	90.2 91.9 93.0 93.6	600 700 700 700	18.06 18.08 18.09 18.19	441 441 441 441	5.2 5.2 5.3 5.3	2020 2020 2090 2090			
03	211 268 326	268 326	702 868 1022 1139	1747 1701 1653 1612	91.3 92.8 93.7 94.2	500 700 800 700	18.20 18.28 18.08 18.06	445 445 445 445	5.0 5.1 5.1 5.1	1870 1940 1940 2020			
04	262 333 404	333 404	820 1009 1180	2036 1975 1907	91.5 92.9 93.8	600 700 700	18.07 18.06 18.05	449 449 449	5.5 5.6 5.7	2240 2310 2390			
05													
06													

* 电机效率包括励磁功率

efficiency including excitation loss

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC17, IC37, ICW37A86

Z710-2A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电 流 Rated current	效 率 Effi- ciency	最大 转 速 Max. Speed	励 磁 功 率 Excita- tion Power	转 动 惯 量 Moment Of Inertial	通风 Ventilation							
	440V	550V	660V	750V								P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa
01	230 300	300 335	335 380			490 630 759 860	1233 1223 1229 1208	89.1 92.2 92.0 92.3	690 1000 1050 1150	7.6 7.6 7.6 7.6	320 320 320 320	6.5 6.5 6.5 6.5	1000 1000 1000 1000						
02	280 335	335 425	425 485			650 840 1000 1150	1630 1625 1600 1615	92.8 93.0 93.2 93.3	900 1000 1000 1100	7.6 7.6 7.6 7.6	320 320 320 320	6.5 6.5 6.5 6.5	1000 1000 1000 1000						
03	325 400	400 470	470 530			800 1000 1250 1400	1952 1935 2000 1965	92.5 92.9 93.1 93.3	900 850 1000 1000	7.6 7.6 7.6 7.6	320 320 320 320	6.5 6.5 6.5 6.5	1000 1000 1000 1000						
04	350 450	450 500	500 550			850 1200 1400	2065 1930 1915	92.5 92.8 93.3	900 1000 1000	7.6 7.6 7.6	320 320 320	6.5 6.5 6.5	1000 1000 1000						
05																			
06																			

* 电机效率包括励磁功率

efficiency including excitation loss

技术数据表

Technical data

适用于冷却方式
Applied to the cooling types of
IC17, IC37, ICW37A86

Z710-3A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯量 Moment Of Inertial	通风 Ventilation						
	P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa				风量 volume	风压 pre- ssure					
01	180 235 285 325	487 630 755 850	1230 1233 1236 1215	88.6 89.5 91.6 92.0	540 700 855 900	8.7 8.7 8.7 8.7	350 350 350 350	7.0 7.0 7.0 7.0	1150 1150 1150 1150	440V 550V 660V 750V	P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa
02	225 300 355 400	634 815 977 1150	1576 1590 1586 1648	90.3 91.4 92.6 93.1	675 780 900 1000	8.7 8.7 8.7 8.7	350 350 350 350	7.0 7.0 7.0 7.0	1150 1150 1150 1150	440V 550V 660V 750V	P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa
03	280 355 430	808 1025 1231	2008 2004 1986	90.6 92.1 93.3	840 840 860	8.7 8.7 8.7	350 350 350	7.0 7.0 7.0	1150 1150 1150	440V 550V 660V 750V	P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa
04										440V 550V 660V 750V	P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa
05										440V 550V 660V 750V	P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa
06										440V 550V 660V 750V	P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s	H Pa

* 电机效率包括励磁功率

efficiency including excitation loss

技术数据表

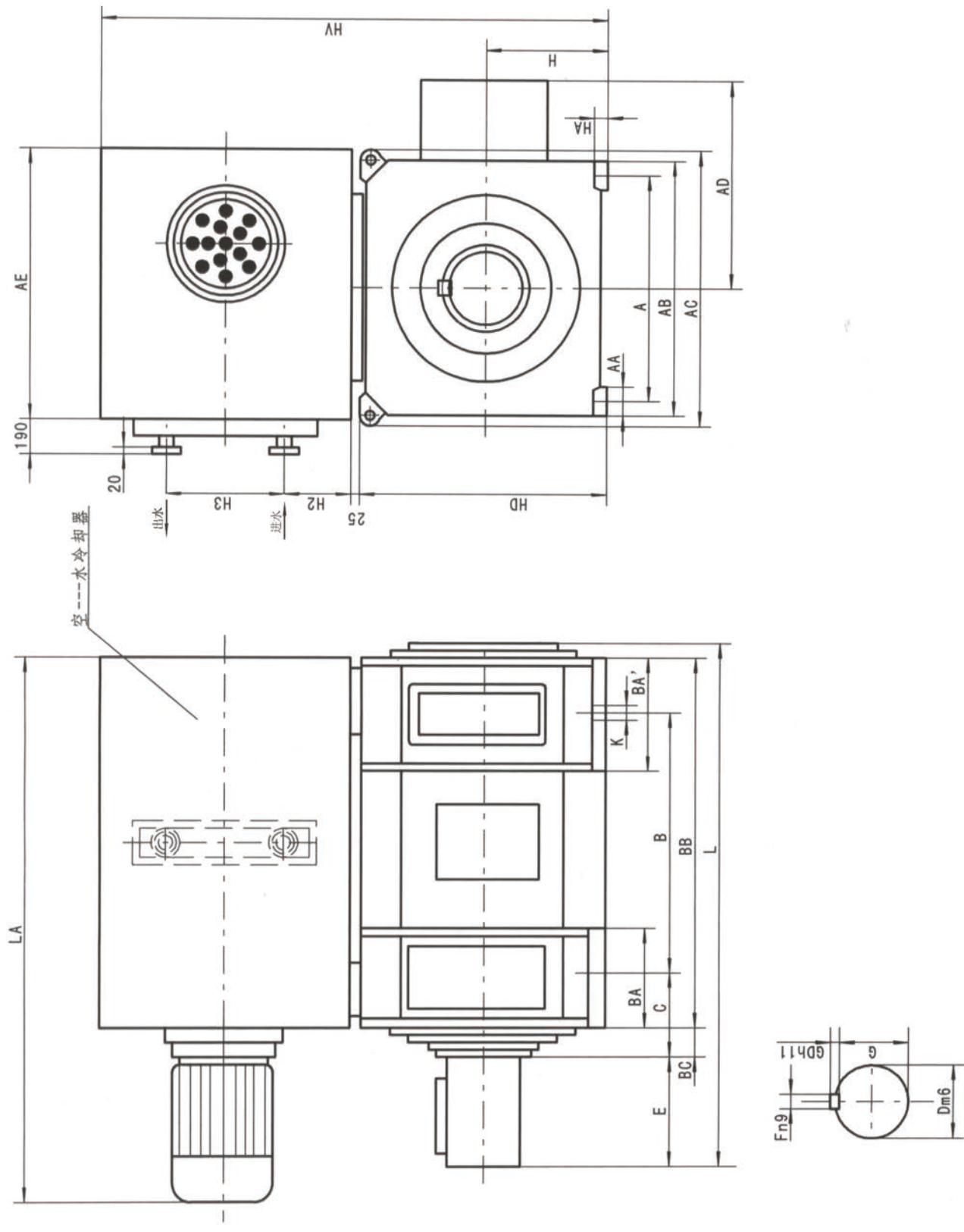
Technical data

Z710-4A

编号 series number	额定电压U _n 下的转速 Rotating speed under the voltage below rated voltage U _n r/min					功率 Output	额定电流 Rated current	效率 Effi- ciency	最大转速 Max. Speed	励磁功率 Excita- tion Power	转动惯量 Moment Of Inertial	通风 Ventilation						
	440V	550V	660V	750V								P _n kW	I _a A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /s
01	145	190	230	260		482 625 750 850	1229 1235 1236 1220	87.6 90.2 90.9 91.2	435 570 690 700	9.6 9.6 9.6 9.6	390 390 390 390	7.5 7.5 7.5 7.5	1350 1350 1350 1350	7.5 7.5 7.5 7.5	1350 1350 1350 1350			
02	185	235	285	325		629 800 972 1150	1580 1565 1585 1640	89.3 91.3 92.1 93.3	555 580 600 650	9.6 9.6 9.6 9.6	390 390 390 390	7.5 7.5 7.5 7.5	1350 1350 1350 1350	7.5 7.5 7.5 7.5	1350 1350 1350 1350			
03	225	300	360			798 1050 1237	1978 2032 2001	90.7 92.5 93.0	675 720 800	9.6 9.6 9.6	390 390 390	7.5 7.5 7.5	1350 1350 1350	7.5 7.5 7.5	1350 1350 1350			
04																		
05																		
06																		

* 电机效率包括励磁功率

efficiency including excitation loss



型号 Type	主要尺寸 Main dimensions										底脚尺寸 Foot dimensions						轴伸尺寸 Shaft extension dimensions				冷却器尺寸 Cooler dimensions				
	H	L	C	AC	HD	LA	AD	A	B	K	HA	AB	BA	BC	D	E	F	G	GD	CE	HV	AE			
Z2355-2	1515	1515	254	800	720	1747	630	610	900	28	35	700	1210	120	280	320	124	110	210	28	100	16	400	1670	700
Z2355-3	355	1615	1715	254	800	1847	1947		1000				1310		1430										
Z2355-4																									
Z2355-5	1835																								
Z400-1	1560	1560	280	900	810	1822	670	686	1000	35	30	790	1380	115	280	380	95	120	210	32	109	18	390	1820	790
Z400-2	1660	1760																							
Z400-3	400	400																							
Z400-4	1880																								
Z450-1	1775																								
Z450-2	1875	315	1000	910	2107	1987	725	800	1120	35	40	890	1434	120	340	360	93	140	250	36	128	20	380	1940	890
Z450-3	450	1995																							
Z450-4	2125																								
Z500-1	1860																								
Z500-2	1980	280	1070	1010	2855	1815	900	1120	1250	42	45	1090	1465	180	320	350	105	160	300	40	147	22	390	2040	1090
Z500-3	500	2110																							
Z500-4	2260																								
Z560-2	2040																								
Z560-3	560	2170	315	1180	1120	2284	870	1000	1250	48	50	1400	1785	200	300	350	130	180	300	45	165	25	450	2190	1195
Z560-4	2320																								
Z560-5	2520																								
Z630-2	2260																								
Z630-3	2390	355	1370	1255	2480	940	1180	1250	1400	48	45	1370	1820	200	480	540	145	220	280	50	203	28	480	2350	1350
Z630-4	2540																								
Z630-5	2740																								
Z710-1	2450																								
Z710-2	2580	355	1540	1430	2390	1020	1400	1250	1400	56	60	1540	2220	170	460	530	145	250	410	56	230	32	430	2900	1540
Z710-3	710	2730																							
Z710-4	2930																								