

Y-H 系列

船用三相异步电动机

Y-H Series Three-phase marine motors

Y-H系列船用三相异步电动机

Y-H SERIES THREE PHASE MARINE MOTOR

前言

Y—H 系列为全封闭，自扇冷式，船用三相笼式异步电动机，适用于船舶上作驱动各种机械，如泵类、通风机、分离器、液压机械及其它辅助设备等等之用。

Y—H 系列是按照国际电工委员会标准 IEC60034-1《旋转电机 定额和性能》和现行的《钢质海船入级与建筑规范》设计的。

电动机也符合以下标准和规范的有关要求。

IEC60034	旋转电机
IEC60068	环境试验
IEC60072	旋转电机的尺寸及功率等级
IEC60092	船用电器设备

电动机还符合下列船级社规范的部分要求。

LR	英国劳氏船级社
GL	德国劳氏船级社
NK	日本海事协会（日本船级社）

Introduction

Y—H Series are totally-enclosed, fan-cooled three-phase marine motors of the squirrel-cage type. The motors are suitable for driving various machines on ships such as pumps, blowers, separators, hydraulic engines and other auxiliary equipment.

The motors are designed accordance with National Standard GB755 “Rotating electrical machines-Rating and performance” and the existing “Rules for the construction of sea-going steel ships.”

The motors also comply with the relevant requirements of the following standards and specifications.

IEC60034	Rotating electrical machines
IEC60068	Basic environmental testing procedures
IEC60072	Dimensions and output ratings for rotating electrical machines
IEC60092	Electrical installation in ships

The motors are also in conformity with part of the specifications of the following Ships Classification Societies.

LR	Lloyd’ s Register of Shipping
GL	Germanischer Lloyd
NK	Nippon Kaiji Kyokai

结构简介

- * 防护等级 IP44
- * 机座、端盖和轴承盖

材料采用灰铸铁 HT200（GB/T9437），机座表面铸有轴向散热筋，能增加冷却效果。

- * 轴伸

电动机一般只有一个圆柱形轴伸；根据用户要求，B3 及 B35 型的电动机可制成两个轴伸。第二轴伸仅能用联轴器传递额定功率。转轴材料采用 45 号优质钢（GB/T699）。

* 接线盒

从主轴伸端视之，电动机的接线盒位于机座右侧。若接线盒要装在左侧，则必须在订货时加以说明。接线盒内有六个接线柱，接线盒盖内有接线图，接线标志全部符合 IEC60034-8 的规定。两个相邻导电零件的间隙不小于 8 毫米；所有漏电距离不小于 12 毫米。接线盒内另有一个供接地用的接线柱。

* 轴承

本系列电动机用的轴承型号和规格见表 1。

Construction

* Protection IP44

* Frame, end shield and bearing cap

All made of Grey cast iron HT200 (GB/T9437) and the outer surface of the frame is provided with longitudinal cooling ribs to increase cooling effects.

* Shaft extension

Standard motors have a cylindrical shaft extension. Motors of B3 and B35 type with two shaft extensions are afforded on request, but the second shaft extension can only transmit rated output with direct coupling. The shaft is made of high grade steel No 45 (GB/T699).

* Terminal Box

The terminal box is arranged at the “right hand side” when looking at the driving end. If the terminal box is to be arranged at the left-hand side, this fact must be specifically stated when placing the order.

Six terminal studs are provided in the terminal box and a connecting diagram is shown on the back of the cover. Terminal markings used are in full conformity with IEC publication 34-8. Clearance between two neighboring conducting parts is made not less than 8mm and all creepages not less than 12mm.

An extra terminal is provided inside the box for grounding purpose.

* Bearing

The type and size of bearings used in these motors are given in table 1.

型号说明

电动机的型号由字母和数字组成。

Type Designation

The type designation consists of several letters and digits.

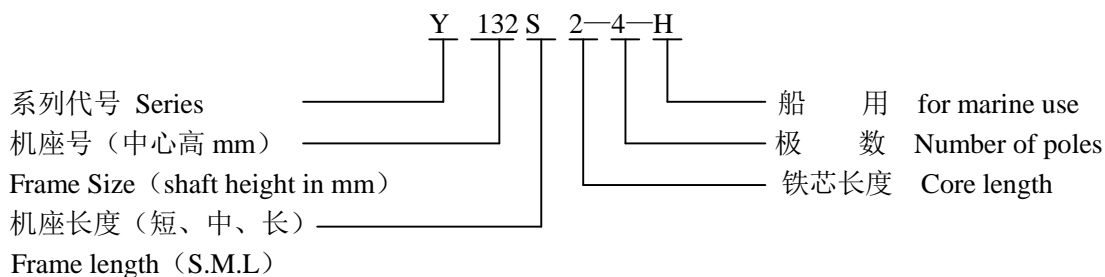


表 1

Table 1

机座号 Frame Size	极数 No. of Poles	轴 承 Bearings		
		主轴伸端 Driving end		非轴伸端 Non-Driving end
		B3、B5、B35	V1	
80	2, 4	6204-2RS/Z2		6204-2RS/Z2
90	2, 4, 6	6205-2RS/Z2		6205-2RS/Z2
100	2, 4, 6	6206-2RS/Z2		6206-2RS/Z2
112	2, 4, 6, 8	6306-2RS/Z2		6306-2RS/Z2
132	2, 4, 6, 8	6308-2RS/Z2		6308-2RS/Z2
160	2, 4, 6, 8	6309/Z2	7309ACJ	6309/Z2
180	2, 4, 6, 8	6311/Z2	7311ACJ	6311/Z2
200	2, 4, 6, 8	6312/Z2	7312ACJ	6312/Z2
225	2, 4, 6, 8	6313/Z2	7313ACJ	6313/Z2
250	2, 4, 6, 8	6314/Z2	7314ACJ	6314/Z2
280	2/4, 6, 8	6314/Z2/6317/Z2	7314ACJ/7317ACJ	6314/Z2/6317/Z2
315	2/4, 6, 8	6317/Z2/6319/Z2	7317ACJ/7319ACJ	6317/Z2/6319/Z2
355	2/4, 6, 8	6319/Z2/6322/Z2	7319ACJ/7322ACJ	6319/Z2/6322/Z2
400	4,6	N324Z2	7322ACJ	6324Z1

功率范围

本系列电动机的功率范围从 0.55~450 千瓦，机座号与功率的关系见表 2。

Output

The output of the motors ranges from 0.55 to 315kW. Table 2 shows the relations between frame size and output:

表 2

Table 2

机座号 Frame size	功 率 (千 瓦) Output (kW)			
	2 极 2-poles	4 极 4-poles	6 极 6-poles	8 极 8-poles
80 ₁	0.75	0.55	—	—
80 ₂	1.1	0.75		
90S	1.5	1.1	0.75	—
90L	2.2	1.5	1.1	—
100L ₁	3	2.2	1.5	—
100L ₂		3		
112M	4	4	2.2	—
132S ₁	5.5	5.5	3	2.2
132S ₂	7.5			
132M ₁	—	7.5	4	3
132M ₂			5.5	
160M ₁	11	11	7.5	4
160M ₂	15			5.5
160L	18.5	15	11	7.5
180M	22	18.5	—	—
180L	—	22	15	11
200L ₁	30	30	18.5	15
200L ₂	37		22	
225S	—	37	—	18.5
225M	45	45	30	22
250M	55	55	37	30
280S	75	75	45	37
280M	90	90	55	45
315S	110	110	75	55
315M	132	132	90	75
315L ₁	160	160	110	90
315L ₂	200	200	132	110
355M ₁	250	250	160	132
355M ₂	250	250	200	160
355L ₁	315	315	250	200
355L ₂	—	350	280	—
400M ₁	—	400	315	—
400M ₂	—	450	—	—

工作条件

环境空气温度	0°C~45°C
海拔	0m
空气相对湿度	≤95%
凝露	有
盐雾	有
油雾	有
霉菌	有
冲击	有
振动	有
倾斜摇摆	±22.5°

Operating Conditions

Temperature of Ambient air	0°C~45°C
Altitude	0m
Relative humidity	≤95%
Dew	exists
Salt mist	exists
Oil mist	exists
Fungus	exists
Shock	exists
Vibration	exists
Inclination and swing	±22.5°

电压、频率

额定电压	380V 或 440V
额定频率	50Hz 或 60Hz

Voltage and Frequency

Rated Voltage	380V or 440V
Rated Frequency	50Hz or 60Hz

接法

3 千瓦及以下者	Y
大于 3 千瓦者	△

Connection

3kW or Less	Y
more than 3kW	△

工作方式

连续工作制 (S1)

Duty Type

Continuous

绝缘、温升

绝缘	B 级或 F 级
绕组温升 (电阻法)	75K 或 100K
轴承允许温度 (温度计法)	90°C

Insulation, Temperature Rise

Insulation	B or F
Temp. Rise of winding (resistance method)	75K or 100K
Permissible working temp. of bearing (thermometer method)	90°C

起动方式

采用满压直接起动, 在空载或轻载时, 允许采用降压起动。

Type of starting

Direct on full-voltage starting for all sizes; reduced voltage starting allowable at no-load or light load.

传动方式

电动机可用皮带轮, 正齿轮或弹性联轴器传动。

Driving Method

Pulley, spur or flexible coupling can be used for driving.

噪声

电动机在空载运转时的噪声限值如表 3 所示。

Noise

The noise limits (L_w) of the motors measured at the no-load conditions are given in Table3.

振动

电动机在空载时测得的振动烈度 (有效值) 不超过表 4 的数值。

Vibration

The effective values of vibration velocity, measured at the no-load conditions, does not exceed those given in table 4.

表 3 Table 3

功率 kW	同步转速 r/min				
	3600	3000	1500、 1800	1000、 1200	750、 900
	声功率级 dB (A)				
0.55	—	—	67	—	—
0.75	75	71	67	65	—
1.1	75	71	67	65	—
1.5	79	75	67	67	—
2.2	79	75	70	67	66
3	81	79	70	71	66
4	81	79	74	71	69
5.5	85	83	78	71	69
7.5	85	83	78	75	72
11	87	87	82	75	72
15	87	87	82	78	75
18.5	87	87	82	78	75
22	92	92	82	78	75
30	95	95	84	81	78
37	95	95	84	81	78
45	97	97	84	84	78
55	97	97	86	84	81
75	99	99	92	90	87
90	99	99	92	90	87
110	104	104	98	92	87
132	105	104	101	92	99
160	105	104	101	102	99
200	105	104	101	102	99
250	113	111	108	105	—
315	113	111	108	—	—
350	115	113	111	111	105
400	115	113	111	111	108

安装结构型式

电动机各机座号所具有的安装结构型式如表 5 所示。

- B3 卧式，底脚安装
- B5 卧式，凸缘安装
- B35 卧式，底脚和凸缘安装
- V1 立式，凸缘安装

Mounting Arrangements

Mounting arrangements available for various frame sizes are shown in table 5.

- B3 Horizontal, foot-mounted
- B5 Horizontal flange-mounted
- B35 Horizontal, foot and flange mounted
- V1 Vertical, flange mounted

表 5 Table 5

表 4

Table 4

机座号 Frame Size	80~132	160~225	250~355	400 及以上
振动烈度 (有效值) (毫米/秒) Vibration Velocity (mm/s)	1.8	2.8	3.5	4.5

机座号 Frame Size	安装结构型式 (IM) Mounting Arrangements (IM)
80~225	B3, B5, B35, V1
250~400	B3, B35, V1

浸渍和表面处理

电动机的绕组和金属零件的表面均按照湿热电机的要求，经过特殊浸渍和处理，具有良好的防潮、防霉和抗盐雾的性能。

Impregnation and Surface Treatment

The motor windings impregnated and well treated to obtain the adequate damp-proof, anti-fungus and anti-salt-mist properties in accordance with the specifications for humid-tropic machines.

技术数据

不同极数的电动机的技术数据如表 6 至表 9 所示。

Technical Data

Technical data for motors of different synchronous speed are given in table 6~9.

安装及外形尺寸

各种安装结构型式的安装及外形尺寸分别见图 1 至 4 图及表 10 至表 13。

Mounting and Overall Dimensions

Mounting and overall dimensions for motors of various mounting arrangements are shown respectively by fig.1~4 and table 10~13.

表 6 Table 6

2 极 2-Pole

型 号 Type	功 率 Rated output		电 流 Rated current (A)		转 速 Rated speed (r/min)		堵转转矩 额定转矩 Locked-rotor torque Rated torque		最大转矩 额定转矩 Maximum torque Rated torque		堵转视在功率 额定功率 Locked rotor apparent power Rated output		效 率 Efficiency (%)		功率因数 Power factor		重 量 (kg)			
	kW	HP	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V				
Y80 ½ -2-H	0.75	1	1.8	1.6	2820	3460	1.9	2.1	13	75.0	76.5	0.84	0.82	17						
	1.1	1.5	2.6	2.2	2820	3460				76.5	77.5	0.85	0.85	19						
Y90S-2-H	1.5	2	3.5	3.1	2840	3470				79.5	80.0	0.82	0.80	23						
Y90L-2-H	2.2	3	4.9	4.3	2840	3470				82.5	83.5	0.83	0.81	26						
Y100L-2-H	3	4	6.2	5.4	2880	3490				84.0	84.0	0.87	0.86	33						
Y112M-2-H	4	5.5	8.2	7.2	2890	3500				86.5	87.0	0.86	0.84	46						
Y132S ½ -2-H	5.5	7.5	11	9.6	2900	3520				1.5	2.0	12	86.5	86.0	0.88	0.87	78			
	7.5	10	14.6	12.9	2900	3520							87.5	87.0	0.89	0.88	90			
Y160M ½ -2-H	11	15	21.6	18.7	2930	3540							1.8	2.0	12	89.0	88.5	0.87	0.87	120
	15	20	28.9	25.1	2930	3540										89.0	90.0	0.88	0.88	135
Y160L-2-H	18.5	25	35.7	30.3	2940	3550	89.5	90.0	0.88							0.89	160			
Y180M-2-H	22	30	42.2	36.9	2955	3560	89.5	89.0	0.88							0.88	180			
Y200L ½ -2-H	30	40	57.9	50.3	2960	3560	1.7	1.8	11							89.5	89.0	0.88	0.88	215
	37	50	69.4	60.3	2960	3570										92.0	91.5	0.88	0.88	245
Y225M-2-H	45	60	85.9	76.3	2970	3580										90.5	90.5	0.88	0.86	330
Y250M-2-H	55	75	103.2	91.7	2970	3580										92.0	90.5	0.88	0.87	400
Y280S-2-H	75	100	139.2	120.9	2970	3580				92.0	91.5	0.89				0.89	535			
Y280M-2-H	90	125	167.1	143.5	2970	3580				93.0	92.5	0.88				0.89	550			
Y315S-2-H	110	150	203.01	180.24	2970	3580				1.4	1.8	10	92.5	91	0.89	0.88	980			
Y315M-2-H	132	175	242.30	215.11	2970	3580							93.0	91.5	0.89	0.88	1080			
Y315L ½ -2-H	160	220	292.13	259.32	2970	3580							93.5	92	0.89	0.88	1160			
	200	270	365.16	324.15	2970	3580							93.5	92	0.89	0.88	1260			
Y355M-2-H	250	350	451.38	400.63	2970	3580	1.1	1.9	10				93.5	92	0.90	0.89	1600			
Y355L-2-H	315	422	565.71	502.07	2970	3580							94.0	92.5	0.90	0.89	1800			

表 7 Table 7

4 极 4-Pole

型 号 Type	功 率 Rated output		电 流 Rated current (A)		转 速 Rated speed (r/min)		堵转转矩 额定转矩 Locked-rotor torque Rated torque		最大转矩 额定转矩 Maximum torque Rated torque		堵转视在功率 额定功率 Locked rotor apparent power Rated output		效 率 Efficiency (%)		功率因数 Power factor		重 量 (kg)
	kW	HP	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V	
Y80L 1/2 -4-H	0.55	0.7	1.5	1.4	1390	1710	2.0		2.1	13	72.5	74.0	0.75	0.71	17		
	0.75	1	2.1	1.8	1390	1710	1.9				74.0	76.0	0.75	0.72	19		
Y90S-4-H	1.1	1.5	2.7	2.4	1400	1710	1.9				78.0	79.0	0.78	0.75	23		
Y90L-4-H	1.5	2	3.6	3.2	1400	1710	1.9				79.0	80.5	0.80	0.77	26		
Y100L 1/2 -4-H	2.2	3	5.0	4.5	1420	1730	1.9				81.5	82.5	0.81	0.78	36		
	3	4	6.8	5.9	1420	1730	1.8				83.0	85.0	0.81	0.78	39		
Y112M-4-H	4	5.5	8.9	7.7	1440	1750	1.8				84.5	86.0	0.81	0.79	47		
Y132S-4-H	5.5	7.5	11.7	10	1440	1750	1.8				86.0	88.0	0.83	0.82	78		
Y132M-4-H	7.5	10	15.4	13.2	1440	1750	1.8				87.0	88.5	0.85	0.84	98		
Y160M-4-H	11	15	22.6	19.5	1460	1760	1.8				88.5	89.0	0.83	0.83	123		
Y160L-4-H	15	20	30.5	26.3	1460	1760	1.8				89.0	90.0	0.84	0.83	152		
Y180M-4-H	18.5	25	35.9	30.8	1470	1770	1.7				91.0	91.5	0.86	0.86	180		
Y180L-4-H	22	30	42.2	36.9	1470	1770	1.7				91.0	91.0	0.87	0.86	200		
Y200L-4-H	30	40	57.3	49.8	1480	1780	1.7		91.5	92.0	0.87	0.86	260				
Y225S-4-H	37	50	70.2	60.3	1480	1780	1.7		92.0	92.5	0.87	0.87	321				
Y225M-4-H	45	60	84.0	73.4	1480	1780	1.7		92.5	92.5	0.88	0.87	355				
Y250M-4-H	55	75	103.8	88.7	1480	1780	1.6		92.5	92.5	0.88	0.88	417				
Y280S-4-H	75	100	139.2	120	1480	1790	1.6		93.0	92.5	0.88	0.88	550				
Y280M-4-H	90	125	164.3	141.9	1480	1790	1.4		93.5	93.5	0.89	0.89	650				
Y315S-4-H	110	150	200.84	177.32	1480	1790	1.4		93.5	92.5	0.89	0.88	1000				
Y315M-4-H	132	175	239.72	211.64	1480	1790	1.4		94.0	93	0.89	0.88	1100				
Y315L 1/2 -4-H	160	220	289.04	255.16	1480	1790	1.4		94.5	93.5	0.89	0.88	1160				
	200	270	361.30	318.95	1480	1790	1.2		94.5	93.5	0.89	0.88	1260				
Y355M-4-H	250	350	464.46	410.15	1480	1790	1.2		94.0	93	0.87	0.86	1600				
Y355L 1/2 -4-H	315	422	582.12	514.03	1480	1790	1.2		94.5	93.5	0.87	0.86	1800				
	350	466	662.3	571.1	1480	1790	1.2		94.5	93.5	0.9	0.87	2000				
Y400M 1/2 -4-H	400	533	740.2	639.1	1480	1790	1.2		95.2	94.2	0.91	0.87	2600				
	450	600	801.04	691.8	1480	1790	1.2		95.5	94.5	0.9	0.87	2650				

表 8 Table 8

6 极 6-Pole

型 号 Type	功 率 Rated output		电 流 Rated current (A)		转 速 Rated speed (r/min)		堵转转矩 额定转矩 Locked-rotor torque Rated torque		最大转矩 额定转矩 Maximum torque Rated torque		堵转视在功率 额定功率 Locked rotor apparent power Rated output		效 率 Efficiency (%)		功率因数 Power factor		重 量 (kg)
	kW	HP	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	
			380V	440V	380V	440V	380V	440V	380V	440V	380V	440V	380V	440V	380V	440V	
Y90S-6-H	0.75	1.	2.2	2.0	910	1130	1.8	2.0	13	72.5	74.0	0.70	0.67	20			
Y90L-6-H	1.1	1.5	3.2	2.9	910	1130				72.5	74.0	0.71	0.68	24			
Y100L-6-H	1.5	2	4.0	3.5	940	1150				77.5	79.5	0.73	0.70	33			
Y112M-6-H	2.2	3	5.8	5.2	940	1150				79.5	82.0	0.72	0.68	47			
Y132S-6-H	3	4	7.2	6.4	960	1170				83.5	83.5	0.76	0.74	66			
Y132M ½ -6-H	4	5.5	9.5	8.2	960	1170				84.0	86.0	0.76	0.74	80			
	5.5	7.5	12.5	10.7	960	1170	86.0	87.5	0.78	0.77	90						
Y160M-6-H	7.5	10	17.1	14.8	970	1170	1.7	1.9	12	87.5	88.5	0.76	0.75	100			
Y160L-6-H	11	15	25.0	21.7	970	1170				88.0	88.5	0.76	0.75	125			
Y180L-6-H	15	20	33.0	29.3	970	1180				88.5	88.5	0.78	0.76	195			
Y200L ½ -6-H	18.5	25	37.6	32.7	980	1180				90.0	90.5	0.83	0.82	225			
	22	30	44.7	38.9	980	1180				90.0	90.5	0.83	0.82	275			
Y225M-6-H	30	40	61.1	53.1	990	1190	1.5	1.8	11	91.0	91.5	0.82	0.81	325			
Y250M-6-H	37	50	71.0	61.3	980	1180				91.0	91.0	0.87	0.87	430			
Y280S-6-H	45	60	86.4	74.6	980	1190				92.0	92.0	0.86	0.85	505			
Y280M-6-H	55	75	103.2	89.7	980	1190				92.0	92.5	0.88	0.87	540			
Y315S-6-H	75	100	141.14	123.98	980	1190	1.2	1.7	10	92.8	92.3	0.87	0.86	990			
Y315M-6-H	90	125	168.64	148.13	980	1190				93.2	92.7	0.87	0.86	1080			
Y315L ½ -6-H	110	150	205.46	180.47	980	1190				93.5	93	0.87	0.86	1150			
	132	175	245.76	215.86	980	1190	93.8	93.3	0.87	0.86	1210						
Y355M ½ -6-H	160	220	302.00	265.30	980	1190	1.1	1.8	10	93.6	93.1	0.87	0.85	1500			
	200	270	376.69	330.91	980	1190				93.8	93.3	0.86	0.85	1700			
Y355L ½ -6-H	250	350	468.86	411.88	980	1190				94.2	93.7	0.86	0.85	1900			
	280	373	537.88	464.53	980	1190				93.7	93.2	0.85	0.84	2100			
Y400M-6-H	315	420	576.49	497.88	980	1190				95	94.5	0.88	0.87	2600			

表 9 Table 9

8 极 8-Pole

型 号 Type	功 率 Rated output		电 流 Rated current (A)		转 速 Rated speed (r/min)		堵转转矩 额定转矩 Locked-rotor torque Rated torque		最大转矩 额定转矩 Maximum torque Rated torque		堵转视在功 额定功率 Locked rotor apparent power Rated output		效 率 Efficiency (%)		功率因数 Power factor		重量 (kg)
	kW	HP	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V	50Hz 380V	60Hz 440V	
Y132S-8-H	2.2	3.0	5.8	5.2	710	860	1.7	1.9	13	80.0	81.0	0.72	0.68	66			
Y132M-8-H	3.0	4.0	7.6	6.8	710	860				82.5	83.5	0.73	0.69	80			
Y160M $\frac{1}{2}$ -8-H	4.0	5.5	10.5	9.1	720	870				84.0	86.0	0.69	0.67	92			
	5.5	7.5	13.4	11.5	720	870				85.5	87.0	0.73	0.72	105			
Y160L-8-H	7.5	10	17.7	15.5	720	870	1.5	1.8	12	86.0	87.0	0.75	0.73	130			
Y180L-8-H	11	15	25.6	22.2	730	880				87.0	88.0	0.75	0.74	175			
Y200L-8-H	15	20	33.3	29.2	730	880				89.0	90.0	0.77	0.75	255			
Y225S-8-H	18.5	25	40.3	35.6	740	890				90.5	91.0	0.77	0.75	300			
Y225M-8-H	22	30	47.4	41.7	730	890			90.5	91.0	0.78	0.76	320				
Y250M-8-H	30	40	64.7	57.1	740	890			11	91.5	92.0	0.77	0.75	420			
Y280S-8-H	37	50	79.8	68.9	740	890				91.5	91.5	0.77	0.77	515			
Y280M-8-H	45	60	94.8	80.8	740	890				92.5	92.5	0.78	0.79	550			
Y315S-8-H	55	75	113.54	98.59	740	890				92.0	91.5	0.80	0.80	1000			
Y315M-8-H	75	100	152.09	132.06	740	890				92.5	92.0	0.81	0.81	1100			
Y315L $\frac{1}{2}$ -8-H	90	125	179.31	155.69	740	890	93.0	92.5		0.82	0.82	1160					
	110	150	218.45	189.63	740	890	93.3	92.8	0.82	0.82	1230						
Y355M $\frac{1}{2}$ -8-H	132	175	264.8	229.93	740	890	1.1	1.8	10	93.5	93.0	0.81	0.81	1500			
	160	220	320.30	278.10	740	890				93.7	93.2	0.81	0.81	1600			
Y355L-8-H	200	270	399.09	346.51	740	890				94.0	93.5	0.81	0.81	1800			

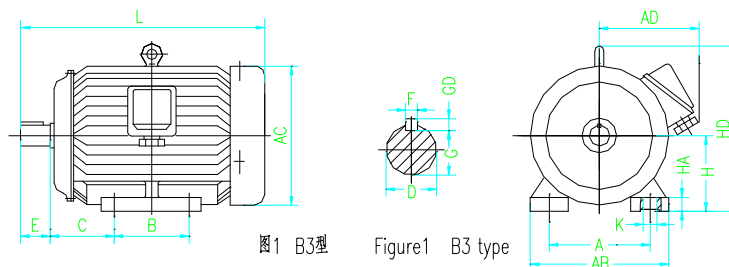


图1 B3型

Figure1 B3 type

表 10

Table 10

毫米

mm

机座号 Frame size	安 装 及 外 形 尺 寸										Mounting and overall dimensions					
	A	B	C	D	E	F	G	GD	H	K	AB	AC	AD	HA	HD	L
80	125	100	50	19	40	6	15.5	6	80	10	165	165	160	12	205	290
90S	140		56	24	50	8	20	7	90		180	180	175	14	225	320
90L		125	63	28	60		24		100	12	350					
100L	160	70				205		205			185	16	250	385		
112M	190	140	89	38	80	10	33	8	132	12	245	230	195	18	270	405
132S	216		178	108	42	110	12	37	160		480					
160M		254	254							330	325	270	22	385	605	
160L	279	241	121	48	140	14	42.5	9	180	15	355	360	290	24	425	670
180M		279	16	49		10	200	395	400		355	28	475	780		
200L	318	305	133	55	110/140	16	49	10	225	19	435	450	370	30	530	825
225S	356	286	149	55/60		16/18	49/53	10/11	225		820/850					
225M		311	168	60/65	140	18	53/58	11	250	24	490	495	455	32	570	935
250M	406	349				18/20	58/67.5	11/12	280		550	550	470	38	640	1020
280S	457	368	190	65/75	170	18/22	58/71	11/14	315	28	744	645	576	51	865	1070
280M		419	1270													
315S	508	406	216	65/80	170	18/22	58/71	11/14	315	28	744	645	576	51	865	1340
315M		457														254
315L			560	630												
355M	610	560	254	75/95	170	18/22	58/71	11/14	315	28	744	645	576	51	865	1340
355L		630														
400M	686	710	280	90/110	210	22/28	81/100	13/14	400	36	806	—	785	55	1078	1950

注：表格内分数的分子为2极电动机数据，分数为2极以外的电动机数据。

Note : The numerators of fractions in the table give the data of 2-pole motors and the denominators of fractions the data motors more than 2-pole.

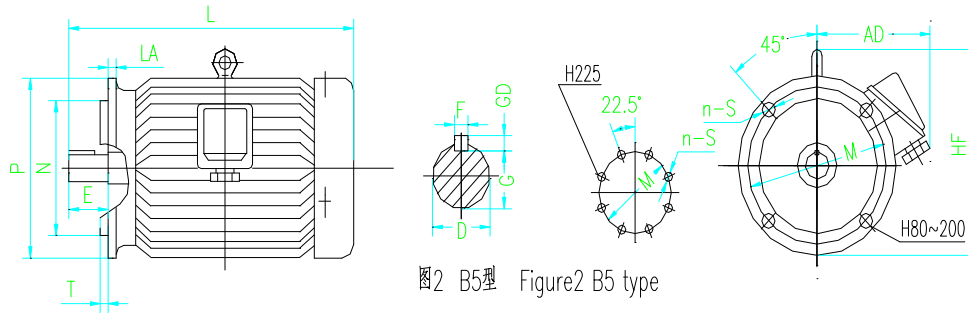


图2 B5型 Figure2 B5 type

表 11

Table 11

毫米

mm

机座号 Frame size	安装及外形尺寸 Mounting and overall dimensions										螺栓孔数 No. of fixing holes	AC	AD	HF	LA	L	
	D	E	F	G	GD	M	N	P	S	T							
80	19	40	6	15.5	6	165	130	200	12	3.5	4	165	160	230	12	290	
90S	24	50	8	20	7							215	180	250		15	4
90L						205	185	275	345								
100L	28	60	10	24	8	265	230	300	19	5		230	195	285	18	405	
112M												270	245	340		480	
132S	38	80	12	33	9	300	250	350	19	5		325	270	400	20	520	
132M												360	290	420		605	
160M	42	110	14	37	10	350	300	400	19	5		360	290	420	18	650	
160L												400	355	470		705	
180M	48	110	16	42.5	9	350	300	400	19	5		400	355	470	20	780	
180L											450	370	530	825			
200L	55	110/140	16/18	49	10	400	350	450	19	5	8	450	370	530	20	825	
225S	820/850																
225M	55/60	110/140	16/18	49/53	10/11	400	350	450	19	5	8	450	370	530	20	820/850	

注：表格内分数的分子为 2 极电动机数据，分母为 2 极以外的电动机数据。

Note : The numerators of fractions in the table give the data of 2-pole motors and the denominators of fractions the data motors more than 2-pole.

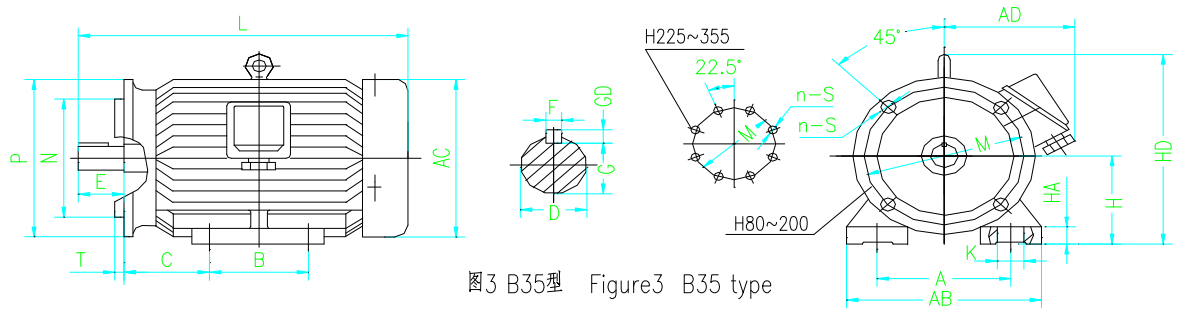


图3 B35型 Figure3 B35 type

表 12

Table 12

毫米

mm

机座号 Frame size	安 装 及 外 形 尺 寸															Mounting and overall dimensions											
	A	B	C	D	E	F	G	GD	H	K	M	N	P	S	T	螺栓孔数 No. of fixing holes	AB	AC	AD	HA	HD	L					
80	125	100	50	19	40	6	15.5	6	80	10	165	130	200	12	3.5	4	165	165	160	12	205	290					
90S	140		56	24	50	8	20	7	90								15	215	180	250	15	4	180	180	175	14	225
90L	125	70	28	60	24				100														112	12	265	230	300
100L	160	140	63	28	60	10	33	8	132	15	300	250	350	19	5		245	230	195	18	270	405					
112M	190		70						89								38	80	10	33	8	132	265	230	300	19	5
132S	216	178	89	38	80	10	33	8	132	15	300	250	350	19	5		330	325	270	22	385	605					
132M	216								178								108	42	110	12	37	8	160	355	360	290	24
160M	254	210	121	48	110	14	42.5	9	180	19	400	350	450	19	5		395	400	355	28	475	780					
160L	254	254							149								55/60	110/140	16/18	49/53	10/11	225	400	350	450	19	5
180M	279	241	190	65/75	140	18	53/58	11	250	24	500	450	550	24	6		495	495	455	32	570	935					
180L	279	279							18/20							58/67.5	11/12	280	28	600	550	660	24	6	550	550	470
200L	318	305	168	65/80	170	18/22	58/71	11/14	315	28	600	550	660	24	6	744	645	576	51	865	1270						
225S	356	286	190						65/75							140	18/20	58/67.5	11/12	280	24	500	450	550	24	6	730
225M	356	311	216	75/95	170	20/25	67.5/86	12/14	355	36	940	880	1000	28	6	806	980	785	55	1078	1950						
250M	406	349	254						75/95							170	20/25	67.5/86	12/14	355	36	940	880	1000	28	6	806
280S	457	368	280	90/110	210	22/28	81/100	13/14	400	36	940	880	1000	28	6	806	980	785	55	1078	1950						
280M	457	419	280	90/110	210	22/28	81/100	13/14	400	36	940	880	1000	28	6	806	980	785	55	1078	1950						
315S		406	280	90/110	210	22/28	81/100	13/14	400	36	940	880	1000	28	6	806	980	785	55	1078	1950						
315M	508	457	280	90/110	210	22/28	81/100	13/14	400	36	940	880	1000	28	6	806	980	785	55	1078	1950						
315L	508	508	280	90/110	210	22/28	81/100	13/14	400	36	940	880	1000	28	6	806	980	785	55	1078	1950						
355M	610	560	280	90/110	210	22/28	81/100	13/14	400	36	940	880	1000	28	6	806	980	785	55	1078	1950						
355L	610	630	280	90/110	210	22/28	81/100	13/14	400	36	940	880	1000	28	6	806	980	785	55	1078	1950						
400M	686	710	280	90/110	210	22/28	81/100	13/14	400	36	940	880	1000	28	6	806	980	785	55	1078	1950						

注：表格内分数的分子为 2 极电动机数据，分母为 2 极以外的电动机数据。

Note : The numerators of fractions in the table give the data of 2-pole motors and the denominators of fractions the data motors more than 2-pole.

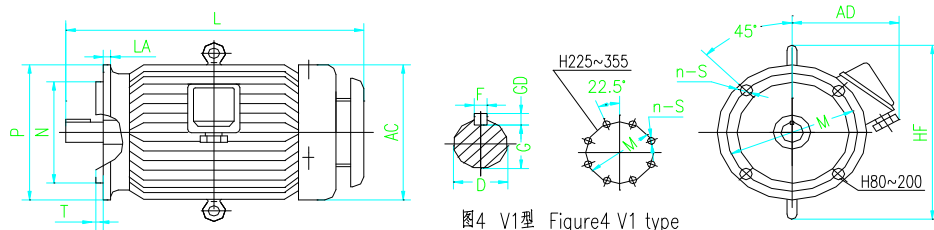


图4 V1型 Figure4 V1 type

表 13

Table 13

毫米

mm

机座号 Frame size	安 装 及 外 形 尺 寸										Mounting and overall dimensions						
	D	E	F	G	GD	M	N	P	S	T	螺栓孔数 No. of fixing holes	AC	AD	HF	LA	L	
80	19	40	6	15.5	6	165	130	200	12	3.5	4	165	165	260	12	335	
90S	24	50	8	20	7							180	180	270			
90L						28	60	24	215	180		250	15	4	205	195	300
100L	230	205	320	450													
112M	38	80	10	33	8	265	230	300	19	5		8	270	265	380	18	535
132S													42	110	12		
132M	48	14	42.5	9	350	300	400	360	290	490						660	
160M								55	140	16			49	10	400	450	400
160L	55/60	110/140	16/18	49/53	10/11	400	350										450
180M								60/65	140	18			53/58	11	500	450	
180L	65/75	170	18/20	58/67.5	11/12	600	550				660						550
200L								65/80	170	18/22			58/71	11/14	600	550	660
225S	75/95	210	20/25	67.5/86	12/14	740	680				800						
225M								90/110	210	22/28			81/100	13/14	940	880	1000
250M	980	785	55	35	1720												
280S	980	785	55	35	1720												
280M	980	785	55	35	1720												
315S	980	785	55	35	1720												
315M	980	785	55	35	1720												
315L	980	785	55	35	1720												
355M	980	785	55	35	1720												
355L	980	785	55	35	1720												
400M	980	785	55	35	1720												

注：表格内分数的分子为 2 极电动机数据，分母为 2 极以外的电动机数据。

Note : The numerators of fractions in the table give the data of 2-pole motors and the denominators of fractions the data motors more than 2-pole.

接线盒

电动机接线盒安装位置见图 5 及表 14:

Terminal box

The mounting dimensions of the terminal box are shown by fig 5 and table 14.

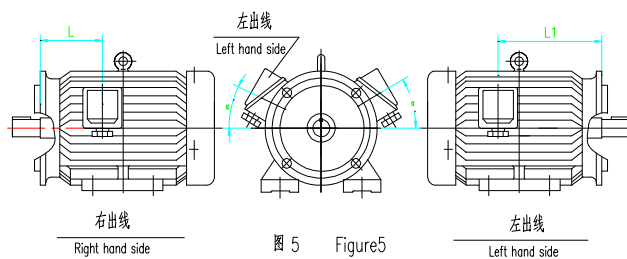


表 14

Table 14

机座号 Frame size	L mm	L1 mm	α	备注 Remark	机座号 Frame size	L mm	L1 mm	α	备注 Remark
Y80-H	102	102	25°	居中	Y200L-H	169	402	45°	
Y90S-H	106	106	25°	居中	Y225M-H	181	428	45°	
Y90L-H	123.5	123.5	25°	居中	Y250M-H	201.5	483.5	45°	
Y100L-H	133	133	25°	居中	Y280S-H	196	552	45°	
Y112M-H	140	140	25°	居中	Y280M-H	196	603	45°	
Y132S-H	159	159	25°	居中	Y315S-H	210	627	5°	
Y132M-H	178	178	25°	居中	Y315M-H	210	677	5°	
Y160M-H	158	268	20°		Y315L-H	210	737	5°	
Y160L-H	180	290	20°		Y355S-H	262	852	25°	
Y180M-H	156	327	20°		Y400M-H	336	1366	90°	
Y180L-H	260.5	260.5	20°	居中					

加热器

如客户需要电动机可安装表 15 规格的加热带。

Heater

Heater can be mounted in the motor upon agreement, which are shown by table15.

表 15 Table 15

机 座 号 Frame size	加 热 带 电 压	加 热 带 功 率
Y80~90-H	220 V	20 W
Y100~112-H	220 V	30 W
Y132~160-H	220 V	40 W
Y180~200-H	220 V	50 W
Y225~280-H	220 V	60 W
Y315~440-H	220 V	80 W

定货须知

1. 订货时请详细说明电动机的型号、功率、极数、电压、频率、安装结构型式和其他要求。
2. 如客户需要，经双方协议后，可供应下列特殊产品：
 - a. 双轴伸电动机。
 - b. 面对轴伸，接线盒在左侧的电动机。
 - c. 热敏电阻保护。

Ordering Information

1. When placing an order, please specify motor's type, output, number of poles, voltage, frequency, mounting, arrangements and other requirements.
2. Special orders of motors with following design variations can be accepted upon agreement:
 - a. Double shaft extension.
 - b. With terminal box on the left-hand side when looking at the driving end.
 - c. Thermistor protection.