

Jinbo Marine

Marine & Offshore Equipment Datasheet

PRODUCT DATASHEET

MARINE ELECTRIC MOTOR

YCTJ-H Series Fan-Closed Three Phase Induction Marine Motor

ISO9001 Supplier

Class Certificate

Export Supply

Introduction YCTJ-H series three phase induction motor can be totally enclosed.fan-closed three phase induction motor that can be used on marine .civil cooperating with marine .this series work as power supply for...



Key Highlights

Category	Marine Electric Motor
Standard	DIN
Weight / Size	Type designation Operating Conditions Temperature of Ambient air 0°C ~45°C...
Certificate	CCS/LR/DNV/KR

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.



Technical Specifications			
Category	Marine Electric Motor	Model / SKU	YCTJ-H-Series-Fan-Closed-Three-Phase-Induction-Marine-Motor
Standard	DIN	Weight / Size	Type designation Operating Conditions Temperature of Ambient air 0°C ~45°C Altitude 0M Relative humidity ≤ 95% Dew exists Oil mist exists Fungus exists Shock exists Vibration exists Inclination and swing ±22.5° Rated voltage and frequency 50HZ.380V or 60HZ.440V Connection Δ(Y) Duty type continuous (S1)or S2-30 type Insulation B or F Temperature rise of winding 75K or 100K Permissible working temperature of bearing 90°C (thermometer method) Type of starting Direct on full-voltage starting for all sizes;
Surface	5/86 740 680 800 750 680 1035 1675 355L 1675 400M FF940 90/110 210 22/28 81/100 940 880 1000 28 980 920 1010 1720 annotate : a) R is distance from fitting surface of flange to shaft shoulder.	Certificate	CCS/LR/DNV/KR
Warranty	12 Months unless specified otherwise	Origin	China

CONTENTS	<ul style="list-style-type: none"> ■ Introduction ■ Vibration and Noise ■ Frame Size ■ table 2 	<ul style="list-style-type: none"> ■ Operating Conditions ■ table 1 ■ The effective values of vibration velocity mm/s ■ output kW
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Introduction

YCTJ-H series three phase induction motor can be totally enclosed.fan-closed three phase induction motor that can be used on marine .civil cooperating with marine .this series work as power supply for warship. motor for side thruster radiator .This series has low strat current and high start torque,Every performance is better than any other motors which has same specification.The motors are completely according with the requirement of the following standards and specifications.

Type designation



Operating Conditions

Temperature of Ambient air 0°C ~45°C

Altitude 0M

Relative humidity $\leq 95\%$

Dew exists

Oil mist exists

Fungus exists

Shock exists

Vibration exists

Inclination and swing $\pm 22.5^\circ$

Rated voltage and frequency 50HZ.380V or 60HZ.440V

Connection $\Delta(Y)$

Duty type continuous (S1) or S2-30 type

Insulation B or F

Temperature rise of winding 75K or 100K

Permissible working temperature of bearing 90°C

(thermometer method)

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

Vibration and Noise

The effective values of vibration velocity, measured at the no-load conditions, does not exceed those given in table 1.

table 1

Frame Size	The effective values of vibration velocity mm/s
160~225	2.8
250~355	3.5
400 and above	4.5

The following table 2 is showed about the noise condition when the motor is no-load

table 2

output kW	Synchronous speed r/min					
	3600	3000	1500、 1800	1000、 1200	750、 900	600、 720
sound power level dB (A)						
4	—	—	—	—	69	—
5.5					69	
7.5				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	78	
30	95	95	84	81	78	
37	95	95	84	81	78	
45	97	97	84	84	78	87
55	97	97	86	84	81	87
75	99	99	92	90	87	87
90	99	99	92	90	87	92
110	104	104	98	92	87	92
132	105	104	101	92	99	92
160	105	104	101	102	99	97
200	105	104	101	102	99	97
250	113	111	108	105	101	99
315	113	111	108	108	105	101
355	115	113	111	111	105	101
400	115	113	111	111	108	—
450	116	113	111	111	—	
500	118	116	115	—		
560	118	116	115			

Technical Data

The protection of the frame size and the output are IP23 should cooperate with the table3, And the IP44 is cooperate with table4.

table3

frame size	number of poles				
	2	4	6	8	10
	power kW				
160M	15	11	7.5	5.5	—
160L1	18.5	15	11	7.5	
160L2	22	18.5	—	—	
180M	30	22	15	11	
180L	37	30	18.5	15	
200M	45	37	22	18.5	
200L	55	45	30	22	
225S	75	55	37	30	
225M	90	75	45	37	
250M	110	90	55	45	
280S	—	110	75	55	
280M	132	132	90	75	
315S	160	160	110	90	55
315M	200	200	132	110	75
315L	250	250	160	132	90
355M	315	315	200	160	110
355L	355	355	250	200	132
400M1	400	400	315	250	160
400M2	450	450	355		200
400L1	500	500	400	315	250
400L2	560	560	450	355	315

table4.

Frame Size	Number of poles					
	2	4	6	8	10	
	output kW					
160M1	11	11	7.5	4	—	
160M2	15			5.5		
160L	18.5	15	11	7.5		
180M	22	18.5	—	—		
180L	—	22	15	11		
200L1	30	30	18.5	15		
200L2	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		45
315M	132	132	90	75		55
315L1	160	160	110	90	75	
315L2	200	200	132	110	90	
355M1	250	250	160	132	110	
355M2			200	160	132	
355L	315	315	250	200	160	
400M1	355	355	280	220	200	
400M2	400	400	315	250		
400M3	450	450	—	—		

The mounting of this series is IMV1, mounting and overall dimension for motors of various mounting arrangements are shown respectively by figure below and table 5 ~ 6.

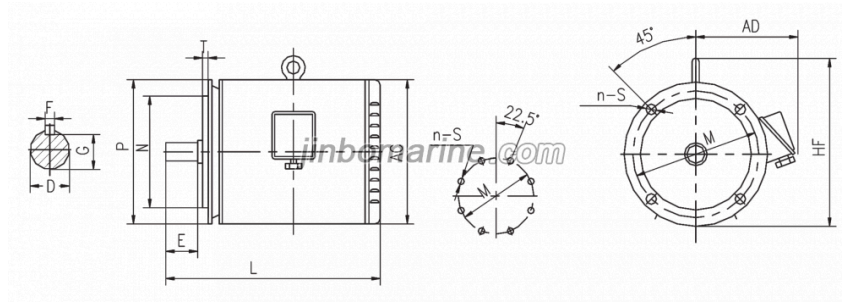


Table 5 The Motors that end shield existing flange but the frame without foot(IP23) unit:mm

Fr a m e S i z e	F l a n g e s i z e	Mounting dimension and tolerance											Overall dimension				
		D	E	F	G	M	N	P	R	S	T	n	AC	AD	HF	L	

160M	FF3 00	42	110	12	37	300	250	350	0	1 9	φ 1. 5 M	5.0	4	325	270	450	660						
160L																	705						
180M		48		14	42.5												360	290	490	730			
180L																				765			
200L	FF3 50	55		16	49	350	300	400						400	355	550	840						
225S	FF4 00	55/6 0	110/ 140	18	49/5 3	400	350	450					8	450	370	610	890						
225M																				865/ 915			
250M																	FF5 00	60/6 5	140		53/5 8	500	450
280S		65/7 5		18/2 0	58/6 7.5									550	470	720	109 0						
280M																							114 0
315S	FF6 00	65/8 0	170	18/2 2	58/7 1	600	550	660		2 4	φ 2. 0 M	6.0		645	576	900	139 0						
315M																							149 0
315L																							149 0
355M	FF7 40	75/9 5		22/2 5	67. 5/86	740	680	800						750	680	1035	167 5						
355L																							167 5
400M	FF9 40	90/1 10	210	22/2 8	81/1 00	940	880	100 0		2 8				980	920	1010	172 0						

annotate :

- a) R is distance from fitting surface of flange to shaft shoulder.
- b) Numerator is a data of two poles, Denominator is a data of more than four poles.

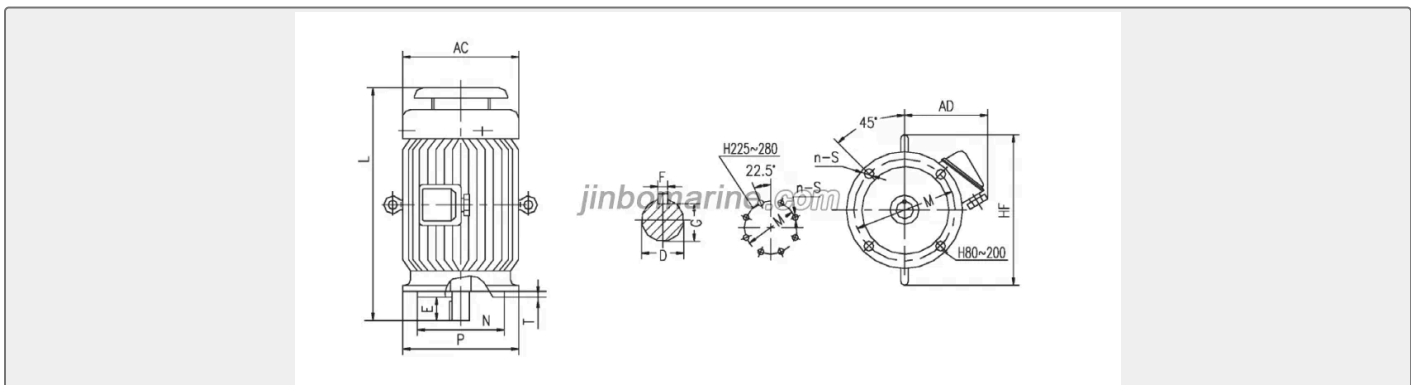


Table 6 The Motors that end shield existing flange but the frame without foot(IP44) unit:mm

Frame Size	Flange size	Mounting dimension and tolerance											Overall dimension								
		D	E	F	G	M	N	P	R	S	T	n	A C	A D	H F	L					
160M	FF300	42	110	12	37	300	250	350	0	19	φ1.5M	5.0	4	325	270	450	660				
160L		705																			
180M		48		14													42.5	360	290	490	730
180L				765																	
200L	FF350	55	16	49	350	300	400	400	355	550	840										
225S	FF400	55/60	110/140	18	49/53	400	350	450	8	450	370	610	890								
225M													865/915								
250M	FF500	60/65	140	53/58	500	450	550	495	455	640	995										
280S		65/75		18/20	58/67.5	550	470	720	1090												
280M				1140																	
315S	FF600	65/80	170	18/22	58/71	600	550	660	24	φ2.0M	6.0	645	576	900	1390						
315M															1490						
315L															1490						
355M															FF740	75/95	22/25	67.5/86	740	680	800
355L	1675																				
400M	FF940	90/110	210	22/28	81/100	940	880	1000	28	980	920	1010	1720								



annotate :

a) R is distance from fitting surface of flange to shaft shoulder.

b) Numerator is a data of two poles, Denominator is a data of more than four poles.