



# YUEMA

ELECTRIC MOTOR

## SERIES MOTORS

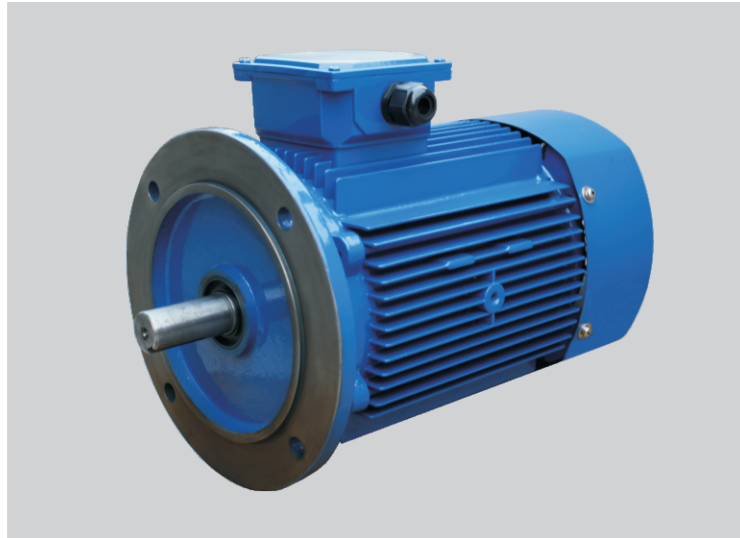
Main Characteristics / Typical Application

Operating Condition / Nomenclature

Mounting Arrangement / Technical Parameter



2015-2016



## 1. Main Characteristics

YNA Series motor(H63-355) is a kind of squirrel cage low-voltage three-phase asynchronous motor which is basic series for general use. This series can meet requirements for general use at home and abroad with national unified design. YNA series motors have the advantages of high efficiency, energy-saving, good performance, low noise, small vibration, high reliability, convenient maintenance and big breakaway torque. YNA series correspond to EFF2 standard, mounting dimensions and rated power are completely conform to IEC/DIN standards. it employs class F insulation, IP54/IP55 protection and IC411 cooling mode.

## 2. Typical Application

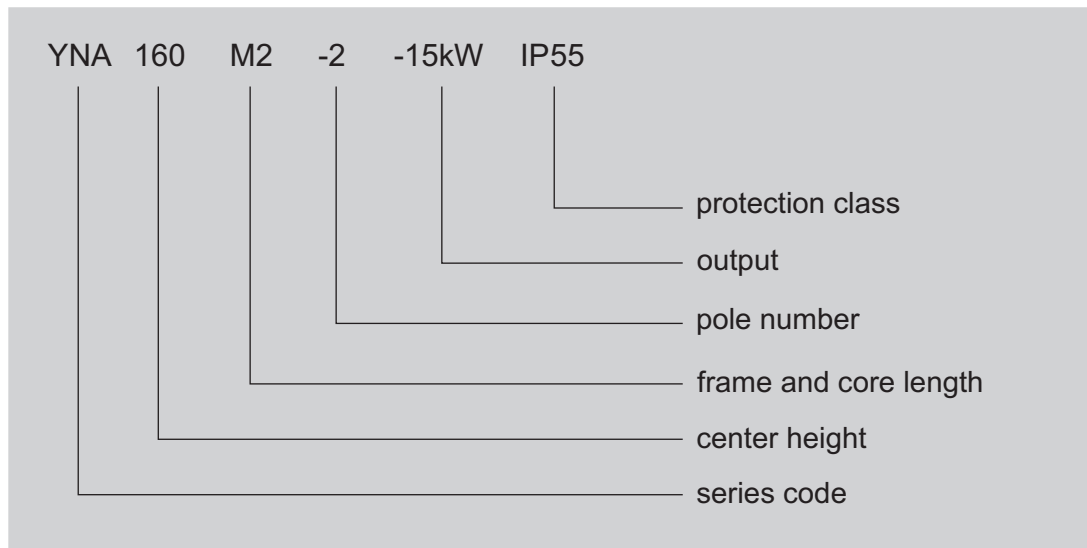
YNA series motor can used for driving different kinds of general machinery without special requirement, such as agricultural machinery, food machinery, blower, pump, gear box, reducer, Blender and air compressor etc.

## 3. Operating Condition

Ambient temperature : -15-40°C  
Altitude : not exceeding 1000m above sea level.  
Working Mode : S1(Continuous)  
Voltage : 380v  
Frequency : 50Hz(60HZ Special Request)  
Insulation Class : Class F, the temperature rise not exceed 80°C  
Protection class : IP54/IP55  
Cooling method : IC411  
Connection : Star-connection for 3Kw or less whereas delta-connection



## 4. Nomenclature



### Definition

YNA : YNA

YNA series squirrel cage three-phase asynchronous electric motor

YNA160M2-2-15KW 160mm, M2, 2 15KW

For Example : YNA160M2-2-15KW represent center height of the frame is 160mm, frame length is M, core length code 2,2 pole, 15KW.

## 5. Mounting Arrangement

Basic structure pattern	B3					
Installation pattern	B3	B6	B7	B8	V5	V6
Diagram						
Frame No.	80~355	80~160				

Basic structure pattern	B5			B35		
Installation pattern	B5	V1	V3	B35	V15	V36
Diagram						
Frame No.	80~225	80~355	80~160	80~355	80~160	



**6. Technical Parameter**

Type	Current (A)	Power		Speed (rpm)	Efficiency (%)	P.F (cosφ)	Locked Torque Rated Torque Tsn/Tn	Locked Current Rated Current Isn/In	Max Torquet Rated Torquet Tmax/Tn	Weight Kg					
		KW	HP												
<b>synchronous speed 3000rpm, 380V 50HZ 2P</b>															
YNA-63M1-2	0.35	0.18	1/4	2730	65	0.8	2.2	5.5	2.2	10					
YNA-63M2-2	0.69	0.25	1/3		68	0.81				11					
YNA-71M1-2	0.99	0.37	1/2	2760	70	0.81		6.1		14					
YNA-71M2-2	1.4	0.55	3/4		73	0.82			15						
YNA-80M1-2	1.8	0.75	1	2840	75	0.83		7.5	7.0	16					
YNA-80M2-2	2.5	1.1	1.5		76.2	0.84				17					
YNA-90S-2	3.4	1.5	2		78.5	0.84				22					
YNA-90L-2	4.9	2.2	3	81	0.85	25									
YNA-100L-2	6.3	3	4	2860	82.6	0.87			33						
YNA-112M-2	8.2	4	5.5	2880	84.2	0.88			40						
YNA-132S1-2	11.2	5.5	7.5	2900	85.7	0.88	2.3		2.5	59					
YNA-132S2-2	15.1	7.5	10		87	0.88				62					
YNA-160M1-2	21.3	11	15	2930	88.4	0.89				7.5	2.3	107			
YNA-160M2-2	28.8	15	20		89.4	0.89						117			
YNA-160L-2	34.7	18.5	25		90	0.9		134							
YNA-180M-2	41	22	30	2940	90.5	0.9		169							
YNA-200L1-2	55.4	30	40	2950	91.4	0.9		2.0				2.3	220		
YNA-200L2-2	67.9	37	50		92	0.9							239		
YNA-225M-2	82.1	45	60	2970	92.5	0.9							7.5	2.3	297
YNA2-250M-2	99.8	55	75		93	0.9									377
YNA-280S-2	135	75	100		93.6	0.9	510								
YNA-280M-2	160	90	125	93.9	0.91	540									
YNA-315S-2	195	110	150	2975	94	0.91	1.8		7.1	920					
YNA-315M-2	233	132	180		94.5	0.91				970					
YNA-315L1-2	279	160	215		94.6	0.92				1080					
YNA-315L2-2	348	200	270	94.8	0.92	1170									
YNA-355M1-2	420	220	300	2985	94.2	0.89		1.2		7.1	1800				
YNA-355M2-2	435	250	335		94.5	0.9					1900				
YNA-355L1-2	500	280	375		94.7	0.9					2200				
YNA-355L2-2	544	315	420		95	0.9					2300				



Type	Current (A)	Power		Speed (rpm)	Efficiency (%)	P.F (cosφ)	Locked Torque Rated Torque Tsn/Tn	Locked Current Rated Current Isn/In	Max Torquet Rated Torquet Tmax/Tn	Weight Kg
		KW	HP							
<b>synchronous speed 1500rpm, 380V 50HZ 4P</b>										
YNA-63M1-4	0.44	0.12	1/6	1310	57	0.72	2.1	4.4	2.2	11
YNA-63M2-4	0.62	0.18	1/4		60	0.73				11
YNA-71M1-4	0.79	0.25	1/3	1330	65	0.74	5.2			14
YNA-71M2-4	1.12	0.37	1/2		67	0.75				15
YNA-80M1-4	1.57	0.55	0.75	1380	71	0.75	2.4			17
YNA-80M2-4	2	0.75	1		73	0.76				18
YNA-90S-4	2.85	1.1	1.5	1390	76.2	0.77	6			22
YNA-90L-4	3.67	1.5	2		78.5	0.79				27
YNA-100L1-4	5.09	2.2	3	1410	81	0.81	2.3			34
YNA-100L2-4	6.8	3	4		82.6	0.82				38
YNA-112M-4	8.8	4	5.5	1430	84.2	0.82	7			44
YNA-132S-4	11.7	5.5	7.5	1440	85.7	0.83				2.3
YNA-132M-4	15.6	7.5	10			87	0.84		2.3	73
YNA-160M-4	22.3	11	15	1460	88.4	0.84				113
YNA-160L-4	30.1	15	20		89.4	0.85				133
YNA-180M-4	36.5	18.5	25	1470	90	0.86	7.5			167
YNA-180L-4	42.9	22	30		90.5	0.86				181
YNA-200L-4	57.6	30	40		91.4	0.86	2.2	7.2		232
YNA-225S-4	69.9	37	50		92	0.87				287
YNA-225M-4	84.7	45	60		92.5	0.87				322
YNA-250M-4	103	55	75		93	0.87				381
YNA-280S-4	140	75	100	1480	93.6	0.87	7.2			510
YNA-280M-4	167.2	90	125		93.9	0.87				600
YNA-315S-4	201	110	150		94.5	0.88	2.1	6.9		921
YNA-315M-4	240	132	180		94.8	0.88				1002
YNA-315L1-4	288	160	215		94.9	0.89				1070
YNA-315L2-4	360	200	270		94.9	0.89				1170
YNA-355M1-4	390	220	300	1480	94.4	0.87	1.4	6.8	2.2	1560
YNA-355M2-4	438	250	335		94.7	0.87				1580
YNA-355L1-4	500	280	375		94.9	0.87				
YNA-355L2-4	580	315	420		95.2	0.87				



Type	Current (A)	Power		Speed (rpm)	Efficiency (%)	P.F (cosφ)	Locked Torque Rated Torque Tsn/Tn	Locked Current Rated Current Isn/In	Max Torquet Rated Torquet Tmax/Tn	Weight Kg
		KW	HP							
<b>synchronous speed 1000rpm, 380V 50HZ 6P</b>										
YNA71M1-6	0.72	0.18	0.24	850	56	0.66	1.9	4	2	13
YNA71M2-6	0.93	0.25	0.33		59	0.68				14
YNA80M1-6	1.26	0.37	0.5		62	0.7				15
YNA80M2-6	1.74	0.55	0.75	910	65	0.72	2	5.5		16
YNA90S-6	2.29	0.75	1		69	0.72				23
YNA90L-6	3.15	1.1	1.5	920	72	0.73				25
YNA100L-6	3.96	1.5	2		76	0.75				33
YNA112M-6	5.5	2.2	3	930	79	0.76	2.1	6.5	2.1	39
YNA132S-6	7.36	3	4	960	81	0.76				56
YNA132M1-6	9.8	4	5.5		82	0.76				71
YNA132M2-6	12.9	5.5	7.5		84	0.77	75			
YNA160M-6	16.8	7.5	10	970	86	0.77	2			108
YNA160L-6	24	11	15		87.5	0.78				131
YNA180L-6	31	15	20	980	89	0.81	2.1	7		171
YNA200L1-6	38.5	18.5	25		90	0.81				216
YNA200L2-6	43.9	22	30		90	0.83				225
YNA225M-6	58.5	30	40		91.5	0.84				286
YNA250M-6	71	37	55		92	0.86				380
YNA280S-6	86	45	60		92.5	0.86				2
YNA280M-6	105	55	75	92.8	0.86	540				
<b>synchronous speed 750rpm, 380V 50HZ 8P</b>										
YNA132S-8	6.03	2.2	3	710	78	0.71	1.8			62
YNA132M1-8	7.9	3	4		79	0.73				66
YNA160M1-8	10.3	4	5.5	720	81	0.73	1.9	6		94
YNA160M2-8	13.3	5.5	7.5		83	0.74				106
YNA160L-8	17.8	7.5	10		85.5	0.75				128
YNA180L-8	25.1	11	15		87.5	0.76	2			170
YNA200L-8	34.1	15	20		88	0.76				220
YNA225S-8	40.8	18.5	25	730	90	0.76	1.9	6.6		270
YNA225M-8	47	22	30	90.5	0.78	295				
YNA250M-8	63	30	40	91	0.79	370				
YNA280S-8	78	37	55	735	91.5	0.79				475
YNA280M-8	94.1	45	60		92	0.79				555



YUEMA YNA Series Motor

NOTES

