

# DASU

SQUIRREL CAGE INDUCTION MOTOR (IE2/IE3)



ISO9001 | CCC | CE

## IEC Squirrel-Cage Motors



### Electrical Design

Type : Squirrel Cage Induction Motor  
 Ratings : 0.18 kw ~ 375 kw

### Duty Rating

All Motors have a maximum continuous duty rating of S1 under rated load.  
 For duty cycles other than S1 .

### Supply Voltage

Stock motors are designed for operation as below: -  
 2.2kw and below : 220 ~ 240V / 380 ~ 415V 3phase / 50Hz  
 3 kw and above : 380 ~ 415V 3phase / 50Hz

### Insulation System

All motor are design with class F insulation and class B temperature rise at ambient temperature of 40°C.

### Inverter Duty

All motors are design to be suitable for Inverter use, comply with IEC 60034-17.  
 For intensive use of Inverter duty operations complying to IEC60034-25.

### Mechanical Design

Type: Squirrel Cage Induction Motor  
 Frame Size: 80M to 355C  
 Enclosure : Totally Enclosed Fan Cooled (TEFC), Totally Enclosed Non Ventilated (TENV)

### Bearings

High Quality Deep Groove Ball Sealed Bearings are use for our stock motor from frame size 80 to 225N and Vacuum De-Gassed High Quality Deep Groove Ball Open Bearings are use for stock motor from frame size 250M to 355C .  
 Any special bearings, please to us.

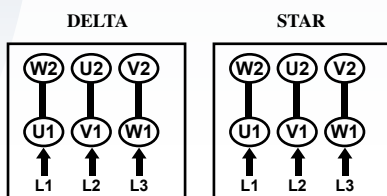
### Lubrication

Both our sealed and open type bearing are grease lubricated.

### Rated Voltage

3kw and below : 230 / 400V  
 4kw and above : 400 / 690V

### Connection Diagram

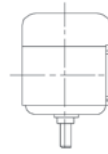


### B3 MOUNTED

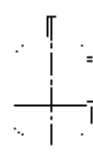
IM 1001 (B3)  
(H63 ~ 400)



IM 1011 (V5)  
(H63 ~ 160)

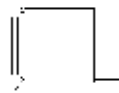


IM 1031 (V6)  
(H63 ~ 160)



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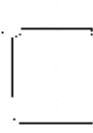
IM 3001 (B5)  
(H63 ~ 280)



IM 3011 (V1)  
(H63 ~ 355)

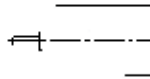


IM 1031 (V3)  
(H63 ~ 160)

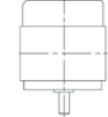


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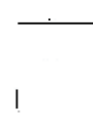
IM 3601 (B14)  
(H63 ~ 160)



IM 3611 (V18)  
(H63 ~ 160)

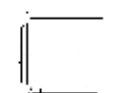


IM 3631 (V19)  
(H63 ~ 160)



### B35 MOUNTED

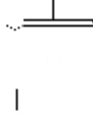
IM 2001 (B35)  
(H63 ~ 355)



IM 2011 (V15)  
(H63 ~ 160)

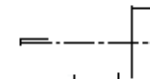


IM 2031 (V35)  
(H63 ~ 160)

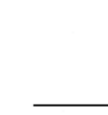


### B34 MOUNTED

IM 2101 (B34)  
(H63 ~ 160)



IM 2111 (V17)  
(H63 ~ 160)



IM 2131 (V37)  
(H63 ~ 160)



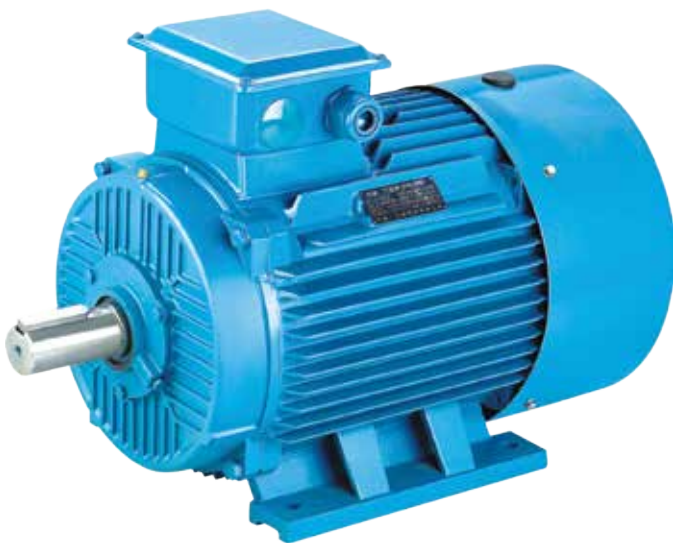
### Frame-400 (B3, B5, B35 Cast Iron)

Frame Size of motor	Poles	Drive End	Non-Drive End
80	All	6204	6203
90	All	6205	6205
100	All	6206	6206
112	All	6306	6306
132	All	6308	6308
160	All	6309	6309
180	All	6311	6311
200	All	6312	6312
225	All	6313	6313
250	All	6314	6314
280	2	6317	6314
280	4,6,8	6317	6317
315	2	6319	6317
315	4,6,8	6319	6319
355	2	6322	6319
355	4,6,8,10	N322	6322
400	4,6,8,10,12	N326	6326






## IE2 (CAST IRON BODY) YE2 series three phase asynchronous motors

YE2 series high efficiency three phase induction motors are produced according to GB/T11707 , the efficiency is equal to IE2 of IEC60034-30.

It is high efficiency, energy saving of new technology and new materials, F class insulation of good safe reliability. And widely used in machines, fan, pumps, compressor, mine, construction etc.



### Main advantages of product

-  Efficiency in line with international IE2 Standards
-  Standard manufacturing
-  National standard design
-  Stronger loading ability
-  Lower noise



### Technical Data:

Centre height of frame size	63 ~ 355mm
Power range :	0.12 ~ 375kw
Rated voltage :	400V (can be customized)
Rated frequency :	50Hz (can be customized)
Insulation class :	F with Class "B" rise
Cooling method :	IC411
Protection class :	IP55
Elevation:	Not over 1000m
Ambient temperature :	-15°C ~ + 40°C
Duty type:	S1
PTC Thermistor	#180 above
Mounting type:	
B3 (Frame with feet, endshield without flange)	
B35 (Frame with feet , endshield with flange)	
B5 (Frame without feet, endshield with flange)	

# IE2 YE2 series three phase asynchronous motors

Technical data of YE2 (IE2) series motors (refer to appendix I for outline installation dimensions)

Type	Rated Power (KW)	Full Load					locked-rotor Current	locked-rotor Torque	Pull-out Torque
		Speed (r/min)	Voltage	Current In (A)	Efficiency	Power Factor (Cos Ø)	Rated Current (Ist/IN)	Rated Torque (Tst/TN)	Rated Torque (Tmax/TN)
YE2-80M1-2	0.75	2855	400		77.4	0.82		2.3	2.3
YE2-80M2-2	1.1	2855	400		79.6	0.83			
YE2-90S-2	1.5	2875	400		81.3	0.84			
YE2-90L-2	2.2	2875	400		83.2	0.85			
YE2-100L-2	3	2880	400		84.6	0.87		2.2	
YE2-112M-2	4	2900	400		85.8	0.88			
YE2-132S1-2	5.5	2900	400		87.0	0.88			
YE2-132S2-2	7.5	2900	400		88.1	0.89			
YE2-132M-2	9	2900	400		88.1	0.89			
YE2-160M1-2	11	2940	400		89.4	0.89			
YE2-160M2-2	15	2940	400		90.3	0.89			
YE2-160L-2	18.5	2940	400		90.9	0.89			
YE2-180M-2	22	2955	400		91.3	0.89		2	
YE2-200L1-2	30	2965	400		92.0	0.89			
YE2-200L2-2	37	2965	400		92.5	0.89		2.2	
YE2-225M-2	45	2970	400		92.9	0.89			
YE2-250M-2	55	2975	400		93.2	0.89		1.8	
YE2-280S-2	75	2975	400		93.8	0.89			
YE2-280M-2	90	2975	400		94.1	0.89			
YE2-315S-2	110	2980	400		94.3	0.9			
YE2-315M-2	132	2980	400		94.6	0.9		2.2	
YE2-315L1-2	160	2980	400		94.8	0.91			
YE2-315L2-2	200	2980	400		95.0	0.91			
YE2-355M1-2	220	2980	400		95.0	0.91			
YE2-355M2-2	250	2980	400		95.0	0.91			
YE2-355L1-2	280	2980	400		95.0	0.91			
YE2-355L2-2	315	2980	400		95.0	0.91			
YE2-355L3-2	355	2980	400		95.0	0.91			
YE2-355L4-2	375	2980	400		95.0	0.91			

# IE2 YE2 series three phase asynchronous motors

Technical data of YE2 (IE2) series motors (refer to appendix I for outline installation dimensions)

Type	Rated Power (KW)	Full Load					locked-rotor Current	locked-rotor Torque	Pull-out Torque	
		Speed (r/min)	Voltage	Current In (A)	Efficiency	Power Factor (Cos Ø)	Rated Current (Ist/IN)	Rated Torque (Tst/TN)	Rated Torque (Tmax/TN)	
YE2-80M2-4	0.75	1400	400		79.60	0.76		2.3	2.3	
YE2-90S-4	1.1	1425	400		81.40	0.77				
YE2-90L-4	1.5	1425	400		82.80	0.78				
YE2-100L1-4	2.2	1440	400		84.30	0.8				
YE2-100L2-4	3	1440	400		85.50	0.81				
YE2-112M-4	4	1450	400		86.60	0.81				
YE2-132S-4	5.5	1455	400		87.70	0.82		2.0		
YE2-132M1-4	7.5	1455	400		88.70	0.83				
YE2-132M2-4	9	1455	400		88.70	0.83				
YE2-132M3-4	11	1455	400		88.70	0.83				
YE2-132M2-4	9	1455	400		88.70	0.83				
YE2-160M-4	11	1465	400		89.80	0.83				
YE2-160L-4	15	1465	400		90.60	0.84		2.1		
YE2-180M-4	18.5	1470	400		91.20	0.85				
YE2-180L-4	22	1475	400		91.60	0.85				
YE2-200L-4	30	1475	400		92.30	0.85				
YE2-225S-4	37	1480	400		92.70	0.86				
YE2-225M-4	45	1480	400		93.10	0.86				2.2
YE2-250M-4	55	1480	400		93.50	0.86				
YE2-280S-4	75	1485	400		94.00	0.87				
YE2-280M-4	90	1485	400		94.20	0.88				
YE2-315S-4	110	1485	400		94.50	0.89		2.1		
YE2-315M-4	132	1485	400		94.70	0.89				
YE2-315L1-4	160	1485	400		94.90	0.9				
YE2-315L2-4	200	1485	400		95.10	0.9			2.0	
YE2-355M1-4	220	1490	400		95.10	0.9				
YE2-355M2-4	250	1490	400		95.10	0.9				
YE2-355L1-4	280	1490	400		95.10	0.9				
YE2-355L2-4	315	1490	400		95.10	0.9		1.7		
YE2-355L3-4	355	1490	400		95.10	0.89				
YE2-355L4-4	375	1490	400		95.10	0.89				
YE2-90S-6	0.75	935	400		75.90	0.71		2.1	2.1	
YE2-90L-6	1.1	940	400		78.10	0.72				
YE2-100L-6	1.5	945	400		79.80	0.72				
YE2-112M-6	2.2	950	400		81.80	0.72				
YE2-132S-6	3	960	400		83.30	0.72				
YE2-132M1-6	4	960	400		84.60	0.74				
YE2-132M2-6	5.5	960	400		86.00	0.75				
YE2-160M1-6	7.5	970	400		87.20	0.78				
YE2-160M2-6	9	970	400		87.20	0.78				
YE2-160L-6	11	970	400		88.70	0.79				
YE2-180L-6	15	975	400		89.70	0.82				
YE2-200L1-6	18.5	975	400		90.40	0.8				
YE2-200L2-6	22	975	400		90.90	0.81				2.0
YE2-225M-6	30	985	400		91.70	0.82				
YE2-250M-6	37	985	400		92.20	0.83				
YE2-280S-6	45	985	400		92.70	0.85				
YE2-280M1-6	55	985	400		93.10	0.86				
YE2-280M2-6	75	985	400		93.10	0.86				
YE2-315S-6	75	990	400		93.70	0.84				
YE2-315M-6	90	990	400		94.00	0.85				
YE2-315L1-6	110	990	400		94.30	0.85				
YE2-315L2-6	132	990	400		94.60	0.86				
YE2-355M1-6	160	990	400		94.80	0.86				
YE2-355M2-6	185	990	400		94.80	0.86				
YE2-355M3-6	200	990	400		95.00	0.86				
YE2-355L1-6	220	990	400		95.00	0.86				
YE2-355L2-6	250	990	400		95.00	0.86				
YE2-355L3-6	280	990	400		95.00	0.86				
YE2-355L4-6	315	990	400		95.00	0.86				






## IE3 (CAST IRON BODY) YE3 series three phase asynchronous motors

YE3 series three-phase asynchronous motor (frame size 400) is a new generation of low-voltage high-power three-phase asynchronous motor designed and manufactured by our company with full absorption of advanced technology at home and abroad. It greatly expands the power range of low-voltage three-phase asynchronous motor, better meets the needs of customers, and is suitable for driving all kinds of large general machinery. The technical data of the motor is in line with JB/T10868 standard, and the mounting size is in line with GB/T4772.1 standard.

The efficiency of the motor conforms to Grade 3 energy efficiency standard in the national standard "Motor Energy Efficiency Limitation Value and Energy Efficiency Grade" (GB 18613 -- 2020).



### Main advantages of product

-  High reliability design
-  Lower noise
-  Stronger loading ability
-  Efficiency meets the national three-level energy efficiency standard
-  Efficiency in line with international IE3 standard.

### Technical Data:

Centre height of frame size	63 ~ 400mm
Power range :	0.12 ~ 630kW
Rated voltage :	4000V (can be customized)
Rated frequency :	50Hz (can be customized)
Insulation class :	F with class "B" rise
Cooling method :	IC411
Protection class :	IP55
Elevation:	Not over 1000m
Ambient temperature :	-15°C ~ + 40°C
Duty type:	S1
PTC Thermistor	#180 above
Mounting type:	
B3 (Frame with feet, endshield without flange)	
B35 (Frame with feet , endshield with flange)	
B5 (Frame without feet, endshield with flange)	

# IE3 YE3 series three phase asynchronous motors

## Technical data of YE3 (IE3) series motors

Type	Rated Power (KW)	Full Load					locked-rotor Current	locked-rotor Torque	Pull-out Torque
		Speed (r/min)	Voltage	Current In (A)	Efficiency	Power Factor (Cos Ø)	Rated Current (Ist/IN)	Rated Torque (Tst/TN)	Rated Torque (Tmax/TN)
YE3-63M1-2	0.18	2720	400		65.9	0.8		2.3	2.2
YE3-63M2-2	0.25	2720	400		69.7	0.81		2.3	2.2
YE3-71M1-2	0.37	2770	400		73.8	0.81		2.3	2.2
YE3-71M2-2	0.55	2795	400		77.8	0.82		2.3	2.3
YE3-80M1-2	0.75	2870	400		80.7	0.82		2.3	2.3
YE3-80M2-2	1.1	2875	400		82.7	0.83		2.2	2.3
YE3-90S-2	1.5	2880	400		84.2	0.84		2.2	2.3
YE3-90L-2	2.2	2880	400		85.9	0.85		2.2	2.3
YE3-100L-2	3	2880	400		87.1	0.87		2.2	2.3
YE3-112M-2	4	2915	400		88.1	0.88		2.2	2.3
YE3-132S1-2	5.5	2935	400		89.2	0.88		2	2.3
YE3-132S2-2	7.5	2930	400		90.1	0.88		2	2.3
YE3-160M1-2	11	2950	400		91.2	0.89		2	2.3
YE3-160M2-2	15	2945	400		91.9	0.89		2	2.3
YE3-160L-2	18.5	2945	400		92.4	0.89		2	2.3
YE3-180M-2	22	2950	400		92.7	0.89		2	2.3
YE3-200L1-2	30	2965	400		93.3	0.89		2	2.3
YE3-200L2-2	37	2965	400		93.7	0.89		2	2.3
YE3-225M-2	45	2965	400		94.0	0.9		2	2.3
YE3-250M-2	55	2975	400		94.3	0.9		2	2.3
YE3-280S-2	75	2975	400		94.7	0.9		1.8	2.3
YE3-280M-2	90	2975	400		95.0	0.9		1.8	2.3
YE3-315S-2	110	2985	400		95.2	0.9		1.8	2.3
YE3-315M-2	132	2985	400		95.4	0.9		1.8	2.3
YE3-315L1-2	160	2985	400		95.6	0.91		1.8	2.3
YE3-315L2-2	200	2985	400		95.8	0.91		1.8	2.2
YE3-355M1-2	220	2985	400		95.8	0.91		1.6	2.2
YE3-355M2-2	250	2985	400		95.8	0.91		1.6	2.2
YE3-355L1-2	280	2985	400		95.8	0.91		1.6	2.2
YE3-355L2-2	315	2985	400		95.8	0.91		1.6	2.2
YE3-355L3-2	355	2985	400		95.8	0.91		1.6	2.2
YE3-355L4-2	375	2985	400		95.8	0.91		1.6	2.2
YE3-63M1-4	0.12	1325	400		64.8	0.72		2.1	2.2
YE3-63M2-4	0.18	1350	400		69.9	0.73		2.1	2.2
YE3-71M1-4	0.25	1355	400		73.5	0.74		2.1	2.2
YE3-71M2-4	0.37	1375	400		77.3	0.75		2.1	2.2
YE3-80M1-4	0.55	1430	400		80.8	0.75		2.4	2.3
YE3-80M2-4	0.75	1430	400		82.5	0.75		2.3	2.3
YE3-90S-4	1.1	1430	400		84.1	0.76		2.3	2.3
YE3-90L-4	1.5	1430	400		85.3	0.77		2.3	2.3
YE3-100L1-4	2.2	1440	400		86.7	0.81		2.3	2.3
YE3-100L2-4	3	1440	400		87.7	0.82		2.3	2.3
YE3-112M-4	4	1455	400		88.6	0.82		2.2	2.3
YE3-132S-4	5.5	1465	400		89.6	0.83		2	2.3
YE3-132M1-4	7.5	1465	400		90.4	0.84		2	2.3
YE3-160M-4	11	1470	400		91.4	0.85		2.2	2.3
YE3-160L-4	15	1470	400		92.1	0.86		2.2	2.3
YE3-180M-4	18.5	1470	400		92.6	0.86		2	2.3
YE3-180L-4	22	1470	400		93.0	0.86		2	2.3
YE3-200L-4	30	1475	400		93.6	0.86		2	2.3
YE3-225S-4	37	1480	400		93.9	0.86		2	2.3
YE3-225M-4	45	1480	400		94.2	0.86		2	2.3
YE3-250M-4	55	1485	400		94.6	0.86		2.2	2.3
YE3-280S-4	75	1490	400		95.0	0.88		2	2.3
YE3-280M-4	90	1490	400		95.2	0.88		2	2.3
YE3-315S-4	110	1490	400		95.4	0.89		2	2.2
YE3-315M-4	132	1490	400		95.6	0.89		2	2.2
YE3-315L1-4	160	1490	400		95.8	0.9		2	2.2
YE3-315L2-4	200	1490	400		96.0	0.9		2	2.2
YE3-355M1-4	220	1490	400		96.0	0.9		2	2.2
YE3-355M2-4	250	1490	400		96.0	0.9		2	2.2
YE3-355L1-4	280	1495	400		96.0	0.9		2	2.2
YE3-355L2-4	315	1495	400		96.0	0.9		2	2.2
YE3-355L3-4	355	1495	400		96.0	0.88		2	2.2
YE3-355L4-4	375	1495	400		96.0	0.88		2	2.2

# IE3 YE3 series three phase asynchronous motors

## Technical data of YE3 (IE3) series motors

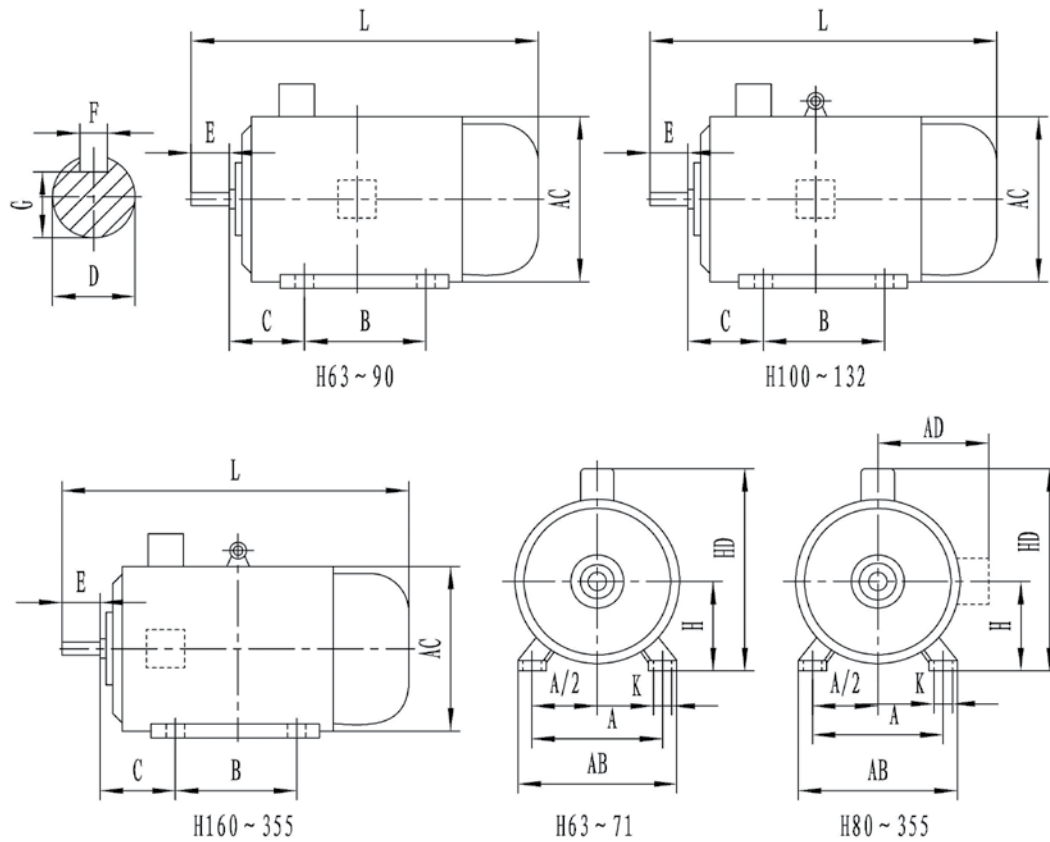
Type	Rated Power (KW)	Full Load					locked-rotor Current	locked-rotor Torque	Pull-out Torque
		Speed (r/min)	Voltage	Current In (A)	Efficiency	Power Factor (Cos $\phi$ )	Rated Current (Ist/IN)	Rated Torque (Tst/TN)	Rated Torque (Tmax/TN)
YE3-71M1-6	0.18	870	400		63.9	0.66		1.9	1.9
YE3-71M2-6	0.25	870	400		68.6	0.68		1.9	2
YE3-80M1-6	0.37	925	400		73.5	0.7		1.9	2
YE3-80M2-6	0.55	925	400		77.2	0.72		1.9	2.1
YE3-90S-6	0.75	945	400		78.9	0.71		2	2.1
YE3-90L-6	1.1	950	400		81.0	0.73		2	2.1
YE3-100L-6	1.5	950	400		82.5	0.73		2	2.1
YE3-112M-6	2.2	965	400		84.3	0.74		2	2.1
YE3-132S-6	3	975	400		85.6	0.74		2	2.1
YE3-132M1-6	4	975	400		86.8	0.74		2	2.1
YE3-132M2-6	5.5	975	400		88.0	0.75		2	2.1
YE3-160M1-6	7.5	980	400		89.1	0.79		2	2.1
YE3-160M2-6	8.2	980	400		89.1	0.79		2	2.1
YE3-160L-6	11	980	400		90.3	0.8		2	2.1
YE3-180L-6	15	980	400		91.2	0.81		2	2.1
YE3-200L1-6	18.5	985	400		91.7	0.81		2	2.1
YE3-200L2-6	22	985	400		92.2	0.81		2	2.1
YE3-225M-6	30	985	400		92.9	0.83		2	2.1
YE3-250M-6	37	985	400		93.3	0.84		2	2.1
YE3-280S-6	45	990	400		93.7	0.85		2	2
YE3-280M1-6	55	990	400		94.1	0.86		2	2
YE3-315S-6	75	990	400		94.6	0.84		2	2
YE3-315M-6	90	990	400		94.9	0.85		2	2
YE3-315L1-6	110	990	400		95.1	0.85		2	2
YE3-315L2-6	132	990	400		95.4	0.86		2	2
YE3-355M1-6	160	995	400		95.6	0.86		1.8	2
YE3-355M3-6	200	995	400		95.8	0.87		1.8	2
YE3-355L1-6	220	995	400		95.8	0.87		1.8	2
YE3-355L2-6	250	995	400		95.8	0.87		1.8	2
YE3-355L3-6	280	995	400		95.8	0.86		1.8	2
YE3-355L4-6	315	995	400		95.8	0.86		1.8	2
YE3-80M1-8	0.12	690	400		50.7	0.61		1.8	1.9
YE3-80M1-8	0.18	690	400		58.7	0.61		1.8	1.9
YE3-80M2-8	0.25	695	400		64.1	0.61		1.8	1.9
YE3-90S-8	0.37	695	400		69.3	0.61		1.8	1.9
YE3-90L-8	0.55	695	400		73.0	0.61		1.8	2
YE3-100L1-8	0.75	705	400		75.0	0.67		1.8	2
YE3-100L2-8	1.1	705	400		77.7	0.69		1.8	2
YE3-112M-8	1.5	710	400		79.7	0.7		1.8	2
YE3-132S-8	2.2	725	400		81.9	0.71		1.8	2
YE3-132M-8	3	725	400		83.5	0.73		1.8	2
YE3-160M1-8	4	730	400		84.8	0.73		1.9	2
YE3-160M2-8	5.5	730	400		86.2	0.74		1.9	2
YE3-160L-8	7.5	730	400		87.3	0.75		1.9	2
YE3-180L-8	11	730	400		88.6	0.75		2	2
YE3-200L-8	15	735	400		89.6	0.76		2	2
YE3-225S-8	18.5	735	400		90.1	0.76		1.9	2
YE3-225M-8	22	735	400		90.6	0.78		1.9	2
YE3-250M-8	30	735	400		91.3	0.79		1.9	2
YE3-280S-8	37	740	400		91.8	0.79		1.9	2
YE3-280M-8	45	740	400		92.2	0.79		1.9	2
YE3-315S-8	55	740	400		92.5	0.81		1.8	2
YE3-315M-8	75	740	400		93.1	0.81		1.8	2
YE3-315L1-8	90	740	400		93.4	0.82		1.8	2
YE3-315L2-8	110	740	400		93.7	0.82		1.8	2
YE3-355M1-8	132	745	400		94.0	0.82		1.8	2
YE3-355M2-8	160	745	400		94.3	0.82		1.8	2
YE3-355L1-8	185	745	400		94.5	0.83		1.8	2
YE3-355L2-8	200	745	400		94.6	0.83		1.8	2
YE3-355L3-8	220	745	400		94.6	0.83		1.8	2
YE3-315S-10	45	590	400		92.0	0.75		1.5	2
YE3-315M-10	55	590	400		92.0	0.75		1.5	2
YE3-315L1-10	75	590	400		92.8	0.76		1.5	2
YE3-315L2-10	90	590	400		93.0	0.77		1.5	2
YE3-355M1-10	110	595	400		93.3	0.78		1.3	2
YE3-355M2-10	132	595	400		93.8	0.78		1.3	2
YE3-355L-10	160	595	400		93.8	0.78		1.3	2

# IE3 YE3 series three phase asynchronous motors

## Technical data of YE3 (IE3) series motors (frame size: 400)

Type	Rated Power (KW)	Speed (r/min)	Voltage	Full Load			locked-rotor Current	locked-rotor Torque	Pull-out Torque
				Current In (A)	Efficiency	Power Factor (Cos $\phi$ )	Rated Current (Ist/IN)	Rated Torque (Tst/TN)	Rated Torque (Tmax/TN)
YE3-400M1-2	400	2982	400		95.8	0.92		1.31	2.43
YE3-400M2-2	450	2982	400		95.8	0.92		1.83	2.98
YE3-400L1-2	500	2982	400		95.8	0.92		1.2	2.9
YE3-400L2-2	560	2982	400		95.8	0.92		0.98	2.57
YE3-400L3-2	630	2982	400		95.8	0.93		1.38	3.42
YE3-400M1-4	400	1492	400		96.0	0.9		1.92	2.75
YE3-400M2-4	450	1492	400		96.0	0.9		2.03	2.81
YE3-400L1-4	500	1492	400		96.0	0.9		1.83	2.52
YE3-400L2-4	560	1492	400		96.0	0.9		2.02	2.67
YE3-400L3-4	630	1492	400		96.0	0.91		1.75	2.34
YE3-400M1-6	315	994	400		95.8	0.86		1.83	2.34
YE3-400M2-6	355	994	400		95.8	0.86		1.86	2.31
YE3-400L1-6	400	994	400		95.8	0.86		2.08	2.48
YE3-400L2-6	450	994	400		95.8	0.86		2.07	2.43
YE3-400L3-6	500	994	400		95.8	0.86		1.86	2.19
YE3-400L4-6	560	994	400		95.8	0.86		1.85	2.22
YE3-400M1-8	250	745	400		94.6	0.84		1.86	2.48
YE3-400M2-8	280	745	400		94.6	0.84		1.71	2.31
YE3-400L1-8	315	745	400		94.6	0.85		1.81	2.38
YE3-400L2-8	355	745	400		94.6	0.85		1.72	2.28
YE3-400L3-8	400	745	400		94.6	0.85		1.96	2.44
YE3-400M1-10	200	596	400		93.9	0.77		1.88	2.93
YE3-400M2-10	250	596	400		93.9	0.77		1.87	2.9
YE3-400L1-10	280	596	400		94.4	0.78		1.77	2.73
YE3-400L2-10	315	596	400		94.4	0.78		1.77	2.73
YE3-400L3-10	355	596	400		94.4	0.76		2.12	2.13
YE3-400L1-12	160	495	400		93.0	0.74		0.8	1.8
YE3-400L2-12	200	495	400		93.0	0.74		0.8	1.8
YE3-400L3-12	250	495	400		93.0	0.74		0.8	1.8
YE3-400L4-12	280	495	400		93.0	0.74		0.8	1.8

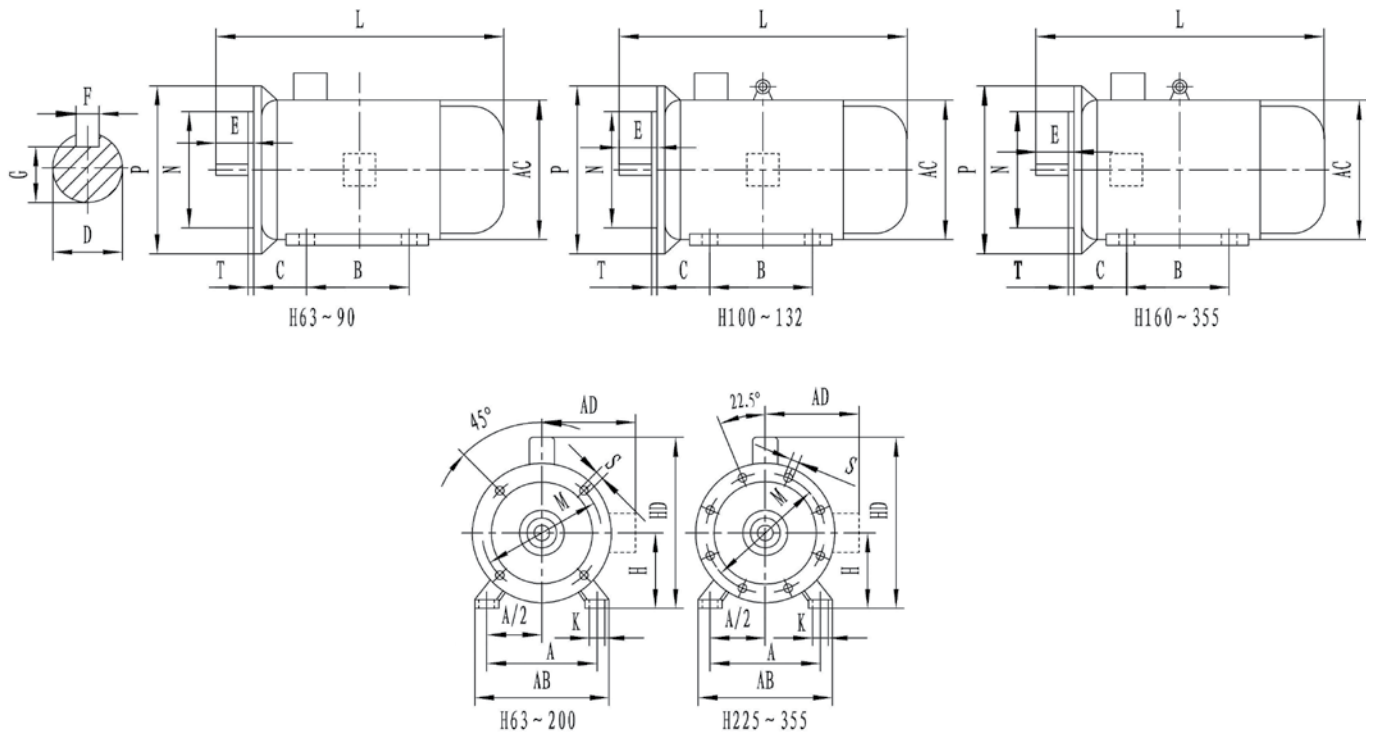
# IE2 / IE3 YE2 / YE3 series motor's dimensions



## Frame with feet, enshield without flange (B3)

Frame	Poles	Mounting dimensions										Outline dimensions									
		A	A/2	B	C	D	E	F	G	H	K	AB	AC	AD	HD	L					
		IE2	IE3	YV2	YEJ2	YE4															
63M	2, 4	100	50	80	40	11	23	4	8.5	63	7	135	130	70	180	/	230	/	/	/	
71M	2, 4, 6	112	56	90	45	14	30	5	11	71	7	150	145	80	195	/	255	310	300	/	
80M	2, 4, 6, 8	125	62.5	100	50	19	40	6	15.5	80	10	165	175	145	220	295	300	350	360	305	
90S		140	70	100	56	24	50	8	20	90	10	180	195	155	250	320	330	385	390	360	
90L		140	70	125	56	24	50		20	90		10	180	195	155	250	345	355	410	415	390
100L		160	80	140	63	28	60	8	24	100	12	205	215	180	270	385	390	450	460	435	
112M		190	95	140	70		60		24	112		230	240	190	300	405	415	470	480	440	
132S		2, 4, 6, 8	216	108	140	89	38	80	10	33	132	12	270	275	210	345	470	490	551	555	510
132M			216	108	178	89	38	80	10	33	132	12	270	275	210	345	510	525	589	595	550
160M			254	127	210	108	42	110	12	37	160	14.5	320	330	255	420	615	630	688	720	730
160L			254	127	254	108	42										110	12	37	160	14.5
180M			279	139.5	241	121	48	110	14	42.5	180	14.5	355	380	280	455	700	710	750	825	770
180L	279		139.5	279	121	48	110										14	42.5	180	14.5	355
200L	318		159	305	133	55	16	49	200	200	18.5	395	420	305	505	770	785	850	915	860	
225S	4, 8		356	178	286	60	140	18	53	225	18.5	435	470	335	560	815	855	895	965	830	
225M	2				311	149	55	110	16							49	225	18.5	435	470	335
250M	4, 6, 8		406	203	349	168	60	18	53	250	24	490	510	370	615	915	950	995	990	990	
	2	65																			140
280S	2	457	228.5	368	190	75	140	20	67.5	280	550	580	410	680	990	1005	1080	990	990		
280M	4, 6, 8														75	140	18			58	280
315S	2	508	254	406	216	80	170	22	71	315	635	645	490	845	1200	1210	1255	1180	1180		
	4, 6, 8, 10														80	170	22			71	315
315M	2	508	254	457	216	80	170	22	71	315	635	645	490	845	1310	1320	1365	1320	1320		
315L	4, 6, 8, 10														80	170	22			71	315
355M	2	610	305	560	254	75	140	20	67.5	355	730	710	555	1010	1500	1515	1570	1500	1500		
	4, 6, 8, 10														75	140	20			67.5	355
355L	2	610	305	630	254	95	170	25	86	355	730	710	555	1010	1500	1515	1570	1500	1500		
355LL	4, 6, 8, 10														75	140	20			67.5	355
400M, L	4, 6, 8, 10	686	343	630	280	110	210	28	100	400	35	808	800	695	1095	/	1920	2160	/	/	

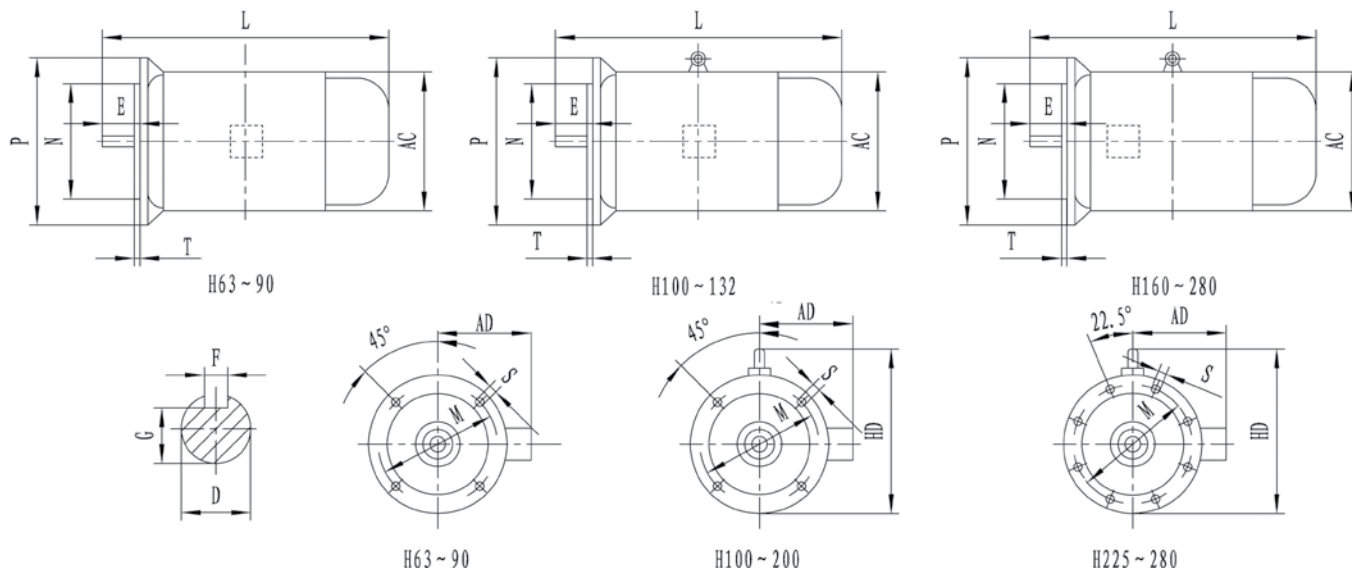
# IE2 / IE3 YE2 / YE3 series motor's dimensions



## Frame with foot end, shield with flange (with through hole) (B35)

Frame	Flange Size	Poles	Mounting dimensions																	Outline dimensions										
			A	A/2	B	C	D	E	F	G	H	K	M	N	P	R	S	T	Flange Hole	AB	AC	AD	HD	L						
																								YE2/YV2	YD/YDT	YE3	YV/2	YE2	YE4	
63M	FF115	2, 4	100	50	80	40	11	23	4	8.5	63	7	115	95	140			10	3		135	130	70	180	/	230	/	/	/	
71M	FF130	2, 4, 6	112	56	90	45	14	30	5	11	71		130	110	160						150	145	80	195	/	255	310	300	/	
80M	FF165		125	62.5	100	50	19	40	6	15.5	80							12	3.5		165	175	145	220	295	300	350	360	305	
90S			140	70	100	56	24	50			8	20	90	10	165	130	200					180	195	155	250	320	330	385	390	360
90L	FF215		160	80	140	63					100										205	215	180	270	345	355	410	415	390	
100L			190	95	140	70	28	60			24	112	12	215	180	250						230	240	190	300	405	415	470	480	440
112M	FF285	2, 4, 6, 8	178	89	140	70	38	80	10	33	132										270	275	210	345	470	490	551	555	510	
132S			216	108	140	89	38	80	10	33	132	12	265	230	300							270	275	210	345	470	490	551	555	510
132M	FF300		178	89	140	70	38	80	10	33	132										270	275	210	345	470	490	551	555	510	
160M			254	127	210	108	42				12	37	160	14.5	300	250	350					320	330	255	420	615	630	688	720	730
160L	FF300		241	120.5	254	108	42	110													320	330	255	420	615	630	688	720	730	
180M			279	139.5	241	121	48				14	42.5	180	14.5	300	250	350					355	380	280	455	700	710	750	825	770
180L	FF350		279	139.5	241	121	48	110													355	380	280	455	700	710	750	825	770	
200L			318	159	305	133	55				16	49	200	14.5	350	300	400					395	420	305	505	770	785	850	915	860
225S	FF400	4, 8	286	143	241	121	55	140	18	53											435	470	335	560	815	855	895	965	830	
225M			356	178	311	149	55	110	16	49	225	18.5	400	350	450							435	470	335	560	820	850	885	960	830
250M	FF500	2	406	203	349	168	60			53											490	510	370	615	915	950	995		990	
280S			457	228.5	368	190	65	140	18	58	250											490	510	370	615	915	950	995		990
280M	FF500	4, 6, 8	419		368	190	75	140	20	67.5											550	580	410	680	1040	1055	1130		1040	
315S			457	228.5	368	190	65	140	18	58	280											550	580	410	680	1040	1055	1130		1040
315L	FF600	2	508	254	457	216	75	140	20	67.5											635	645	490	845	1200	1210	1255		1180	
315M			508	254	457	216	65	140	18	58	315											635	645	490	845	1230	1240	1285		1290
315L	FF600	4, 6, 8, 10	508	254	457	216	65	140	18	58											635	645	490	845	1310	1320	1365		1210	
355M			508	254	457	216	65	140	18	58	28											635	645	490	845	1340	1350	1395		1320
355L	FF740	2	610	305	560	254	75	140	20	67.5											730	710	555	1010	1500	1515	1570		1500	
355LL			610	305	560	254	75	140	20	67.5	28											730	710	555	1010	1530	1545	1600		1530
355LL	FF740	4, 6, 8, 10	610	305	560	254	75	140	20	67.5											730	710	555	1010	1600	1615	1670		1530	
355LL			610	305	560	254	75	140	20	67.5	28											730	710	555	1010	1630	1645	1700		1530

# IE2 / IE3 YE2 / YE3 series motor's dimensions



## Frame with foot end, shield with flange (with through hole) (B5)

Frame	Flange size	Poles	Mounting dimensions															Outline dimensions								
			A	A/2	B	C	D	E	F	G	H	K	M	N	P	R	S	T	Flange e	AB	AC	AD	HD	L		
																								IE2	IE3	IE4
63M	FF115	2, 4	100	50	80	40	11	23	4	8.5	63	7	115	95	140	10	3	4	135	130	70	180	/	230	/	
71M	FF130	2, 4, 6	112	56	90	45	14	30	5	11	71		130	110	160				150	145	80	195	/	255	/	
80M	FF165	2, 4, 6, 8	125	62.5	100	50	19	40	6	15.5	80	10	165	130	200	12	3.5	4	165	175	145	220	295	300	305	
90S			140	70	100	56	24	50	8	20	90								320	330	360					
90L				125																						
100L	FF215	2, 4, 6, 8	160	80	140	63	28	60	8	24	100	12	215	180	250	14.5	4	4	205	215	180	270	385	390	435	
112M			190	95	140	70				112	230								240	190	300	405	415	440		
132S	FF265	2, 4, 6, 8	216	108	140	89	38	80	10	33	132	12	265	230	300	14.5	4	4	270	275	210	345	470	490	510	
132M						178																				
160M	FF300	2, 4, 6, 8	254	127	210	108	42	110	12	37	160	14.5	300	250	350	18.5	5	8	320	330	255	420	615	630	730	
160L						254																				
180M	FF350	2, 4, 6, 8	279	139.5	241	121	48	110	14	42.5	180	14.5	350	300	400	18.5	5	8	355	380	280	455	700	710	770	
180L						279																				
200L	FF350	2, 4, 6, 8	318	159	305	133	55	16	49	200	18.5	350	300	400	18.5	5	8	395	420	305	505	770	785	860		
225S	FF400	4, 8	356	178	286	149	60	140	18	53	225	18.5	400	350	450	18.5	5	8	815	855	830					
225M		2			311	55	110	16	49	225									400	350	450	820	850	830		
		4, 6, 8			60	140	18	53	250	845	880	860														
250M	FF500	2	406	203	349	168	140	18	58	250	24	500	450	550	18.5	5	8	490	510	370	615	915	950	990		
			4, 6, 8			65												140	18	58	280	990	1005	990		
280S	FF500	2	457	228.5	368	190	75	140	20	67.5	280	500	450	550	18.5	5	8	550	580	410	680	1040	1055	1040		
280M		4, 6, 8			419	65	190			75								20	67.5	280	1040	1055	1040			





## IE3 (ALU BODY) Square shape aluminium housing series three-phase asynchronous motor

IE3 square aluminium shell series three-phase asynchronous motors are fully enclosed self-fan-type squirrel cage three-phase asynchronous motors, which adopt the national unified design standards and have the characteristics of high efficiency and energy saving, high starting torque, low noise, small vibration, high reliability, power grade and installation size in line with IEC standard of international Electrotechnical Commission, convenient operation and maintenance, etc.

This series of motors are widely used in general places and precision instruments without special requirements, especially suitable for reducer, air compressor, water pump, oil pump, assembly line, packaging industry, food machinery and other industries.



### Main advantages of product

-  Light weight
-  Beautiful
-  Reliable structure
-  Safety operation

### Technical Data:

DESCRIPTION	STANDARD
Centre height of frame size	63 ~ 132mm
Power range :	0.12 ~ 9kW
Rated voltage :	400V (can be customized)
Rated frequency :	50Hz (can be customized)
Insulation class :	F with class 'B' rise
Cooling method :	IC411
Protection class :	IP55
Elevation:	Not over 1000m
Ambient temperature :	-15°C ~ + 40°C
Duty type:	S1
Mounting type:	
B3 (Frame with feet, endshield without flange)	
B35 (Frame with feet , endshield with flange)	
B5 (Frame without feet, endshield with flange)	

Frame Size of motor	Poles	Drive End	Non-Drive End
63	2,4,6	6201	6201
71	2,4,6	6202	6202
80	2,4,6,8	6204	6204
90	2,4,6,8	6205	6205
100	2,4,6,8	6206	6206
112	2,4,6,8	6206	6206
132	2,4,6,8	6208	6208
160	2,4,6,8	6309	6309

The technical data of IE3 square aluminium shell series three-phase asynchronous motors are the same as those of 63 ~ 132 in the technical data of IE3 series motors (refer to appendix II for outline installation dimensions)

## IE3 YE3 series aluminium housing three-phase asynchronous motors

Technical data of MS series motors (refer to appendix II for outline installation dimensions)

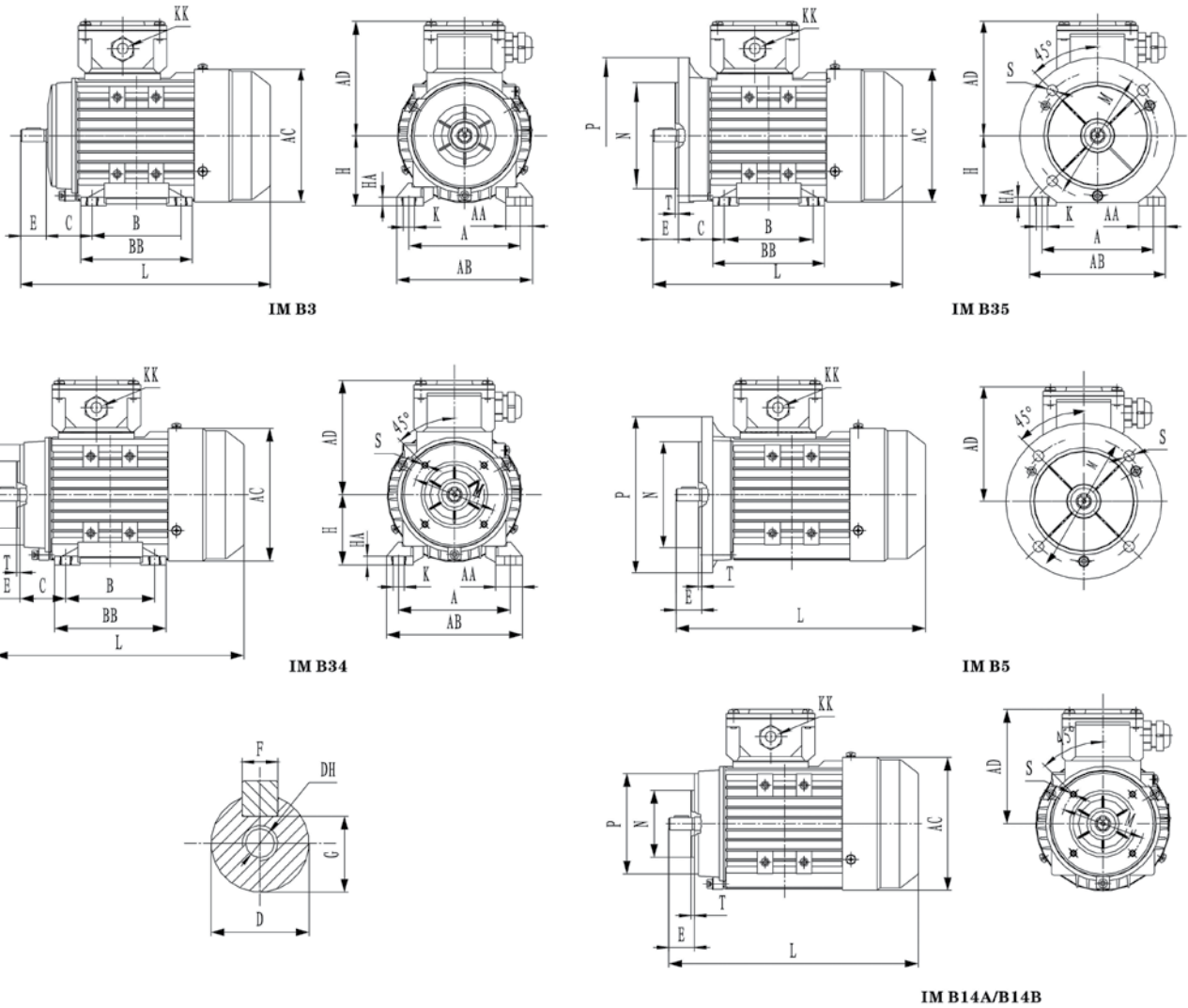
Type	Rated Power (KW)	Full Load					locked-rotor Current	locked-rotor Torque	Pull-out Torque
		Speed (r/min)	Voltage	Current In	Efficiency	Power Factor	Rated Current (Ist/IN)	Rated Torque (Tst/TN)	Rated Torque (Tmax/TN)
MS56M1-2	0.09	2670	380	0.33	53.0%	0.79	6.8	2.3	2.2
MS56M2-2	0.12	2680	380	0.37	61.0%	0.8	6.8	2.3	2.2
MS63M1-2	0.18	2720	380	0.57	60.4%	0.8	6.8	2.3	2.2
MS63M2-2	0.25	2720	380	0.72	64.8%	0.81	6.8	2.3	2.2
MS71M1-2	0.37	2740	380	1.00	69.5%	0.81	6.8	2.3	2.2
MS71M2-2	0.55	2740	380	1.38	74.1%	0.82	6.8	2.3	2.3
MS80M1-2	0.75	2855	380	1.77	77.4%	0.83	6.8	2.3	2.3
MS80M2-2	1.1	2855	380	2.50	79.6%	0.84	7.1	2.3	2.3
MS90S-2	1.5	2875	380	3.34	81.3%	0.84	7.3	2.3	2.3
MS90L-2	2.2	2875	380	4.73	83.2%	0.85	7.6	2.3	2.3
MS100L-2	3	2880	380	6.19	84.6%	0.87	7.8	2.2	2.3
MS112M-2	4	2900	380	8.05	85.8%	0.88	8.1	2.2	2.3

MS56M1-4	0.06	1310	380	0.26	50.0%	0.7	6.4	2.1	2.2
MS56M2-4	0.09	1310	380	0.36	54.0%	0.71	6.4	2.1	2.2
MS63M1-4	0.12	1310	380	0.43	59.1%	0.72	6.4	2.1	2.2
MS63M2-4	0.18	1310	380	0.58	64.7%	0.73	6.4	2.1	2.2
MS71M1-4	0.25	1330	380	0.75	68.5%	0.74	6.4	2.1	2.2
MS71M2-4	0.37	1330	380	1.03	72.7%	0.75	6.4	2.1	2.2
MS80M1-4	0.55	1400	380	1.45	77.1%	0.75	6.4	2.3	2.3
MS80M2-4	0.75	1400	380	1.88	79.6%	0.76	6.4	2.3	2.3
MS90S-4	1.1	1400	380	2.67	81.4%	0.77	6.6	2.3	2.3
MS90L-4	1.5	1425	380	3.57	82.8%	0.77	6.7	2.3	2.3
MS100L1-4	2.2	1440	380	4.90	84.3%	0.81	7.3	2.3	2.3
MS100L2-4	3	1440	380	6.50	85.5%	0.82	7.5	2.3	2.3
MS112M-4	4	1450	380	8.6	86.6%	0.82	7.5	2.3	2.3

MS71M1-6	0.18	935	380	0.73	56.6%	0.66	5.8	1.9	1.9
MS71M2-6	0.25	935	380	0.91	61.6%	0.68	5.8	1.9	2
MS80M1-6	0.37	935	380	1.19	67.6%	0.7	5.8	1.9	2
MS80M2-6	0.55	935	380	1.59	73.1%	0.72	5.8	1.9	2
MS90S-6	0.75	935	380	2.09	75.9%	0.72	5.8	2	2.1
MS90L-6	1.1	940	380	2.97	78.1%	0.72	5.9	2	2.1
MS100L-6	1.5	945	380	3.81	79.8%	0.75	5.9	2	2.1
MS112M-6	2.2	950	380	5.38	81.8%	0.76	6.2	2	2.1

The technical data of IE3 series aluminium shell three-phase asynchronous motors are the same as those of H63 ~ 160 in the technical data of IE3 series motors (refer to appendix I for outline installation dimensions)

## YE3 series aluminum motor's dimensions



### YE3- 63~160 B3, B5, B35

Frame Size	Mounting Dimer											Outline Dimensi													
	A	A2	B	C	D	DH	E	F	G	H	K	B5/B35					KK		AA	AB	BB	HA	AC	AD	L
	M	N	P	S	T	METRIC	PG	AA	AB	BB	HA	AC	AD	L											
YE3-63M	100	50	80	40	11	M4×10	23	4	8.5	63	7.0	115	95	140	10	3	1-M20×1.5	1-PG13.5	36	125	102	9	130	105	220
YE3-71M	112	56	90	45	14	M5×13	30	5	11.0	71	7.0	130	110	160	10	3.5	1-M20×1.5	1-PG13.5	40	140	115	10	145	115	255
YE3-80M	125	62.5	100	50	19	M6×16	40	6	15.5	80	10.0	165	130	200	12	3.5	1-M20×1.5	1-PG16	44	158	125	10	165	125	290
YE3-90S	140	70	100	56	24	M8×20	50	8	20.0	90	10.0	165	130	200	12	3.5	1-M20×1.5	1-PG16	50	175	130	12	185	135	320
YE3-90L	140	70	125	56	24	M8×20	50	8	20.0	90	10.0	165	130	200	12	3.5	1-M20×1.5	1-PG16	50	175	155	12	185	135	345
YE3-100L	160	80	140	63	28	M10×22	60	8	24.0	100	12.0	215	180	250	14.5	4	2-M20×1.5	2-PG16	54	200	175	13	205	155	380
YE3-112M	190	95	140	70	28	M10×22	60	8	24.0	112	12.0	215	180	250	14.5	4	2-M20×1.5	2-PG19	60	225	176	13	230	175	400
YE3-132S	216	108	140	89	38	M12×28	80	10	33.0	132	12.0	265	230	300	14.5	4	2-M20×1.5	2-PG19	65	255	185	16	270	190	475
YE3-132M	216	108	178	89	38	M12×28	80	10	33.0	132	12.0	265	230	300	14.5	4	2-M20×1.5	2-PG19	65	255	220	16	270	190	515
YE3-160M	254	127	210	108	42	M16×36	110	12	37.0	160	14.5	300	250	350	18.5	5	2-M30×1.5	2-PG29	55	302	259	18	330	245	625
YE3-160L	254	127	254	108	42	M16×36	110	12	37.0	160	14.5	300	250	350	18.5	5	2-M30×1.5	2-PG29	55	302	303	18	330	245	670

### YE3-63~160 B14A, B14B

Frame size	Mounting dimensic														Outline dimensions					
	D	DH	E	F	G	B14A					B14B				KK		AC	AD	L	
	M	N	P	S	T	M	N	P	S	T	METRIC	PG	AC	AD	L					
Y2-56	9	M3×10	20	3	7.2										1-M16×1.5	1-PG11			195	
YE3-63M	11	M4×10	23	4	8.5	75	60	90	M5	2.5	100.0	80	120	M6	3	1-M20×1.5	1-PG13.5	130	105	220
YE3-71M	14	M5×13	30	5	11	85	70	105	M6	2.5	115.0	95	140	M8	3	1-M20×1.5	1-PG13.5	145	115	255
YE3-80M	19	M6×16	40	6	15.5	100	80	120	M6	3	130.0	110	160	M8	3.5	1-M20×1.5	1-PG16	165	125	290
YE3-90S	24	M8×20	50	8	20	115	95	140	M8	3	130.0	110	160	M8	3.5	1-M20×1.5	1-PG16	185	135	320
YE3-90L	24	M8×20	50	8	20	115	95	140	M8	3	130.0	110	160	M8	3.5	1-M20×1.5	1-PG16	185	135	345
YE3-100L	28	M10×22	60	8	24	130	110	160	M8	3.5	165.0	130	200	M10	3.5	2-M20×1.5	2-PG16	205	155	380
YE3-112M	28	M10×22	60	8	24	130	110	160	M8	3.5	165.0	130	200	M10	3.5	2-M20×1.5	2-PG19	230	175	400
YE3-132S	38	M12×28	80	10	33	165	130	200	M10	3.5	215.0	180	250	M12	4	2-M20×1.5	2-PG19	270	190	470
YE3-132M	38	M12×28	80	10	33	165	130	200	M10	3.5	215.0	180	250	M12	4	2-M20×1.5	2-PG19	270	190	510
YE3-160M	42	M16×36	110	12	37	215	180	250	M12	4	265.0	230	300	M12	4	2-M30×1.5	2-PG29	330	245	625
YE3-160L	42	M16×36	110	12	37	215	180	250	M12	4	265.0	230	300	M12	4	2-M30×1.5	2-PG29	330	245	670



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