



# Nanyang YB2 Flameproof Three Phase Induction Motors



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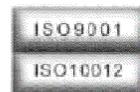
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Nemko



## General description

Att's YB2 Series Flameproof Three Phase Induction motors are uniquely designed to contain sparks within the motor without igniting external vapours. This makes them safe for use in hazardous locations. They are manufactured in China and certified in Norway.



## Standards and Specifications

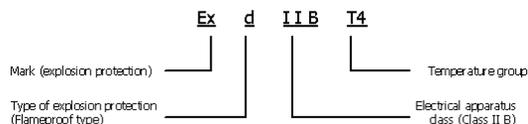
The main dimensions and rated outputs of the YB2 series motors conform to the specifications of the International Electrotechnical Commission, German DIN42673 and China National Standards.

These include the IEC79-1, BS4683, EN50018 and China National Standards GB3836.1-2000 and GB3836.2-2000.

## Explosion-Proof Markings

Its explosion-proof markings are as follows:

- Exd I: safe to use in non-mining surfaces of underground coal mines that may contain explosive mixtures of methane or coal dust.
- Exd II AT4: safe to use in plants where explosive mixtures of II A Class, T1, T2, T3, T4 are present.
- Exd II BT4: safe to use in plants where the explosive mixtures of II B Class, T1, T2, T3, T4 are present.
- Exd II CT4: safe to use in plants where explosive mixtures of II C Class, T1, T2, T3, T4 are present.



## Degree of Protection

The level of enclosure protection for YB2 series is IP55.

## Insulation Class

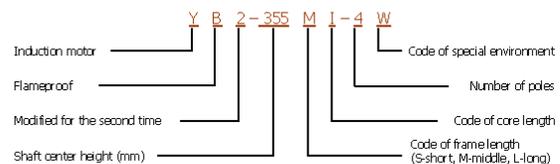
The YB2 series motors have F class insulation.

## Operating Parameters

YB2 series motors are designed with the following parameters:

- Continuous duty (S1)
- Rated Voltages: 380, 660, 1140, 380/660 and 660/1140 Volts
- 50Hz power supply
- Ambient temperature ranges between -20°C to 40°C
- Installation altitudes of up to 1000m above sea-level

## Product Code Specification



## Environment Code Specification

- YB2 : basic type, suitable for indoor environment.
- YB2-W : outdoor environment.
- YB2-TH : indoor tropical humid environment.
- YB2-THW : outdoor tropical humid environment.
- YB2-TA : indoor tropical arid environment.
- YB2-TAW : outdoor tropical arid environment.
- YB2-T : indoor tropical environment.
- YB2-TW : outdoor tropical environment.
- YB2-WF1 : outdoor middle-class chemical corrosion environment

## Bearings

Bearings provided are covered and well coupled with spring washers. For frame 160 and above, grease nipples are provided for easy maintenance. For frame 250 and above, space is provided for additional installation of bearing temperature sensors.

## Terminal Box

The terminal box of the YB2 series is proportionately sized for termination of cables and three types of entry forms. They are namely, rubber insulated cable, conduit entry and explosion-proof flexible pipe (armoured cable). See Table 1 Terminal Box Specifications.

Terminal box Specifications	Frame size	Number of entry	Max. outer diameter of inlet cable	Thread of conduit entry	Scope of supply
M4	63 - 71	One	? 0	M34*1.5	Normal
M5	80 - 132	One	? 5	M30*2	Normal
M6	160 - 180	One	? 5	M36*2	Normal
M8	200 - 225	One	? 2	M46*2	Normal
M8	200 - 225	One	? 2	M48*2	Abnormal
M10	250 - 280	One	? 0	M64*2	Normal
M10	250 - 280	One	? 2	M48*2	Abnormal
M16	315	One	? 0	M64*2	Normal
M16	355	One	? 5	M72*2	Normal

Table 1 Terminal Box Specifications

## Mounting

Types of Mounting available:

- B3: Foot-mounted and flangeless.
- B5: Flange-mounted and footless.
- B35: With both foot and flange mounted.
- B14: Footless and small flange-mounted.
- B34: With both foot and small flange mounted.

Based on the five mountings mentioned above, the YB2 series can be modified into 15 types of mounting arrangements (see Table 2 Types of Mounting Arrangements). For the mounting arrangements by frame sizes, see Table 3 Mounting Arrangements by Frame Size.

Mounting Arrangement	B3	B5	B6	B7	B8
Diagram					
Mounting Arrangement	B14	B34	B35	V1	V3
Diagram					
Mounting Arrangement	V5	V6	V15	V18	V36
Diagram					

Table 2 Types of Mounting Arrangements

Frame Size	Mounting Arrangements
63 - 71	B3, B5, B7, B8, B14, B34, V1, V3, V5, V6, V18
80 - 112	B3, B5, B6, B7, B8, B14, B34, B35, V1, V3, V5, V6, V15, V18, V36
132 - 160	B3, B5, B6, B7, B8, B35, V1, V3, V5, V6, V15, V36
180 - 280	B3, B5, B35, V1
315 - 355	B3, B35, V1

Table 3 Mounting Arrangements by Frame Size

## Technical Data

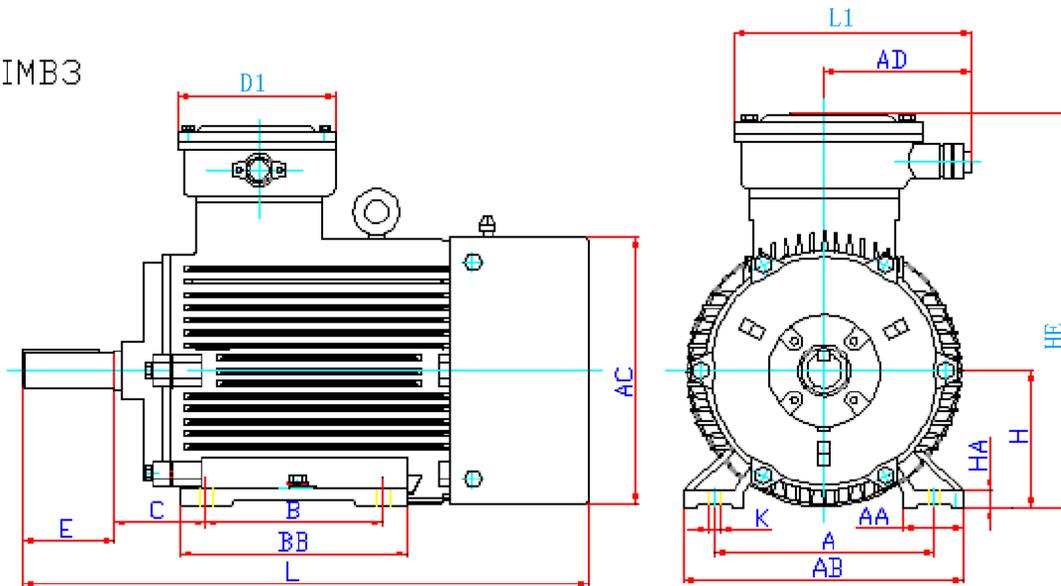
Frame Size		speed (r/min)							
		3000	1500	1000	750	600	500	428.6	375
		2P	4P	6P	8P	10P	12P	14P	16P
		output (kW)							
63	1	0.18	0.12	-	-				
	2	0.25	0.18						
71	1	0.37	0.25	0.18					
	2	0.55	0.37	0.25					
80	1	0.75	0.55	0.37	0.18				
	2	1.1	0.75	0.55	0.25				
90S		1.5	1.1	0.75	0.37				
90L		2.2	1.5	1.1	0.55				
100L	1	3	2.2	1.5	0.75				
	2		3		1.1				
112M		4	4	2.2	1.5				
132S	1	5.5	5.5	3	2.2				
	2	7.5							
132M	1	-	7.5	4	3				
	2			5.5					
160M	1	11	11	7.5	4				
	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				
	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	55	45	37	30
315L	1	160	160	110	90	75	55	45	37
	2	(185)	(185)	-	-	-	-	-	-
355S	1	(185)	(185)	160	132	(90)	75	75	55
	2	(200)	(200)						
355M	1	(220)	(220)	(185)	160	110	90	90	75
	2	250	250	200		132	110	110	90
355L	1	(280)	(280)	(220)	(185)	160	132	132	110
	2	315	315	250	200	(185)	160		

Note: 1. The values in brackets are the specifications that are not recommended.  
2. The numbers 1 and 2 following the letters S,M,L represent different output in the same frame size at the same speed.

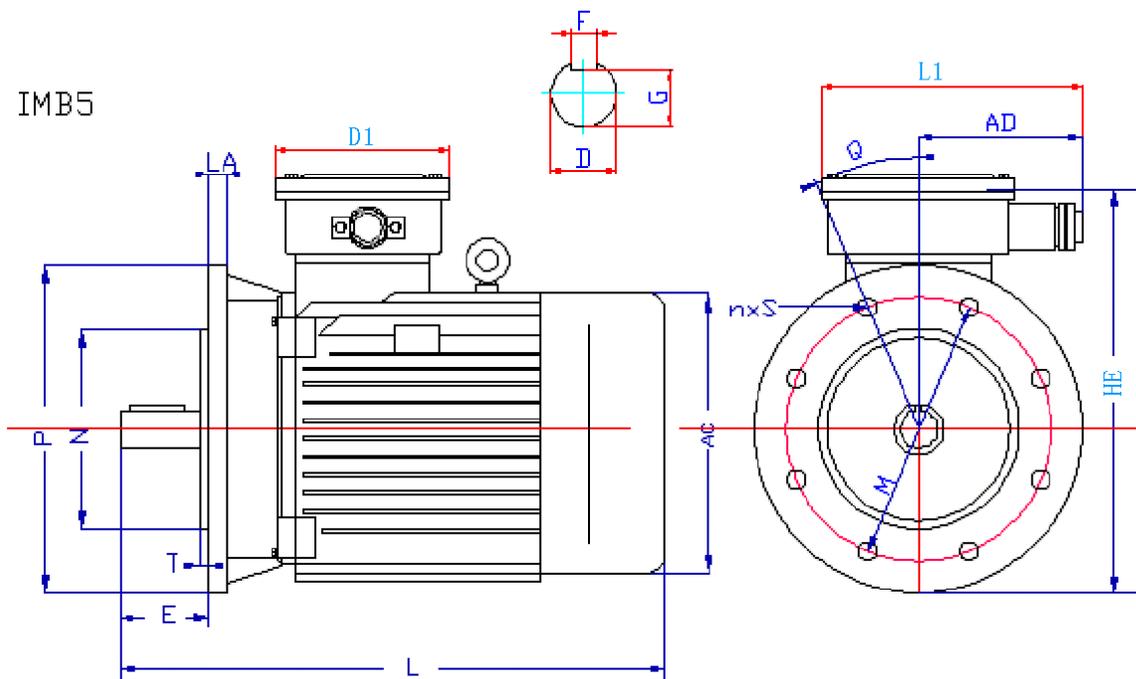
Table 4 Technical Data

# Dimension Drawings

IMB3

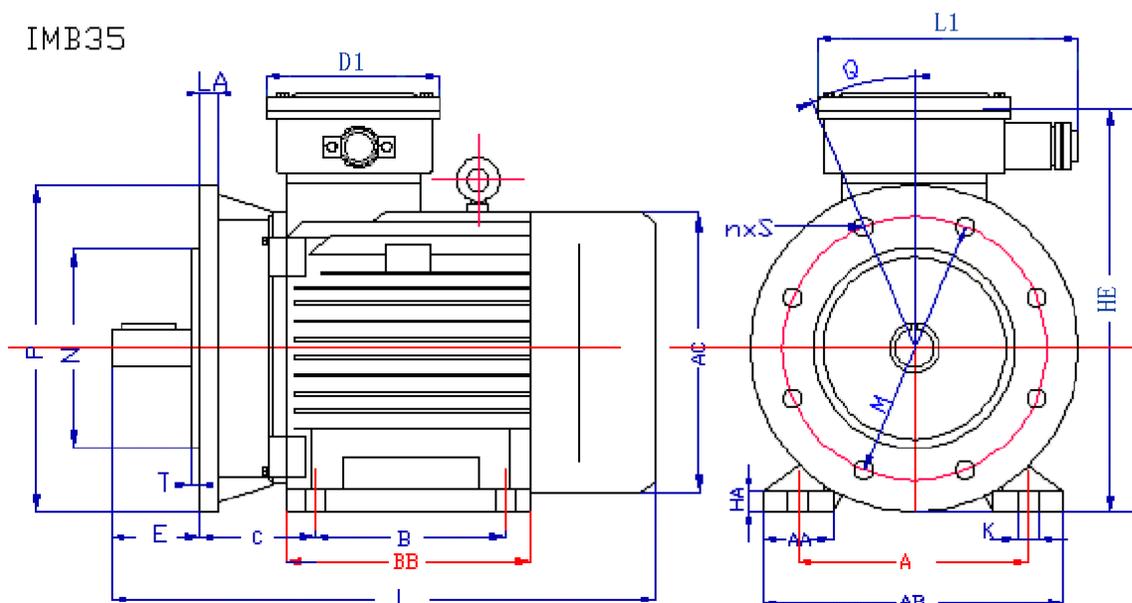


IMB5

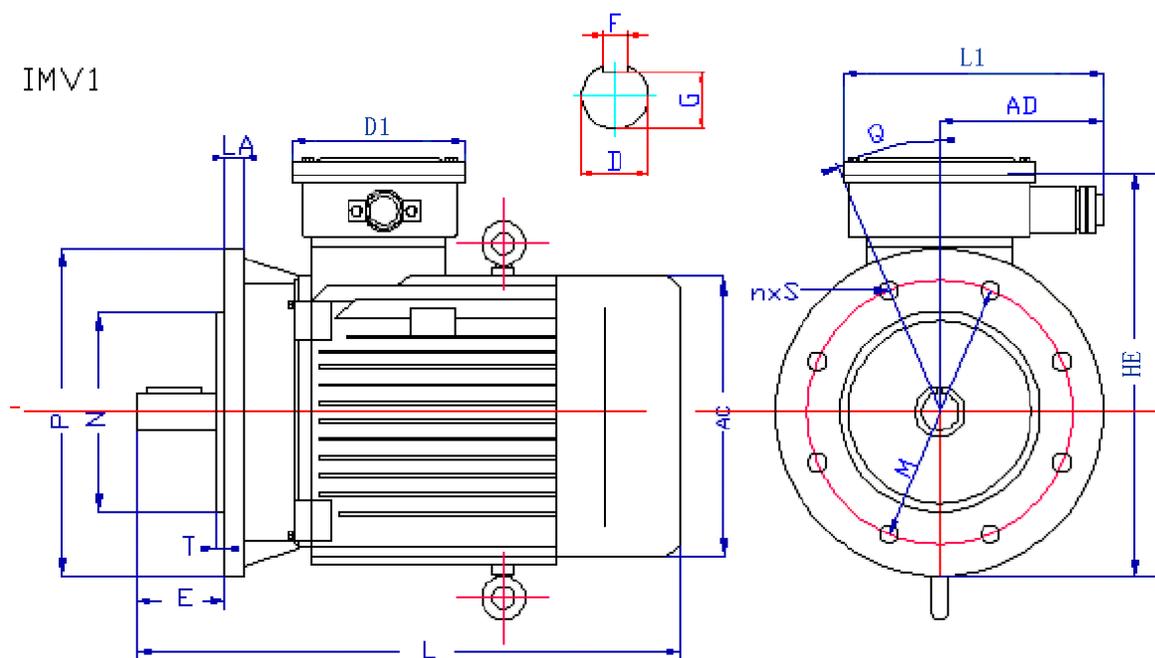


# Dimension Drawings

IMB35

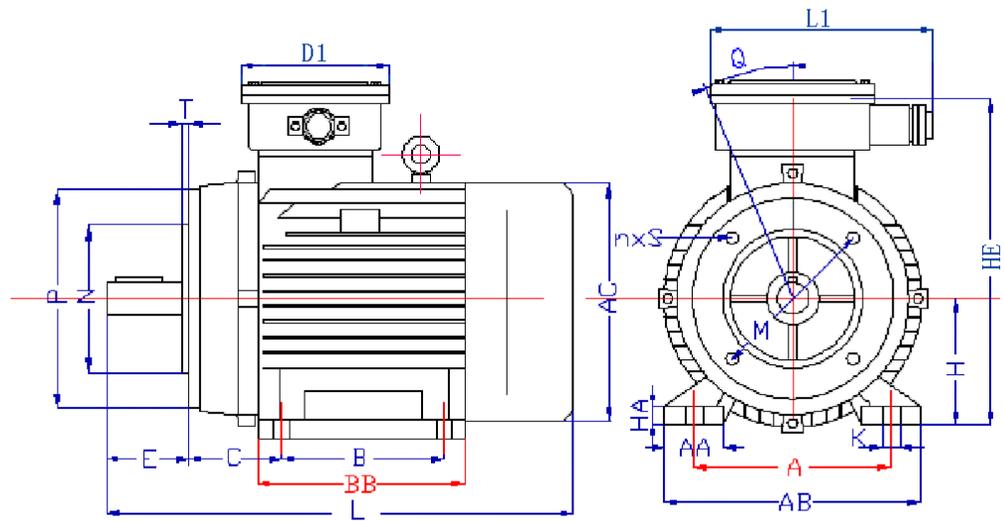


IMV1

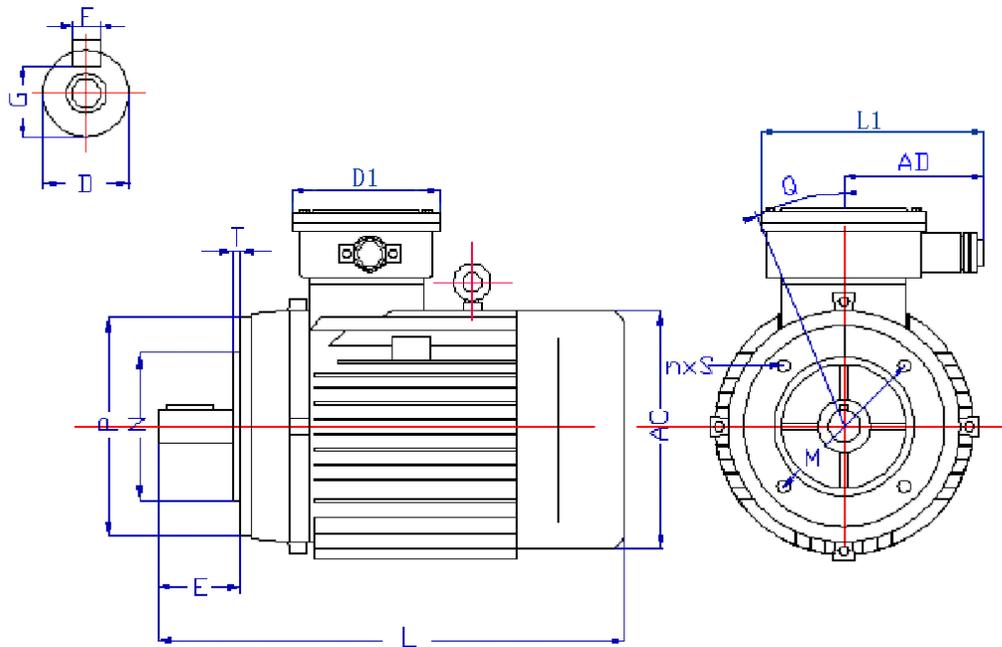


# Dimension Drawings

IMB34



IMB14



**MOUNTING DIMENSIONS:**

Frame Size	FRAME SIZE		MOUNTING AND OVERALL DIMENSIONS																					
	IMB35 IMB5 IMV1	IMB14 IMB34	A	B	C	POLES								H	K	AA	AB	AC	AD	BB	HA	HB	HE	LA
						D		E		F		G												
						2P	>4P	2P	>4P	2P	>4P	2P	>4P											
63	FF115	FF75	100	80	40	11	23	4	8.5	63	7	30	130	150	165	110	8	230	230	10				
71	FF130	FF85	112	90	45	14	30	5	11	71	7	32	140	155	165	130	8	240	240	12				
80	FF165	FF100	125	100	50	19	40	6	15.5	80	10	34	165	180	225	135	10	340	340	15				
90S	FF165	FF115	140	100	56	24	50	8	20	90	10	36	180	205	225	135	14	355	355	15				
90L	FF165	FF115	140	125	56	24	50	8	20	90	10	36	180	205	225	160	14	355	355	15				
100L	FF215	FF130	160	140	63	28	60	8	24	100	12	40	200	230	225	180	14	380	400	18				
112M	FF215	FF130	190	140	70	28	60	8	24	112	12	50	245	230	225	185	16	400	420	18				
132S	FF265	-	216	140	89	38	80	10	33	132	12	60	280	270	225	200	18	470	490	20				
132M	FF265	-	216	178	89	38	80	10	33	132	12	60	280	270	225	240	18	470	490	20				
160M	FF300	-	254	210	108	42	110	12	37	160	15	70	330	325	240	270	20	530	530	20				
160L	FF300	-	254	254	108	42	110	12	37	160	15	70	330	325	240	314	20	530	530	20				
180M	FF300	-	279	241	121	48	110	14	42.5	180	15	70	355	360	240	325	22	565	645	20				
180L	FF300	-	279	279	121	48	110	14	42.5	180	15	70	355	360	240	365	22	565	645	20				
200L	FF350	-	318	305	133	55	110	16	49	200	19	70	390	400	290	370	25	645	750	22				
225S	FF400	-	356	286	149	55	60	110	140	16	18	49	53	225	19	75	435	450	290	370	28	690	750	22
225M	FF400	-	356	311	149	55	60	110	140	16	18	49	53	225	19	75	435	450	290	395	28	690	750	22
250M	FF500	-	406	349	168	60	65	140	140	18	18	53	58	250	24	80	490	500	350	425	30	770	880	25
280S	FF500	-	457	368	190	65	75	140	140	18	20	58	67.5	280	24	85	545	560	350	450	35	830	910	25
280M	FF500	-	457	419	190	65	75	140	140	18	20	58	67.5	280	24	85	545	560	350	500	35	830	910	25
315S	FF600	-	508	406	216	65	80	140	170	18	22	58	71	315	28	132	640	630	480	540	38	1050	1000	28
315M	FF600	-	508	457	216	65	80	140	170	18	22	58	71	315	28	132	640	630	480	590	38	1050	1000	28
315L	FF600	-	508	508	216	65	80	140	170	18	22	58	71	315	28	132	640	630	480	640	38	1050	1000	28
355S	FF740	-	610	500	254	75	95	140	170	20	25	67.5	86	355	28	150	740	750	480	710	42	1150	1140	30
355M	FF740	-	610	560	254	75	95	140	170	20	25	67.5	86	355	28	150	740	750	480	770	42	1150	1140	30
355L	FF740	-	610	630	254	75	95	140	170	20	25	67.5	86	355	28	150	740	750	480	840	42	1150	1140	30

Frame Size	MOUNTING AND OVERALL DIMENSIONS										MOUNTING AND OVERALL DIMENSIONS											
	NO. OF CABLE ENTRY		L				FLANGE DIMENSIONS															
	SINGER	DOUBLE	2P		>4P		IMB35,IMB5,IMV1					IMB35,IMB5,IMV1					D1	L1				
			OTHERS	V1	OTHERS	V1	M	N	P	R	Q	Π X S	T	M	N	P			R	Q	Π X S	T
63	M34x1.5	-	270	310	270	310	115	95	140	0	45°	4XØ10	3.0	75	60	90	0	45	4XM5	2.5	210	290
71	M34x1.5	-	300	340	300	340	130	110	160	0	45°	4XØ10	3.0	85	70	105	0	45	4XM6	2.5	210	290
80	M30x2	-	330	375	330	375	165	130	200	0	45°	4XØ12	3.5	100	80	120	0	45	4XM6	3	210	290
90S	M30x2	-	360	405	360	405	165	130	200	0	45°	4XØ12	3.5	115	95	140	0	45	4XM8	3	210	290
90L	M30x2	-	385	430	385	430	165	130	200	0	45°	4XØ15	3.5	115	95	140	0	45	4XM8	3	210	290
100L	M30x2	-	430	485	430	485	215	180	250	0	45°	4XØ15	4.0	130	110	160	0	45	4XM8	3.5	210	290
112M	M30x2	-	460	520	460	520	215	180	250	0	45°	4XØ15	4.0	130	110	160	0	45	4XM8	3.5	210	290
132S	M30x2	-	515	585	515	585	265	230	300	0	45°	4XØ15	4.0	-	-	-	-	-	-	-	210	290
132M	M30x2	-	550	630	550	630	265	230	300	0	45°	4XØ19	4.0	-	-	-	-	-	-	-	210	290
160M	M36x2	-	670	745	670	745	300	250	350	0	45°	4XØ19	5.0	-	-	-	-	-	-	-	230	390
160L	M36x2	-	710	780	710	780	300	250	350	0	45°	4XØ19	5.0	-	-	-	-	-	-	-	230	390
180M	M36x2	-	730	800	730	800	300	250	350	0	45°	4XØ19	5.0	-	-	-	-	-	-	-	230	390
180L	M36x2	-	750	820	750	820	300	250	350	0	45°	4XØ19	5.0	-	-	-	-	-	-	-	230	390
200L	M48x2	M48x2	810	885	810	885	350	300	400	0	45°	4XØ19	5.0	-	-	-	-	-	-	-	260	430
225S	M48x2	M48x2	-	-	845	915	400	350	450	0	22.5°	4XØ19	5.0	-	-	-	-	-	-	-	260	430
225M	M48x2	M48x2	840	910	870	940	400	350	450	0	22.5°	4XØ19	5.0	-	-	-	-	-	-	-	260	430
250M	M64x2	M48x2	950	1045	950	1045	500	450	550	0	22.5°	4XØ19	5.0	-	-	-	-	-	-	-	330	510
280S	M64x2	M48x2	990	1100	1010	1120	500	450	550	0	22.5°	4XØ19	5.0	-	-	-	-	-	-	-	330	510
280M	M64x2	M48x2	1040	1160	1060	1180	500	450	550	0	22.5°	4XØ19	5.0	-	-	-	-	-	-	-	330	510
315S	M85x2	M64x2	1330	1450	1360	1480	600	550	660	0	22.5°	4XØ24	6.0	-	-	-	-	-	-	-	420	700
315M	M85x2	M64x2	1360	1465	1390	1510	600	550	660	0	22.5°	4XØ24	6.0	-	-	-	-	-	-	-	420	700
315L	M85x2	M64x2	1500	1640	1530	1650	600	550	660	0	22.5°	4XØ24	6.0	-	-	-	-	-	-	-	420	700
355S	M85x2	M72x2	1520	1660	1570	1720	740	680	800	0	22.5°	4XØ24	6.0	-	-	-	-	-	-	-		
355M	M85x2	M72x2	1600	1740	1650	1800	740	680	800	0	22.5°	4XØ24	6.0	-	-	-	-	-	-	-		
355L	M85x2	M72x2	1700	1840	1750	1900	740	680	800	0	22.5°	4XØ24	6.0	-	-	-	-	-	-	-		

**Table 5: Technical Specification**

## PERFORMANCE DATA (2P 3000RPM):

Type	Rating			Efficiency %			Power factor COS $\phi$			Locked Rotor	Locked Rotor	Pull out	Noise	Vibration	Inertia	Weight kg
	Output kW	Current (380V)A	Speed r/min	Load			Load			Torque	Current	Torque	dB(A)	class mm/s	movement kg.m	
				1	0.75	0.5	1	0.75	0.5	Rated torque	Rated Current	Rated Torque				
Synchronous speed 3000r/min																
YB2-631-2	0.18	0.52	2800	66	67	65	0.8	0.72	0.59	2.2	5	2.3	61	1.8		
YB2-632-2	0.25	0.69	2800	68	70	69	0.81	0.74	0.61	2.2	5	2.3	61	1.8		
YB2-711-2	0.37	0.99	2800	70	73	69.8	0.81	0.75	0.64	2.2	5.5	2.3	64	1.8		
YB2-712-2	0.55	1.38	2800	73	76	72.6	0.83	0.78	0.68	2.2	5.5	2.3	64	1.8		
YB2-801-2	0.75	1.83	2825	75	75	74.8	0.83	0.77	0.65	2.2	6	2.3	67	1.8	0	22
YB2-802-2	1.1	2.55	2825	78	79.2	77.6	0.84	0.79	0.69	2.2	6	2.3	67	1.8	0.01	24
YB2-90S-2	1.5	3.43	2840	79	80	79.8	0.84	0.79	0.7	2.2	7	2.3	72	1.8	0.01	33
YB2-90L-2	2.2	4.85	2840	81	82	80.8	0.85	0.82	0.75	2.2	7	2.3	72	1.8	0.01	37
YB2-100L-2	3	6.24	2880	83	83.2	82.8	0.88	0.84	0.75	2.2	7	2.3	76	1.8	0.02	43
YB2-112M-2	4	8.12	2890	85	85.6	84.8	0.88	0.84	0.76	2.2	7	2.3	77	1.8	0.03	54
YB2-132S1-2	5.5	11	2900	86	86.7	86.5	0.88	0.84	0.77	2.2	7.5	2.3	80	1.8	0.06	79
YB2-132S2-2	7.5	14.9	2900	87	88	87.8	0.88	0.85	0.79	2.2	7.5	2.3	80	1.8	0.07	87
YB2-160M1-2	11	21.5	2930	88.4	88.6	88.1	0.88	0.85	0.78	2.2	7.5	2.4	86	2.8	0.21	140
YB2-160M2-2	15	28.6	2930	89.4	89.8	89.2	0.89	0.87	0.82	2.2	7.5	2.4	86	2.8	0.25	152
YB2-160L-2	18.5	35.1	2930	90	90.4	89.6	0.89	0.88	0.84	2.2	7.5	2.4	86	2.8	0.31	168
YB2-180M-2	22	41	2940	90.5	90.5	89.8	0.9	0.86	0.78	2	7.5	2.3	89	2.8	0.37	220
YB2-200L1-2	30	55.4	2950	91.4	91.6	91	0.9	0.87	0.81	2	7.5	2.4	92	2.8	0.63	290
YB2-200L2-2	37	67.9	2950	92	92.1	91.6	0.9	0.88	0.82	2	7.5	2.4	92	2.8	0.73	305
YB2-225M-2	45	82.1	2970	92.5	92.5	92	0.9	0.88	0.82	2	7.5	2.3	92	2.8	1.28	400
YB2-250M-2	55	99.8	2970	93	93	92.4	0.9	0.88	0.83	2.1	7.5	2.3	93	3.5	1.55	460
YB2-280S-2	75	133.8	2970	93.6	93.6	93	0.91	0.89	0.84	2	7.5	2.3	94	3.5	1.89	625
YB2-280M-2	90	160	2970	93.9	93.9	93.3	0.91	0.87	0.82	2.1	7.5	2.3	94	3.5	2.02	728
YB2-315S-2	110	195.4	2980	94	93.8	93	0.91	0.9	0.84	1.8	7	2.3	96	3.5	2.26	1100
YB2-315M-2	132	233.2	2980	94.5	94.3	93.6	0.91	0.89	0.85	1.8	7	2.3	96	3.5	2.42	1160
YB2-315L1-2	160	279.3	2980	94.6	94.4	93.8	0.92	0.91	0.86	1.8	7	2.3	99	3.5	2.76	1350
YB2-315L-2	185	323	2980	94.6	94.4	94	0.92	0.91	0.87	1.8	7	2.3	99	3.5	3.22	1500
YB2-355S2-2	200	348.4	2980	94.8	94.7	94.4	0.92	0.91	0.87	1.8	7	2.3	99	3.5	4.82	1690
YB2-355M1-2	220	383.2	2980	94.8	94.8	94.6	0.92	0.91	0.88	1.6	7	2.4	103	3.5	5.46	1840
YB2-355M2-2	250	433.2	2980	95.3	95.3	94.9	0.92	0.91	0.88	1.6	7	2.4	103	3.5	6.22	2100
YB2-355L1-2	280	485.2	2980	95.3	95.3	94.9	0.92	0.91	0.88	1.6	7	2.4	103	3.5	6.54	2260
YB2-355L2-2	315	544.1	2980	95.6	95.5	95.2	0.92	0.91	0.88	1.6	7	2.4	103	3.5	6.95	2320

**PERFORMANCE DATA (4P 1500RPM):**

Type	Rating			Efficiency %			Power factor COS φ			Locked Rotor Torque Rated torque	Locked Rotor Current Rated Current	Pull out Torque Rated Torque	Noise dB(A)	Vibration class mm/s	Inertia movement kg m <sup>2</sup>	Weight kg
	Out put kW	Current (380V)A	Speed r/min	Load			Load									
				1	0.75	0.5	1	0.75	0.5							
Synchronous speed 1500r/min																
YB2-631-4	0.12	0.44	1380	58	59	56	0.72	0.62	0.49	2	4	2.2	52	1.8		
YB2-632-4	0.18	0.59	1380	63	63.9	61	0.73	0.63	0.51	2	4	2.2	52	1.8		
YB2-711-4	0.25	0.78	1380	66	67	65.8	0.74	0.65	0.53	2	4	2.2	55	1.8		
YB2-712-4	0.37	1.09	1380	69	71	68.9	0.75	0.67	0.56	2	4	2.2	55	1.8		
YB2-801-4	0.55	1.57	1390	71	71.5	70.2	0.75	0.68	0.55	2.4	5	2.3	58	1.8	0.01	22
YB2-802-4	0.75	2.03	1390	73	74	72.6	0.77	0.71	0.59	2.4	5	2.3	58	1.8	0.01	24
YB2-90S-4	1.1	2.89	1400	75	76	74.8	0.77	0.71	0.6	2.3	6	2.3	61	1.8	0.01	33
YB2-90L-4	1.5	3.7	1400	78	79	77.6	0.79	0.73	0.62	2.3	6	2.3	61	1.8	0.02	37
YB2-100L1-4	2.2	5.16	1420	80	80.5	79.6	0.81	0.76	0.65	2.3	6	2.4	64	1.8	0.03	43
YB2-100L2-4	3	6.78	1420	82	83	81.6	0.82	0.77	0.67	2.3	6	2.4	64	1.8	0.04	47
YB2-112M-4	4	8.82	1440	84	85	83.6	0.82	0.77	0.67	2.3	6	2.4	65	1.8	0.06	58
YB2-132S-4	5.5	11.6	1440	86	87	86.9	0.84	0.79	0.69	2.3	7	2.4	71	1.8	0.11	80
YB2-132M-4	7.5	15.4	1440	87	88	87.8	0.85	0.81	0.73	2.3	7	2.4	71	1.8	0.17	95
YB2-160M-4	11	22.3	1460	88	88.5	87.6	0.85	0.81	0.71	2.2	7	2.4	75	2.8	0.36	150
YB2-160L-4	15	30.1	1460	89	89.7	88.6	0.85	0.82	0.75	2.2	7	2.4	75	2.8	0.42	168
YB2-180M-4	18.5	36.5	1470	90.5	90.9	90.2	0.85	0.81	0.72	2.2	7	2.3	76	2.8	0.68	220
YB2-180L-4	22	43.1	1470	91.2	91.6	91	0.85	0.82	0.73	2.2	7	2.3	76	2.8	0.07	242
YB2-200L-4	30	57.6	1470	92	92.2	91.6	0.86	0.82	0.74	2.2	7.2	2.4	79	2.8	0.81	335
YB2-225S-4	37	69.9	1480	92.5	92.6	92	0.87	0.83	0.74	2.2	7.2	2.4	81	2.8	1.21	400
YB2-225M-4	45	84.7	1480	92.8	92.8	91.4	0.87	0.83	0.75	2.2	7.2	2.4	81	2.8	1.85	415
YB2-250M-4	55	103.3	1480	93	93.2	92.8	0.87	0.84	0.77	2.2	7.2	2.4	83	3.5	2.32	560
YB2-280S-4	75	139.6	1480	93.8	93.9	93.5	0.87	0.85	0.79	2.2	7.2	2.4	86	3.5	2.86	665
YB2-280M-4	90	166.8	1485	94.2	94.2	93.6	0.87	0.85	0.78	2.2	7.2	2.4	86	3.5	3.34	780
YB2-315S-4	110	198.7	1485	94.5	94.4	93.8	0.89	0.87	0.81	2.1	7	2.4	93	3.5	4.68	1150
YB2-315M-4	132	237.7	1485	94.8	94.7	94.2	0.89	0.88	0.84	2.1	7	2.4	93	3.5	4.96	1200
YB2-315L1-4	160	284.3	1485	95	94.9	94.4	0.9	0.88	0.83	2.1	7	2.4	97	3.5	5.22	1320
YB2-315L-4	185	328.7	1485	95	94.9	94.7	0.9	0.88	0.85	2.1	7	2.4	97	3.5	5.43	1420
YB2-315L2-4	200	354.6	1485	95.2	95	94.7	0.9	0.88	0.85	2.1	7	2.3	97	3.5	5.62	1500
YB2-355S1-4	185	328.7	1488	95	94.8	94.6	0.9	0.89	0.84	2.1	7	2.4	97	3.5	6.45	1700
YB2-355S2-4	200	354.6	1488	95.2	95.1	94.7	0.9	0.88	0.84	2.1	7	2.3	97	3.5	6.56	1800
YB2-355M1-4	220	390.1	1488	95.2	95.1	94.8	0.9	0.89	0.85	2.1	7	2.4	101	3.5	6.88	1830
YB2-355M2-4	250	441.9	1488	95.5	95.4	95.2	0.9	0.89	0.86	2.1	7	2.4	101	3.5	7.22	1940
YB2-355L1-4	280	494.9	1488	95.5	95.4	95.2	0.9	0.89	0.86	2.1	7	2.4	101	3.5	7.46	2080
YB2-355L2-4	315	556.2	1488	95.6	95.5	95.3	0.9	0.89	0.86	2.1	7	2.4	101	3.5	7.68	2260

**PERFORMANCE DATA (6P 1000RPM) :**

Type	Rating			Efficiency %			Power factor COS φ			Locked Rotor Torque Rated torque	Locked Rotor Current Rated Current	Pull out Torque Rated Torque	Noise dB(A)	Vibration class mm/s	Inertia movement kg m <sup>2</sup>	Weight kg
	Out put kW	Current (380V)A	Speed r/min	Load			Load									
				1	0.75	0.5	1	0.75	0.5							
Synchronous speed 1000r/min																
YB2-711-6	0.18	0.67	910	62	61.7	57.5	0.66	0.57	0.45	1.9	4	2.1	52	1.8		
YB2-712-6	0.25	0.89	910	63	63	60	0.68	0.59	0.46	1.9	4	2.1	52	1.8		
YB2-801-6	0.37	1.27	910	63	63.2	60	0.7	0.6	0.48	1.9	4	2.1	54	1.8		
YB2-802-6	0.55	1.76	910	66	67.1	65.8	0.72	0.63	0.5	1.9	4	2.1	54	1.8		
YB2-90S-6	0.75	2.29	910	69	70	68	0.72	0.63	0.51	2.1	4	2.1	57	1.8		
YB2-90L-6	1.1	3.14	910	73	74	72.7	0.73	0.65	0.52	2.1	5	2.1	57	1.8		
YB2-100L-6	1.5	3.95	940	76	77.2	75.2	0.76	0.69	0.57	2.1	5	2.1	61	1.8		
YB2-112M-6	2.2	5.57	940	79	80	78.6	0.76	0.69	0.58	2.1	5	2.1	65	1.8		
YB2-132S-6	3	7.31	960	81	83.9	83.2	0.77	0.71	0.59	2.1	6	2.4	69	1.8		
YB2-132M1-6	4	9.39	960	83	85.7	85.1	0.78	0.71	0.59	2.1	6	2.4	69	1.8		
YB2-132M2-6	5.5	12.6	960	85	86	85.2	0.78	0.72	0.6	2.1	6.5	2.4	69	1.8		
YB2-160M-6	7.5	16.8	970	86	86.7	85.9	0.79	0.73	0.63	2.1	6.5	2.4	73	2.8	0.46	154
YB2-160L-6	11	24.2	970	87.5	88	87.2	0.79	0.75	0.65	2.1	6.5	2.4	73	2.8	0.61	176
YB2-180L-6	15	31.6	970	89	89.7	88.9	0.81	0.77	0.67	2.1	7	2.1	73	2.8	1.01	225
YB2-200L1-6	18.5	37.6	970	90	90.4	89.8	0.83	0.79	0.7	2.2	7	2.4	76	2.8	1.62	290
YB2-200L2-6	22	44.7	970	90	90.5	89.7	0.83	0.79	0.7	2.2	7	2.4	76	2.8	1.84	315
YB2-225M-6	30	57.6	980	92	92.4	91.8	0.86	0.83	0.76	2.1	7	2.4	76	2.8	2.43	410
YB2-250M-6	37	71	980	92	92.3	91.8	0.86	0.83	0.77	2.1	7	2.4	78	3.5	2.68	525
YB2-280S-6	45	85.9	980	92.5	92.6	92.2	0.86	0.83	0.76	2.1	7	2.4	80	3.5	3.46	635
YB2-280M-6	55	104.7	980	92.8	92.8	92	0.86	0.84	0.79	2.1	7	2.3	80	3.5	3.97	730
YB2-315S-6	75	141.7	985	93.5	93.3	92.6	0.86	0.83	0.74	2	7	2.2	85	3.5	4.57	1080
YB2-315M-6	90	169.5	985	93.8	93.6	93.2	0.86	0.83	0.76	2	7	2.2	85	3.5	4.83	1140
YB2-315L1-6	110	206.7	985	94	93.8	93.4	0.86	0.84	0.77	2	7	2.2	85	3.5	5.32	1310
YB2-315L2-6	132	244.7	985	94.2	94	93.6	0.87	0.85	0.78	2	7	2.2	85	3.5	5.95	1400
YB2-355S-6	160	292.3	985	94.5	94.4	94.1	0.88	0.86	0.81	2	7	2.2	92	3.5	7.32	1650
YB2-355M1-6	185	338	985	94.5	94.4	94.1	0.88	0.87	0.82	2	7	2.2	92	3.5	7.89	1760
YB2-355M2-6	200	364.6	985	94.7	94.6	94.3	0.88	0.87	0.82	2	7	2.2	92	3.5	8.17	1970
YB2-355L1-6	220	401.1	985	94.7	94.6	94.4	0.88	0.87	0.83	2	7	2.2	92	3.5	8.25	2140
YB2-355L2-6	250	454.3	985	95	94.9	94.5	0.88	0.87	0.83	2	7	2.2	92	3.5	8.36	2250

## PERFORMANCE DATA (8P 750RPM):

Type	Rating			Efficiency %			Power factor COS $\phi$			Locked Rotor Torque Rated torque	Locked Rotor Current Rated Current	Pull out Torque Rated torque	Noise dB(A)	Vibration class mm/s	Inertia movement kg.m <sup>2</sup>	Weight kg
	Output kW	Current (380V)A	Speed r/min	Load			Load									
				1	0.75	0.5	1	0.75	0.5							
Synchronous speed 750r/min																
YB2-801-8	0.18	0.86	710	52	50	45	0.61	0.52	0.42	1.8	3.3	1.9	52	1.8		
YB2-802-8	0.25	1.13	710	55	54	48	0.61	0.52	0.41	1.8	3.3	1.9	52	1.8		
YB2-90S-8	0.37	1.44	710	63	62.8	58	0.62	0.52	0.41	1.8	4	2	56	1.8		
YB2-90L-8	0.55	2.07	710	64	63.6	61	0.63	0.52	0.41	1.8	4	2	56	1.8		
YB2-100L1-8	0.75	2.36	710	71	71	68.4	0.68	0.58	0.46	1.8	4	2	59	1.8		
YB2-100L2-8	1.1	3.32	710	73	73.6	72	0.69	0.6	0.47	1.8	4	2	59	1.8		
YB2-112M-8	1.5	4.4	710	75	76.2	74.8	0.69	0.61	0.48	1.8	4	2	61	1.8		
YB2-132S-8	2.2	5.8	710	79	80	79	0.73	0.65	0.52	1.8	5.5	2.2	64	1.8		
YB2-132M-8	3	7.71	710	81	82	79.9	0.73	0.65	0.52	1.8	5.5	2.2	64	1.8		
YB2-160M1-8	4	10.3	720	81	81.7	80.7	0.73	0.65	0.53	1.9	6	2.2	68	2.8	0.32	132
YB2-160M2-8	5.5	13.4	720	83	83.7	82.8	0.75	0.67	0.55	1.9	6	2.2	68	2.8	0.46	144
YB2-160L-8	7.5	17.6	720	85	86.8	84.6	0.76	0.69	0.57	1.9	6	2.2	68	2.8	0.61	175
YB2-180L-8	11	25.3	730	87	87.4	86.7	0.76	0.69	0.58	1.9	6	2.2	70	2.8	1.06	225
YB2-200L-8	15	33.7	730	89	89.2	88.4	0.76	0.69	0.58	2	6.5	2.2	73	2.8	1.6	315
YB2-225S-8	18.5	40	730	90	90.3	89.7	0.78	0.73	0.63	2	6.5	2.2	73	2.8	2.28	375
YB2-225M-8	22	47.4	730	90.5	90.8	89.3	0.78	0.73	0.63	2	6.5	2.2	73	2.8	2.74	395
YB2-250M-8	30	63.4	730	91	91.5	89.8	0.79	0.75	0.65	1.9	6.5	2	75	3.5	3.67	530
YB2-280S-8	37	77.8	740	91.5	91.7	91	0.79	0.74	0.65	1.8	6	2	76	3.5	5.16	605
YB2-280M-8	45	94.1	740	92	92.3	91.7	0.79	0.75	0.66	1.8	6	2	76	3.5	5.82	700
YB2-315S-8	55	111.2	740	92.8	92.5	91.2	0.81	0.73	0.64	1.9	6.5	2.2	82	3.5	6.74	920
YB2-315M-8	75	151.3	740	93	92.7	91.8	0.81	0.75	0.65	1.9	6.5	2.2	82	3.5	7.35	1100
YB2-315L1-8	90	177.8	740	93.8	93.6	92.3	0.82	0.76	0.66	1.9	6.5	2.2	82	3.5	8.79	1120
YB2-315L2-8	110	216.8	740	94	93.7	92.7	0.82	0.76	0.66	1.9	6.5	2.2	82	3.5	9.18	1300
YB2-355S-8	132	259.6	740	94.2	94.1	93.5	0.82	0.78	0.7	2	6.5	2.2	90	3.5	10.19	1640
YB2-355M-8	160	313.4	740	94.6	94.5	93.9	0.82	0.78	0.7	2	6.5	2.2	90	3.5	11.24	1820
YB2-355L1-8	185	362.3	740	94.6	94.5	94.2	0.82	0.8	0.73	2	6.5	2.2	90	3.5	12.48	2100
YB2-355L2-8	200	386.2	740	94.8	94.7	94.1	0.83	0.8	0.72	2	6.5	2.2	90	3.5	13.56	2200

## PERFORMANCE DATA (10P 600RPM):

Type	Rating			Efficiency %			Power factor COS $\phi$			Locked Rotor Torque Rated torque	Locked Rotor Current Rated Current	Pull out Torque Rated Torque	Noise dB(A)	Vibration class mm/s	Inertia movement kg.m <sup>2</sup>	Weight kg
	Output kW	Current (380V)A	Speed r/min	Load			Load									
				1	0.75	0.5	1	0.75	0.5							
Synchronous speed 600r/min																
YB2-315S-10	45	99.1	585	92	91.8	91.2	0.75	0.7	0.61	1.5	6	2.1	82	2.8		
YB2-315M-10	55	121.1	585	92	91.8	91.1	0.75	0.7	0.61	1.5	6	2.1	82	2.8		
YB2-315L1-10	75	162.1	585	92.5	92.3	91.7	0.76	0.72	0.62	1.5	6	2.1	82	2.8		
YB2-315L2-10	90	190.9	585	93	92.8	92.2	0.77	0.73	0.64	1.5	6	2.1	82	2.8		
YB2-355S-10	90	190.9	585	93	92.7	91.8	0.77	0.72	0.62	1.5	6	2.1	82	2.8		
YB2-355M1-10	110	229.9	585	93.2	93.1	92.2	0.78	0.73	0.62	1.3	5.5	2.1	90	2.8		
YB2-355M2-10	132	275	585	93.5	93.3	92.3	0.78	0.72	0.62	1.3	5.5	2.1	90	2.8		
YB2-355L1-10	160	333	585	93.6	93.4	92.5	0.78	0.73	0.63	1.3	5.5	2.1	90	2.8		
YB2-355L2-10	185	385	585	93.6	93.5	92.7	0.78	0.74	0.64	1.3	5.5	2.1	90	2.8		

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