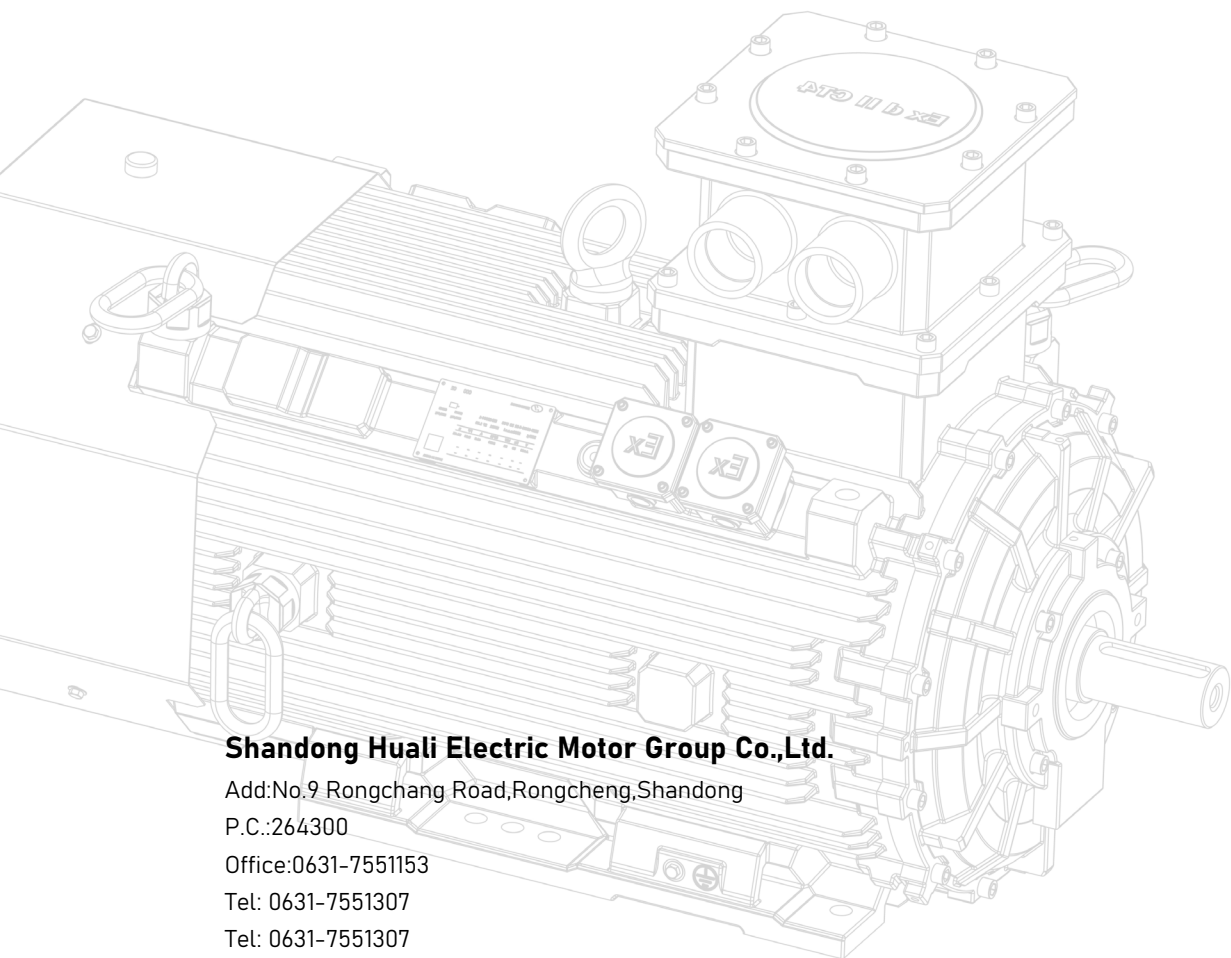




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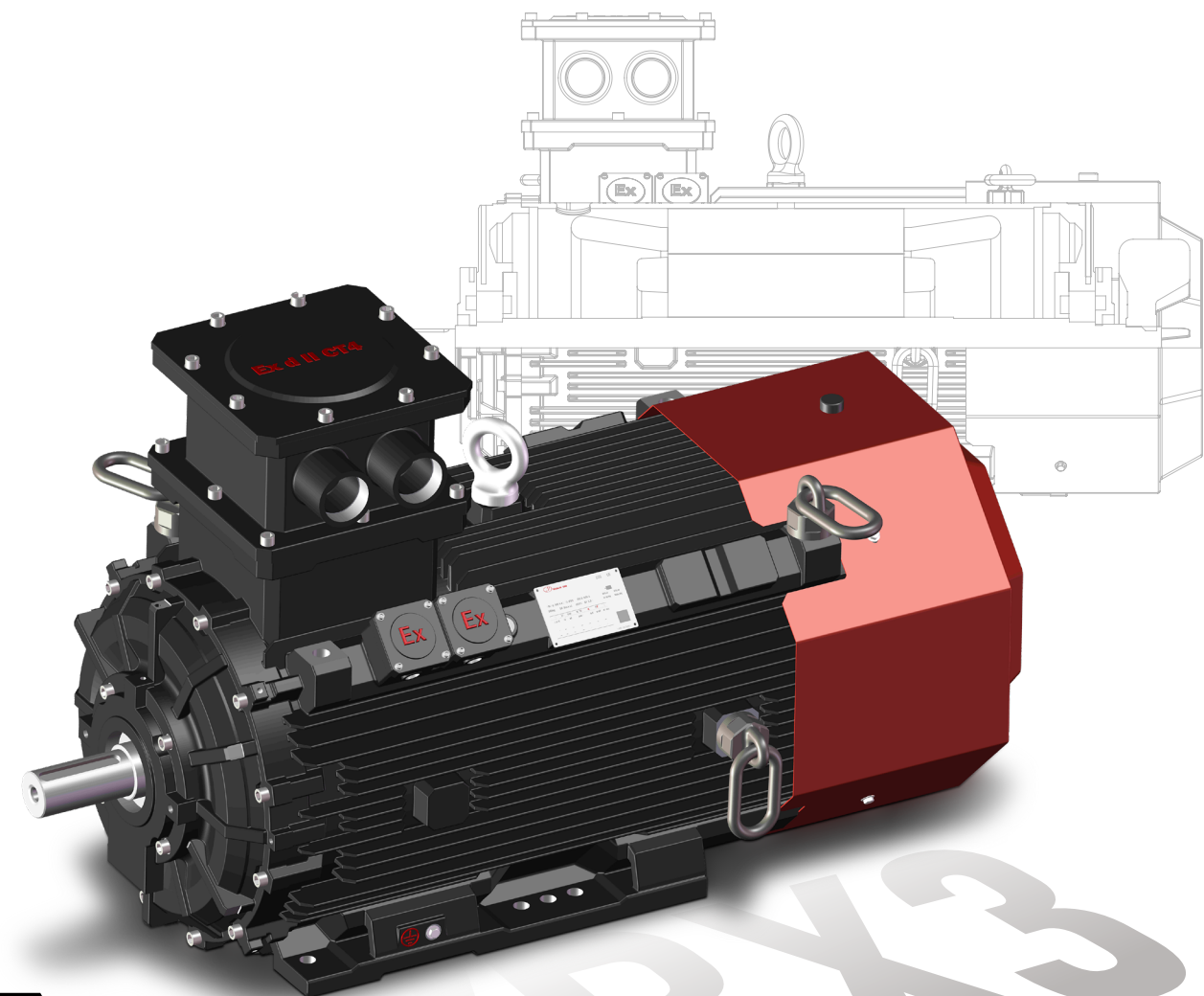
Department of Technology:0512-88186834

Ordering Instruction:

This catalogue is only a reference for users. The date may be changed, please contact us before ordering.
Please type rated output, synchronous speed, voltage and frequency, insulation class, mounting type etc, when ordering.
For special requirement, please contact us, we may supply special type of motor.

YBX3 SERIES

FLAMEPROOF THREE-PHASE INDUCTION MOTOR



II 2G Ex db
IIC T4 Gb



HUALI GROUP

Sales Network



Company Locations



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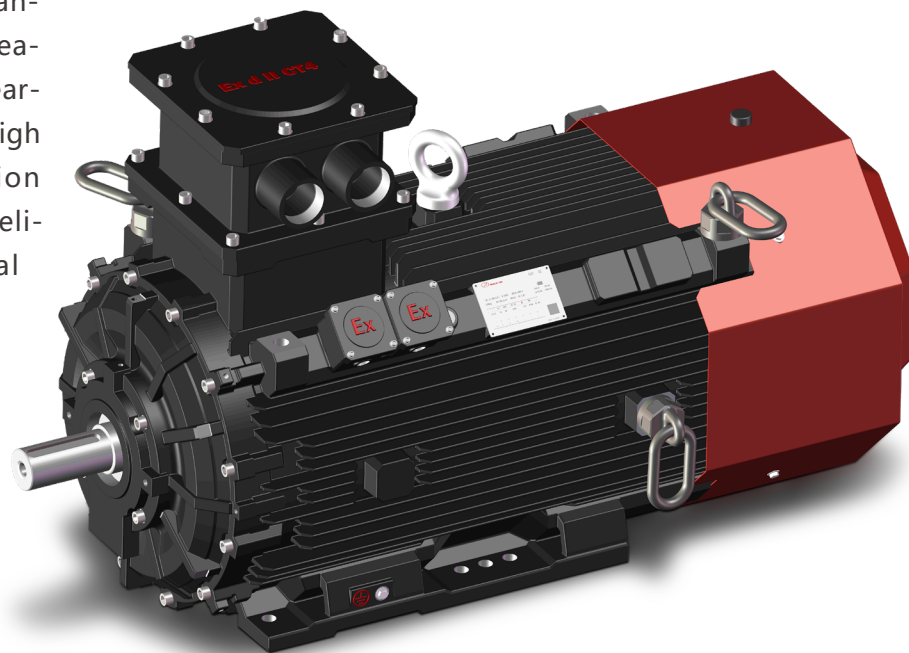
YBX3 Series Flameproof 3-Phase Induction Motor

PRODUCT INTRODUCTION

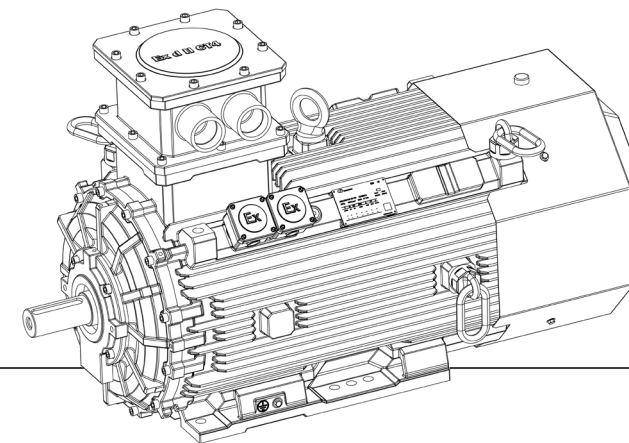
YBX3 series flameproof three-phase asynchronous motors comply with the third-level energy efficiency standard specified in IEC 60034-30-1 《Rotating Electrical Machines - Part 30-1: Efficiency Classes for AC Motors in Operation (IE Code)》. These motors are manufactured in accordance with IEC 60079-0 《Explosive Atmospheres - Part 0: Equipment - General Requirements》 and IEC 60079-1 《Explosive Atmospheres - Part 1: Equipment Protected by Flameproof Enclosures 'd'》, the explosion-proof mark is respectively Ex db IIC T4 Gb. It can be used as a general power equipment in an explosive mixture environment formed by combustible gas or steam and air in class C group T1 ~ T4.

Improvement on design of efficiency is in line with the state's requirements on the energy saving and consumption reducing of the manufacturing sector.

YBX3 series motors are installed in accordance with IEC-60034 standards. It has the advantages of reasonable structure, beautiful appearance, high efficiency, low noise, high protection grade, high insulation grade, long service life, strong reliability, etc., mainly used in coal mine, oil and gas, petrochemical and chemical industry. In addition, it is also widely used in textile, metallurgy, urban gas, transportation, grain and oil processing, paper making, medicine and other sectors.



SPECIFICATION



Site Conditions

The standard working condition of YBX3 series motor is no more than 1000m above sea level, the lowest ambient temperature is -15°C, and the highest ambient temperature is 40°C.

Temperature Rise and Insulation

F class (155°C) insulation system and temperature rise class B (80K) are adopted to the motor. The service life and reliability of the motor are guaranteed.

Cooling and Ventilation

The standard cooling method is fully enclosed self-fan-cooling. The standard motor is equipped with a co-flow plastic fan. Comply with IC411 in IEC60034-6.

Protection Class

The standard protection class of the motor is IP66, which is suitable for humid and dusty environments.

Voltage and Frequency

The standard voltage and frequency are 400V, 50/60Hz. Other specifications are acceptable for ordering, and their specific parameters shall be subject to the certification.

Vibration

Standard vibration class is A during no-load condition; higher vibration class B is available on request.

Quality Assurance

Stringent quality procedures are observed from first design to finished products in accordance with ISO9001 documented quality systems.

Technical Data

2pole-3000rpm synchronous speed 50HZ

Motor Type	Rated Output kW	Rated Speed rpm	IFL 400V A	EFF %	Power Factor cosφ	Rated Torque N.m	TST/TFL	TM/TFL	IST/IFL	M of I kgm²	Noise Level LW dB(A)	Net Weight kg
YBX3-80M1-2	0.75	2855	1.6	80.7%	0.83	2.5	2.3	2.3	7	0.001	62	27
YBX3-80M2-2	1.1	2855	2.3	82.7%	0.83	3.7	2.2	2.3	7.6	0.002	62	28
YBX3-90S-2	1.5	2880	3.1	84.2%	0.84	5.0	2.2	2.3	7.9	0.002	67	34
YBX3-90L-2	2.2	2880	4.3	85.9%	0.85	7.3	2.2	2.3	7.9	0.003	67	40
YBX3-100L-2	3	2880	5.7	87.1%	0.87	9.9	2.2	2.3	8.5	0.006	74	56
YBX3-112M-2	4	2900	7.4	88.1%	0.88	13.2	2.2	2.3	8.5	0.009	77	68
YBX3-132S1-2	5.5	2905	10.1	89.2%	0.88	18.1	2	2.3	8.5	0.024	79	90
YBX3-132S2-2	7.5	2905	13.7	90.1%	0.88	24.7	2	2.3	8.5	0.029	79	100
YBX3-160M1-2	11	2940	19.6	91.2%	0.89	35.7	2	2.3	8.5	0.067	81	145
YBX3-160M2-2	15	2940	26.5	91.9%	0.89	48.7	2	2.3	8.5	0.080	81	158
YBX3-160L-2	18.5	2940	32.5	92.4%	0.89	60.1	2	2.3	8.5	0.097	81	177
YBX3-180M-2	22	2955	38.5	92.7%	0.89	71.1	2	2.3	8.5	0.137	83	220
YBX3-200L1-2	30	2965	52.1	93.3%	0.89	96.6	2	2.3	8.5	0.227	84	280
YBX3-200L2-2	37	2965	64.0	93.7%	0.89	119.2	2	2.3	8.5	0.269	84	300
YBX3-225M-2	45	2970	77.6	94.0%	0.89	144.7	2	2.3	8	0.360	86	380
YBX3-250M-2	55	2975	94.6	94.3%	0.89	176.6	2	2.3	8	0.791	89	500
YBX3-280S-2	75	2975	128.4	94.7%	0.89	240.8	1.8	2.3	7.5	0.960	91	640
YBX3-280M-2	90	2975	153.6	95.0%	0.89	288.9	1.8	2.3	7.5	1.157	91	680
YBX3-315S-2	110	2980	187.4	95.2%	0.89	352.5	1.8	2.3	7.5	1.662	92	1080
YBX3-315M-2	132	2980	224.4	95.4%	0.89	423.0	1.8	2.3	7.5	1.874	92	1150
YBX3-315L1-2	160	2980	271.4	95.6%	0.89	512.8	1.8	2.3	7.5	2.146	92	1250
YBX3-315L-2	185	2980	313.9	95.6%	0.89	592.9	1.6	2.2	7.5	2.361	92	1300
YBX3-315L2-2	200	2980	338.6	95.8%	0.89	640.9	1.8	2.2	7.5	2.448	92	1342
YBX3-355S1-2	185	2980	313.9	95.6%	0.89	592.9	1.6	2.2	7.2	2.760	100	1760
YBX3-355S2-2	200	2980	338.6	95.8%	0.89	640.9	1.6	2.2	7.2	3.000	100	1800
YBX3-355M1-2	220	2980	372.4	95.8%	0.89	705.0	1.6	2.2	7.2	3.200	100	1860
YBX3-355M2-2	250	2980	418.5	95.8%	0.90	801.2	1.6	2.2	7.2	3.800	100	1920
YBX3-355L1-2	280	2980	468.7	95.8%	0.90	897.3	1.6	2.2	7.2	4.449	100	2050
YBX3-355L2-2	315	2980	527.3	95.8%	0.90	1009.5	1.6	2.2	7.2	4.820	100	2120

Technical Data

4pole-1500rpm synchronous speed 50HZ

Motor Type	Rated Output kW	Rated Speed rpm	IFL 400V A	EFF %	Power Factor cosφ	Rated Torque N.m	TST/TFL	TM/TFL	IST/IFL	M of I kgm²	Noise Level LW dB(A)	Net Weight kg
YBX3-80M1-4	0.55	1400	1.3	77.8%	0.75	3.8	2.3	2.3	6.6	0.0027	556	28
YBX3-80M2-4	0.75	1420	1.7	82.5%	0.75	5.0	2.3	2.3	6.6	0.003	56	32
YBX3-90S-4	1.1	1430	2.5	84.1%	0.75	7.3	2.3	2.3	6.8	0.004	59	37
YBX3-90L-4	1.5	1430	3.4	85.3%	0.75	10.0	2.3	2.3	7.0	0.005	59	41
YBX3-100L1-4	2.2	1440	4.5	86.7%	0.81	14.6	2.3	2.3	7.6	0.012	64	52
YBX3-100L2-4	3	1440	6.0	87.7%	0.82	19.9	2.3	2.3	7.6	0.016	64	57
YBX3-112M-4	4	1450	7.9	88.6%	0.82	26.3	2.2	2.3	7.8	0.022	65	74
YBX3-132S-4	5.5	1460	10.8	89.6%	0.82	36.0	2.0	2.3	7.9	0.060	71	94
YBX3-132M-4	7.5	1460	14.4	90.4%	0.83	49.1	2.0	2.3	7.5	0.071	71	110
YBX3-160M-4	11	1475	20.4	91.4%	0.85	71.2	2.2	2.3	7.7	0.137	73	156
YBX3-160L-4	15	1475	27.6	92.1%	0.85	97.1	2.2	2.3	7.8	0.171	73	185
YBX3-180M-4	18.5	1475	33.5	92.6%	0.86	119.8	2.0	2.3	7.8	0.238	76	200
YBX3-180L-4	22	1475	39.7	93.0%	0.86	142.4	2.0	2.3	7.8	0.259	76	240
YBX3-200L-4	30	1475	53.2	93.6%	0.87	194.2	2.0	2.3	7.3	0.459	76	300
YBX3-225S-4	37	1480	65.4	93.9%	0.87	238.8	2.0	2.3	7.4	0.656	78	380
YBX3-225M-4	45	1480	79.3	94.2%	0.87	290.4	2.0	2.3	7.4	0.758	78	400
YBX3-250M-4	55	1480	95.4	94.6%	0.88	354.9	2.2	2.3	7.4	1.078	79	520
YBX3-280S-4	75	1485	129.5	95.0%	0.88	482.3	2.0	2.3	6.9	1.800	80	705
YBX3-280M-4	90	1485	153.3	95.2%	0.89	578.8	2.0	2.3	6.9	2.130	80	740
YBX3-315S-4	110	1485	187.0	95.4%	0.89	707.4	2.0	2.2	7.0	3.415	88	1025
YBX3-315M-4	132	1485	223.9	95.6%	0.89	848.9	2.0	2.2	7.0	3.807	88	1154
YBX3-315L1-4	160	1485	270.9	95.8%	0.89	1029.0	2.0	2.2	7.1	3.423	88	1220
YBX3-315L-4	185	1485	313.2	95.8%	0.89	1189.7	2.0	2.2	7.0	3.958	88	1275
YBX3-315L2-4	200	1485	337.9	96.0%	0.89	1286.2	2.0	2.2	7.1	5.262	88	1315
YBX3-355S1-4	185	1490	313.2	95.8%	0.89	1185.7	2.0	2.2	7.0	7.500	95	1800
YBX3-355S2-4	200	1490	337.9	96.0%	0.89	1281.9	2.0	2.2	7.0	7.800	95	1860
YBX3-355M1-4	220	1490	371.6	96.0%	0.89	1410.1	2.0	2.2	7.0	8.4	95	1900
YBX3-355M2-4	250	1490	422.4	96.0%	0.89	1602.3	2.0	2.2	7.0	9.2	95	1960
YBX3-355L1-4	280	1490	473.0	96.0%	0.89	1794.6	2.0	2.2	7.0	9.9	95	2000
YBX3-355L2-4	315	1490	532.2	96.0%	0.89	2019.0	2.0	2.2	7.0	10.2	95	2050

Technical Data

6pole-1000rpm synchronous speed 50HZ

Motor Type	Rated Output kW	Rated Speed rpm	IFL 400V A	EFF %	Power Factor cosφ	Rated Torque N.m	TST/TFL	TM/TFL	IST/IFL	M of I kgm²	Noise Level LW dB(A)	Net Weight kg
YBX3-80M1-6	0.37	940	1.2	62.0%	0.70	3.8	1.9	2.0	6.0	0.0033	54	30
YBX3-80M2-6	0.55	940	1.5	73.6%	0.72	5.6	1.9	2.1	6.0	0.0037	54	32
YBX3-90S-6	0.75	940	1.9	78.9%	0.72	7.6	2.0	2.1	6.0	0.004	57	39
YBX3-90L-6	1.1	940	2.7	81.0%	0.73	11.2	2.0	2.1	6.0	0.006	57	47
YBX3-100L-6	1.5	950	3.5	82.5%	0.74	15.1	2.0	2.1	6.5	0.016	61	52
YBX3-112M-6	2.2	950	5.1	84.3%	0.74	22.1	2.0	2.1	6.6	0.039	65	68
YBX3-132S-6	3	965	6.8	85.6%	0.74	29.7	2.0	2.1	6.8	0.035	69	93
YBX3-132M1-6	4	965	9.0	86.8%	0.74	39.6	2.0	2.1	6.8	0.043	69	96
YBX3-132M2-6	5.5	965	12.0	88.0%	0.75	54.4	2.0	2.1	7.0	0.056	69	104
YBX3-160M-6	7.5	975	15.6	89.1%	0.78	73.5	2.0	2.1	7.0	0.140	73	158
YBX3-160L-6	11	975	22.5	90.3%	0.78	107.7	2.0	2.1	7.2	0.192	73	168
YBX3-180L-6	15	975	29.3	91.2%	0.81	146.9	2.0	2.1	7.3	0.319	73	214
YBX3-200L1-6	18.5	975	36.0	91.7%	0.81	181.2	2.0	2.1	7.3	0.446	73	260
YBX3-200L2-6	22	975	42.0	92.2%	0.82	215.5	2.0	2.1	7.4	0.557	73	293
YBX3-225M-6	30	985	57.6	92.9%	0.81	290.9	2.0	2.1	6.9	0.832	74	360
YBX3-250M-6	37	985	68.1	93.3%	0.84	358.7	2.0	2.1	7.1	1.45	76	520
YBX3-280S-6	45	985	80.6	93.7%	0.86	436.3	2.0	2.0	7.3	2.25	78	594
YBX3-280M-6	55	985	98.1	94.1%	0.86	533.2	2.0	2.0	7.3	2.73	78	658
YBX3-315S-6	75	990	134.6	94.6%	0.85	723.5	2.0	2.0	6.6	3.98	83	960
YBX3-315M-6	90	990	162.9	94.9%	0.84	868.2	2.0	2.0	6.7	4.50	83	1090
YBX3-315L1-6	110	990	196.4	95.1%	0.85	1061.1	2.0	2.0	6.7	5.61	83	1130
YBX3-315L2-6	132	990	232.2	95.4%	0.86	1273.3	2.0	2.0	6.8	6.93	83	1250
YBX3-355S-6	160	990	277.7	95.6%	0.87	1543.4	1.8	2.0	6.8	10.5	85	1850
YBX3-355M1-6	185	990	320.3	95.8%	0.87	1784.6	1.8	2.0	6.8	11.9	85	1900
YBX3-355M2-6	200	990	346.4	95.8%	0.87	1929.3	1.8	2.0	6.8	12.9	85	1960
YBX3-355L1-6	220	990	381.0	95.8%	0.87	2122.2	1.8	2.0	6.8	13.4	85	2010
YBX3-355L2-6	250	990	432.9	95.8%	0.87	2411.6	1.8	2.0	6.8	13.9	85	2080

Technical Data

8pole-750rpm synchronous speed 50HZ

Motor Type	Rated Output kW	Rated Speed rpm	IFL 400V A	EFF %	Power Factor cosφ	Rated Torque N.m	TST/TFL	TM/TFL	IST/IFL	M of I kgm²	Noise Level LW dB(A)	Net Weight kg
YBX3-80M1-8	0.18	635	0.9	51.0%	0.61	2.7	1.8	1.9	5.2	0.0023	52	30
YBX3-80M2-8	0.25	635	1.1	54.0%	0.61	3.8	1.8	1.9	5.7	0.0029	52	33
YBX3-90S-8	0.37	665	1.4	62.0%	0.61	5.3	1.8	1.9	6.2	0.004	56	39
YBX3-90L-8	0.55	665	2.1	63.0%	0.61	7.9	1.8	2.0	5.9	0.006	56	48
YBX3-100L1-8	0.75	690	2.4	68.7%	0.67	10.4	1.8	2.0	6.2	0.008	59	64
YBX3-100L2-8	1.1	690	3.4	70.0%	0.67	15.2	1.8	2.0	6.2	0.01	59	66
YBX3-112M-8	1.5	690	4.2	72.8%	0.71	20.8	1.8	2.0	6.7	0.017	61	74
YBX3-132S-8	2.2	710	5.7	77.9%	0.71	29.6	1.8	2.0	6.7	0.031	64	89
YBX3-132M-8	3	710	7.5	78.9%	0.73	40.4	1.8	2.0	6.9	0.04	64	94
YBX3-160M1-8	4	715	9.9	79.9%	0.73	53.4	1.9	2.0	6.9	0.075	68	139
YBX3-160M2-8	5.5	715	13.1	82.0%	0.74	73.5	1.9	2.0	6.9	0.093	68	148
YBX3-160L-8	7.5	715	17.2	84.0%	0.75	100.2	1.9	2.0	6.6	0.126	68	175
YBX3-180L-8	11	730	24.5	86.4%	0.75	143.9	2.0	2.0	6.6	0.203	70	230
YBX3-200L-8	15	735	32.8	86.9%	0.76	194.9	2.0	2.0	6.8	0.339	73	290
YBX3-225S-8	18.5	735	39.4	89.1%	0.76	240.4	1.9	2.0	3.8	0.491	73	330
YBX3-225M-8	22	735	45.4	89.6%	0.78	285.9	1.9	2.0	7.0	0.547	73	350
YBX3-250M-8	30	740	60.6	90.4%	0.79	387.2	1.9	2.0	6.7	0.83	75	500
YBX3-280S-8	37	740	74.4	90.9%	0.79	477.5	1.9	2.0	6.7	1.39	76	600
YBX3-280M-8	45	740	90.0	91.4%	0.79	580.7	1.9	2.0	6.7	1.65	76	630
YBX3-315S-8	55	740	107.5	92.3%	0.80	709.8	1.8	2.0	6.8	4.79	82	930
YBX3-315M-8	75	740	145.2	93.2%	0.80	967.9	1.8	2.0	6.3	5.58	82	1195
YBX3-315L1-8	90	740	173.7	93.5%	0.80	1161.5	1.8	2.0	6.4	6.37	82	1300
YBX3-315L2-8	110	740	207.1	93.5%	0.82	1419.6	1.8	2.0	6.4	7.23	82	1320
YBX3-355S-8	132	745	247.7	93.8%	0.82	1692.1	1.8	2.1	6.0	11.73	90	1800
YBX3-355M-8	160	745	299.6	94.0%	0.82	2051	1.8	2.0	6.0	12.48	90	1860
YBX3-355L1-8	185	745	346.5	94.0%	0.82	2371.5	1.8	2.0	6.0	12.86	90	1980
YBX3-355L2-8	200	745	369.2	94.2%	0.83	2563.8	1.8	2.0	6.0	13.85	90	2030

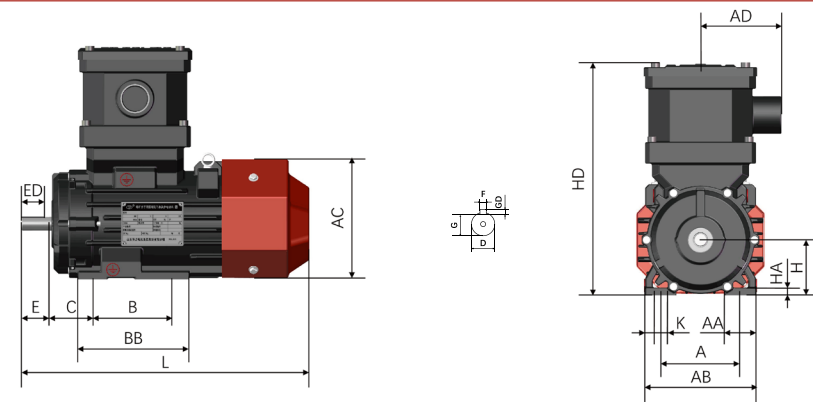
Technical Data

10pole-600rpm synchronous speed 50HZ

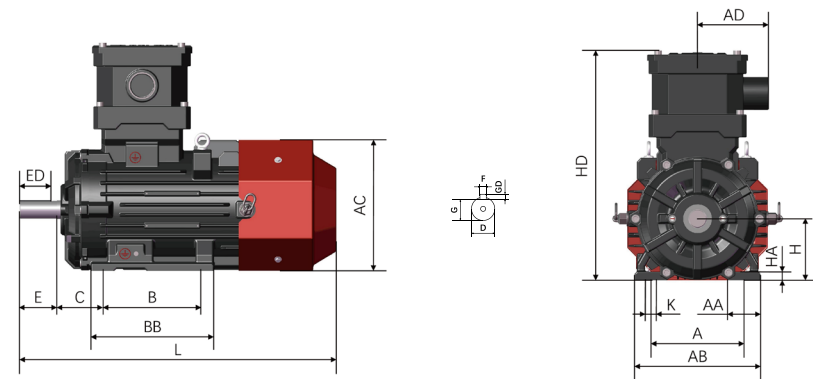
Motor Type	Rated Output kW	Rated Speed rpm	IFL 400V A	EFF %	Power Factor cosφ	Rated Torque N.m	TST/TFL	TM/TFL	IST/IFL	M of I kgm²	Noise Level LW dB(A)	Net Weight kg
YBX3-315S-10	45	592	95.0	91.2%	0.75	725.9	1.3	2	6.2	4.588	82	900
YBX3-315M-10	55	592	115.3	91.8%	0.75	887.2	1.3	2	6.2	5.061	82	945
YBX3-315L1-10	75	592	154.3	92.3%	0.76	1209.9	1.3	2	6.2	6.559	82	1175
YBX3-315L2-10	90	592	181.6	92.9%	0.77	1451.9	1.3	2	6.2	8.285	82	1280
YBX3-355S-10	90	595	181.6	92.9%	0.77	1451.9	1.3	2	6.2	10.25	82	1650
YBX3-355M1-10	110	595	218.7	93.1%	0.78	1765.5	1.3	2	6	12.75	90	1820
YBX3-355M2-10	132	595	261.3	93.5%	0.78	2118.7	1.3	2	6	13.52	90	1875
YBX3-355L1-10	160	595	316.6	93.5%	0.78	2568.1	1.3	2	6	13.86	90	2005
YBX3-355L2-10	185	595	366.1	93.5%	0.78	2969.3	1.3	2	6	14.18	90	2230

Dimensions Foot Mount B3

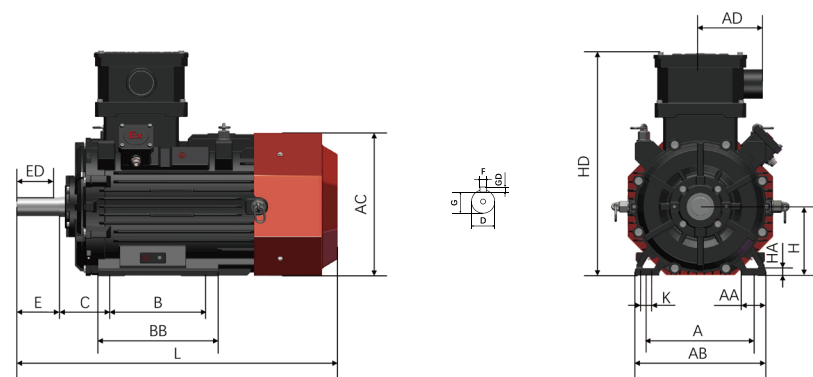
YBX3-80~132



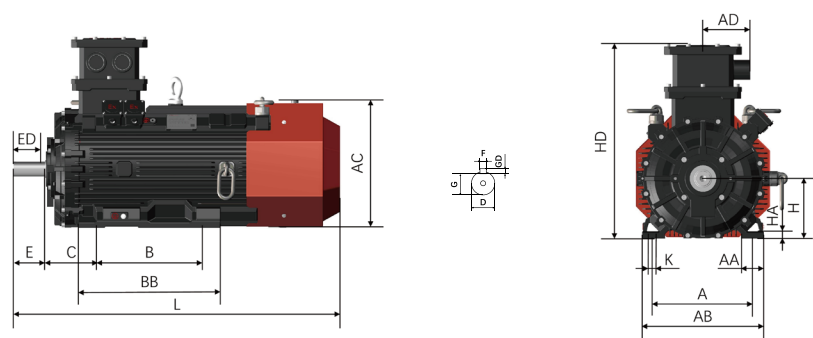
YBX3-160~200



YBX3-225~280



YBX3-315~355



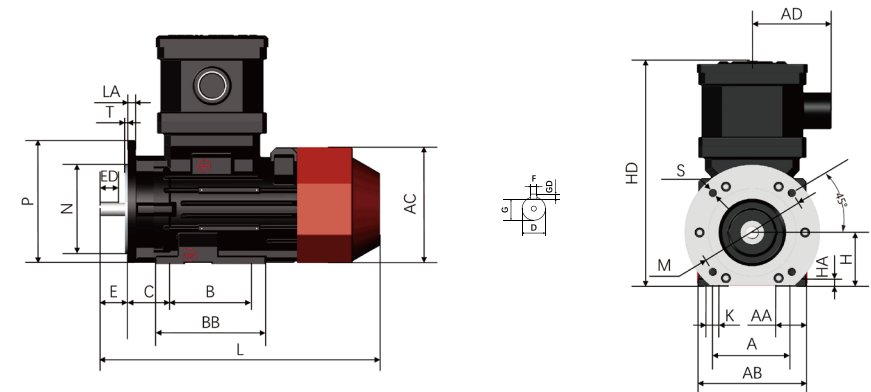
Dimensions Foot Mount B3

Frame Size	Pole	A	AA	AB	AC*	AD	B	BB	C	D	E	ED	F	G	GD	H	HA	HD	K	L*
80M	2-8	125	45	160	170	183	100	160	50	19	40	22	6	15.5	6	80	11	330	10	400
90S	2-8	140	48	180	185	183	100	176	56	24	50	32	8	20	7	90	12	345	10	430
90L	2-8	140	48	180	185	183	125	176	56	24	50	32	8	20	7	90	12	345	10	430
100L	2-8	160	60	208	216	201	140	220	63	28	60	40	8	24	7	100	13	365	12	480
112M	2-8	190	65	230	235	201	140	240	70	28	60	40	8	24	7	112	15	385	12	575
132S	2-8	216	70	270	260	201	140	265	89	38	80	56	10	33	8	132	19	420	12	635
132M	2-8	216	70	270	260	201	178	265	89	38	80	56	10	33	8	132	19	420	12	635
160M	2-8	254	70	320	310	201	210	360	108	42	110	80	12	37	8	160	21	510	14.5	760
160L	2-8	254	70	320	310	201	254	360	108	42	110	80	12	37	8	160	21	510	14.5	760
180M	2-8	279	75	360	360	255	241	360	121	48	110	80	14	42.5	9	180	21	600	14.5	865
180L	2-8	279	75	360	360	255	279	360	121	48	110	80	14	42.5	9	180	21	600	14.5	865
200L	2-8	318	75	390	410	255	305	437	133	55	110	90	16	49	10	200	21	635	18.5	900
225S	4-8	356	80	430	440	301	286	457	149	60	140	100	18	53	11	225	25	705	18.5	1010
225M	2	356	80	430	440	301	311	457	149	55	110	80	16	49	10	225	25	705	18.5	980
225M	4-8	356	80	430	440	301	311	457	149	60	140	100	18	53	11	225	25	705	18.5	1010
250M	2	406	85	490	500	290	349	440	168	60	140	110	18	53	11	250	30	770	24	1035
250M	4-8	406	85	490	500	290	349	440	168	65	140	110	18	58	11	250	30	770	24	1035
280S	2	457	100	540	550	290	368	520	190	65	140	110	18	58	11	280	36	830	24	1090
280S	4-8	457	100	540	550	290	368	520	190	75	140	110	20	67.5	12	280	36	830	24	1090
280M	2	457	100	540	550	290	419	520	190	65	140	110	18	58	11	280	36	830	24	1090
280M	4-8	457	100	540	550	290	419	520	190	75	140	110	20	67.5	12	280	36	830	24	1090
315S	2	508	120	630	620	330	406	640	216	65	140	110	18	58	11	315	36	980	28	1280
315M	2	508	120	630	620	330	457	640	216	65	140	110	18	58	11	315	36	980	28	1380
315L	2	508	120	630	620	330	508	640	216	65	140	110	18	58	11	315	36	980	28	1380
315S	4-10	508	120	630	620	330	406	640	216	80	170	140	22	71	14	315	36	980	28	1355
315M	4-10	508	120	630	620	330	457	640	216	80	170	140	22	71	14	315	36	980	28	1455
315L	4-10	508	120	630	620	330	508	640	216	80	170	140	22	71	14	315	36	980	28	1455
355S	2	610	130	720	698	330	500	650	254	75	140	110	20	67.5	12	355	35	1060	28	1455
355M	2	610	130	720	698	330	560	770	254	75	140	110	20	67.5	12	355	35	1060	28	1555
355L	2	610	130	720	698	330	630	860	254	75	140	110	20	67.5	12	355	35	1060	28	1675
355S	4-10	610	130	720	698	330	500	650	254	95	170	140	25	86	14	355	35	1060	28	1485
355M	4-10	610	130	720	698	330	560	770	254	95	170	140	25	86	14	355	35	1060	28	1585
355L	4-10	610	130	720	698	330	630	860	254	95	170	140	25	86	14	355	35	1060	28	1705

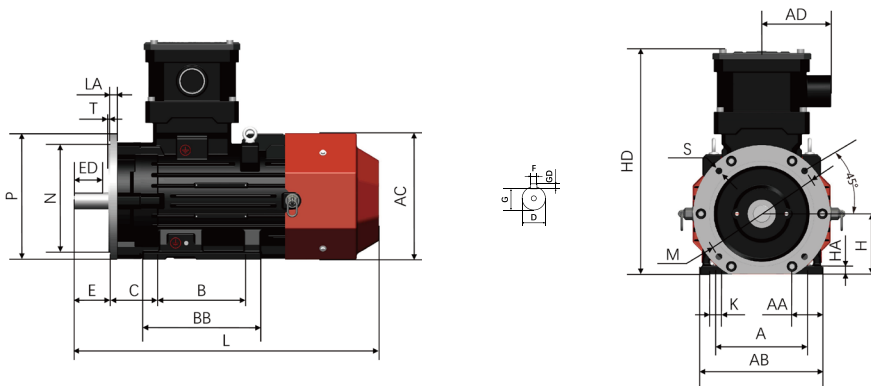
1. The dimension of 'L' with tolerance ± 5 for frame 80-132, tolerance ± 8 for frame 160-355.
2. AC and L dimensions are the maximum external dimensions, and the details are subject to the confirmed drawings.

Dimensions Foot-Flange Mount B35

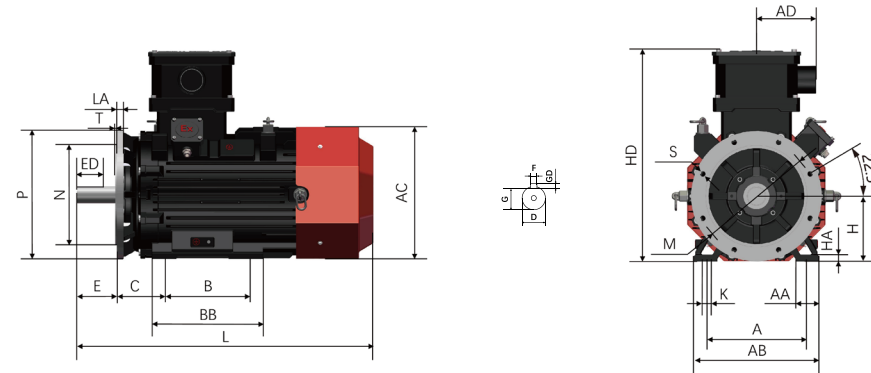
YBX3-80~132



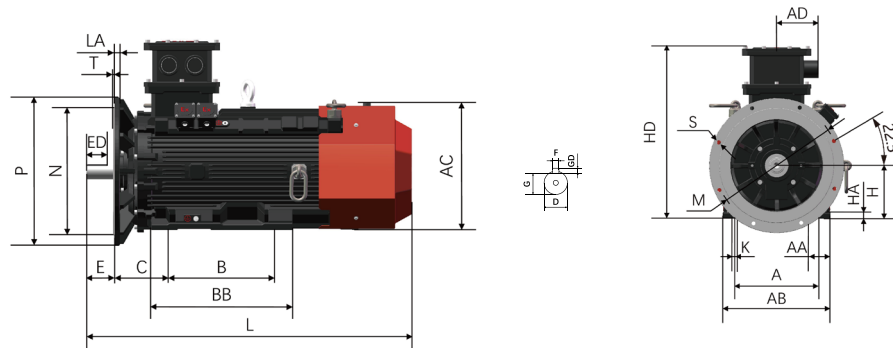
YBX3-160~200



YBX3-225~280



YBX3-315~355



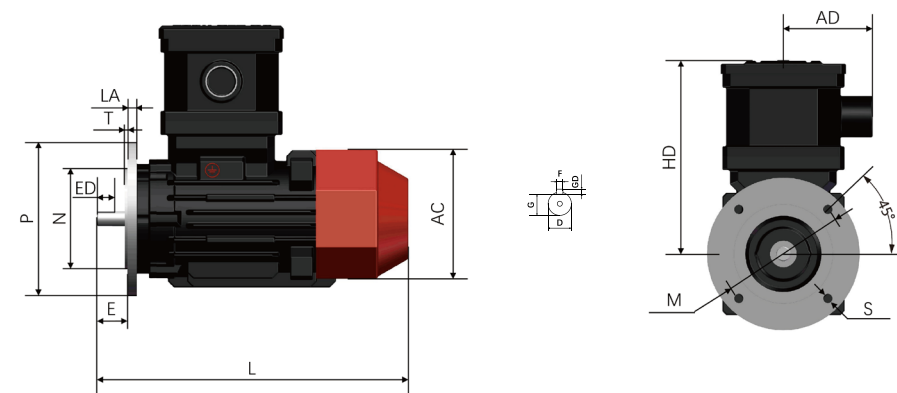
Dimensions Foot-Flange Mount B35

Frame Size	Pole	A	AA	AB	AC*	AD	B	BB	C	D	E	ED	F	G	GD	H	HA	HD	K	L*	LA	M	N	P	S	T
80M	2-8	125	45	160	170	183	100	160	50	19	40	22	6	15.5	6	80	11	330	10	400	12	165	130	200	12	3.5
90S	2-8	140	48	180	185	183	100	176	56	24	50	32	8	20	7	90	12	345	10	430	12	165	130	200	12	3.5
90L	2-8	140	48	180	185	183	125	176	56	24	50	32	8	20	7	90	12	345	10	430	12	165	130	200	12	3.5
100L	2-8	160	60	208	216	201	140	220	63	28	60	40	8	24	7	100	13	365	12	480	13	215	180	250	14.5	4
112M	2-8	190	65	230	235	201	140	240	70	28	60	40	8	24	7	112	15	385	12	575	13	215	180	250	14.5	4
132S	2-8	216	70	270	260	201	140	265	89	38	80	56	10	33	8	132	19	420	12	635	15	265	230	300	14.5	4
132M	2-8	216	70	270	260	201	178	265	89	38	80	56	10	33	8	132	19	420	12	635	15	265	230	300	14.5	4
160M	2-8	254	70	320	310	201	210	360	108	42	110	80	12	37	8	160	21	510	14.5	760	18	300	250	350	18.5	5
160L	2-8	254	70	320	310	201	254	360	108	42	110	80	12	37	8	160	21	510	14.5	760	18	300	250	350	18.5	5
180M	2-8	279	75	360	360	255	241	360	121	48	110	80	14	42.5	9	180	21	600	14.5	865	18	300	250	350	18.5	5
180L	2-8	279	75	360	360	255	279	360	121	48	110	80	14	42.5	9	180	21	600	14.5	865	18	300	250	350	18.5	5
200L	2-8	318	75	390	410	255	305	437	133	55	110	90	16	49	10	200	21	635	18.5	900	20	350	300	400	18.5	5
225S	4-8	356	80	430	440	301	286	457	149	60	140	100	18	53	11	225	25	705	18.5	1010	20	400	350	450	18.5	5
225M	2	356	80	430	440	301	311	457	149	55	110	80	16	49	10	225	25	705	18.5	980	20	400	350	450	18.5	5
225M	4-8	356	80	430	440	301	311	457	149	60	140	100	18	53	11	225	25	705	18.5	1010	20	400	350	450	18.5	5
250M	2	406	85	490	490	290	349	440	168	60	140	110	18	53	11	250	30	770	24	1035	20	500	450	550	18.5	5
250M	4-8	406	85	490	490	290	349	440	168	65	140	110	18	58	11	250	30	770	24	1035	20	500	450	550	18.5	5
280S	2	457	100	540	550	290	368	520	190	65	140	110	18	58	11	280	36	830	24	1090	25	500	450	550	18.5	5
280S	4-8	457	100	540	550	290	368	520	190	75	140	110	20	67.5	12	280	36	830	24	1090	25	500	450	550	18.5	5
280M	2	457	100	540	550	290	419	520	190	65	140	110	18	58	11	280	36	830	24	1090	25	500	450	550	18.5	5
280M	4-8	457	100	540	550	290	419	520	190	75	140	110	20	67.5	12	280	36	830	24	1090	25	500	450	550	18.5	5
315S	2	508	120	630	620	330	406	640	216	65	140	110	18	58	11	315	36	980	28	1280	25	600	550	660	24	6
315M	2	508	120	630	620	330	457	640	216	65	140	110	18	58	11	315	36	980	28	1380	25	600	550	660	24	6
315L	2	508	120	630	620	330	508	640	216	65	140	110	18	58	11	315	36	980	28	1380	25	600	550	660	24	6
315S	4-10	508	120	630	620	330	406	640	216	80	170	140	22	71	14	315	36	980	28	1355	25	600	550	660	24	6
315M	4-10	508	120	630	620	330	457	640	216	80	170	140	22	71	14	315	36	980	28	1455	25	600	550	660	24	6
315L	4-10	508	120	630	620	330	508	640	216	80	170	140	22	71	14	315	36	980	28	1455	25	600	550	660	24	6
355S	2	610	130	720	698	330	500	650	254	75	140	110	20	67.5	12	355	35	1060	28	1455	25	740	680	800	24	6
355M	2	610	130	720	698	330	560	770	254	75	140	110	20	67.5	12	355	35	1060	28	1555	25	740	680	800	24	6
355L	2	610	130	720	698	330	630	860	254	75	140	110	20	67.5	12	355	35	1060	28	1675	25	740	680	800	24	6
355S	4-10	610	130	720	698	330	500	650	254	95	170	140	25	86	14	355	35	1060	28	1485	25	740	680	800	24	6
355M	4-10	610	130	720	698	330	560	770	254	95	170	140	25	86	14	355	35	1060	28	1585	25	740	680	800	24	6
355L	4-10	610	130	720	698	330	630	860	254	95	170	140	25	86	14	355	35	1060	28	1705	25	740	680	800	24	6

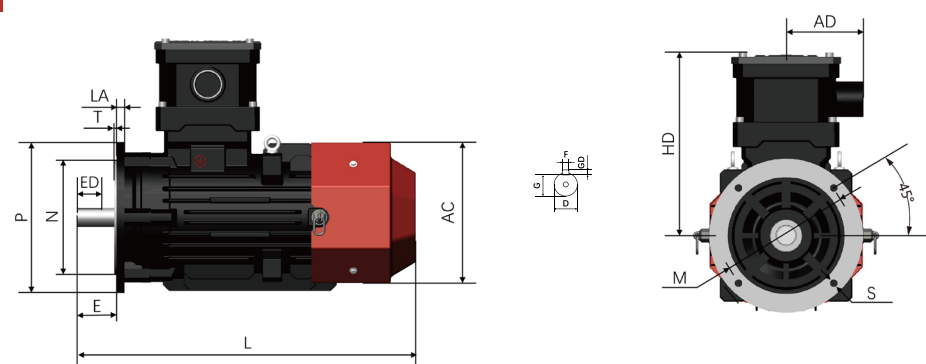
1. The dimension of 'L' with tolerance ± 5 for frame 80-132, tolerance ± 8 for frame 160-355.
2. AC and L dimensions are the maximum external dimensions, and the details are subject to the confirmed drawings.

Dimensions Flange Mount B5

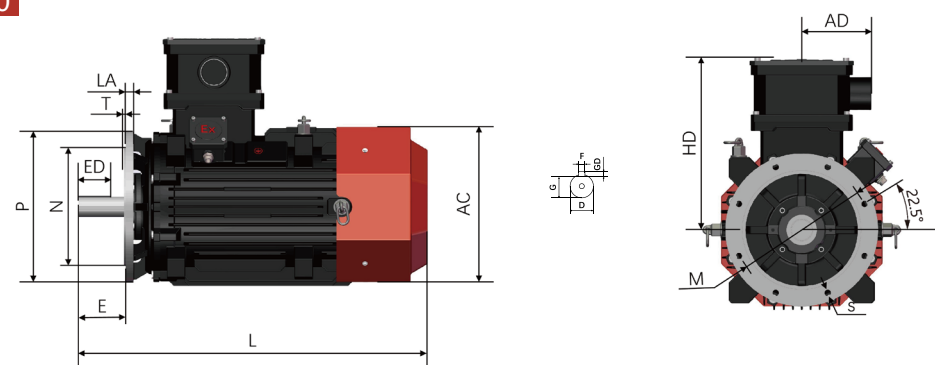
YBX3-80~132



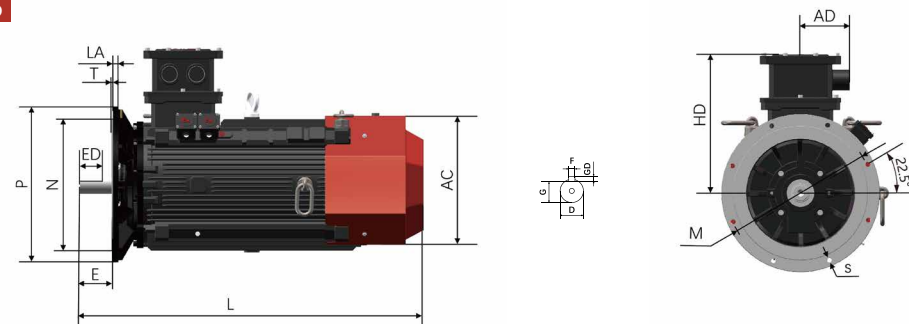
YBX3-160~200



YBX3-225~280



YBX3-315~355



Dimensions Flange Mount B5

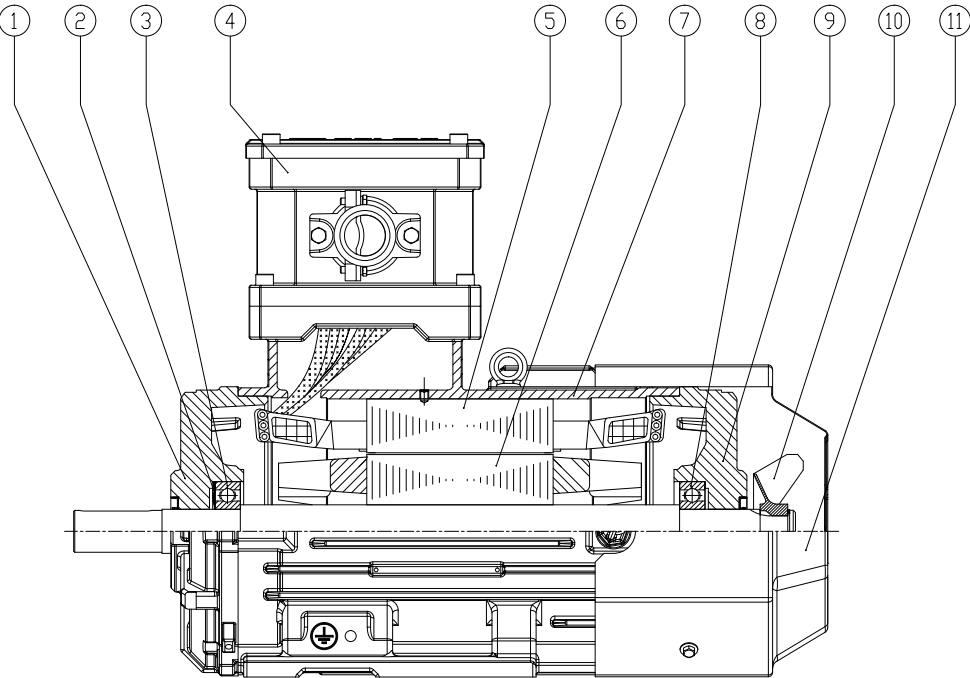
Frame Size	Pole	AC*	D	AD	E	ED	F	G	GD	LA	M	N	P	S	T	HD	L*
80M	2-8	170	19	183	40	22	6	15.5	6	12	165	130	200	12	3.5	250	400
90S	2-8	185	24	183	50	32	8	20	7	12	165	130	200	12	3.5	255	430
90L	2-8	185	24	183	50	32	8	20	7	12	165	130	200	12	3.5	255	430
100L	2-8	216	28	201	60	40	8	24	7	14	215	180	250	14.5	4	265	480
112M	2-8	235	28	201	60	40	8	24	7	14	215	180	250	14.5	4	273	575
132S	2-8	260	38	201	80	56	10	33	8	16	265	230	300	14.5	4	288	635
132M	2-8	260	38	201	80	56	10	33	8	16	265	230	300	14.5	4	288	635
160M	2-8	310	42	201	110	80	12	37	8	19	300	250	350	18.5	5	350	760
160L	2-8	310	42	201	110	80	12	37	8	19	300	250	350	18.5	5	350	760
180M	2-8	360	48	255	110	80	14	42.5	9	19	300	250	350	18.5	5	420	865
180L	2-8	360	48	255	110	80	14	42.5	9	19	300	250	350	18.5	5	420	865
200L	2-8	410	55	255	110	90	16	49	10	22	350	300	400	18.5	5	435	900
225S	4-8	440	60	301	140	100	18	53	11	24	400	350	450	18.5	5	450	1010
225M	2	440	55	301	110	80	16	49	10	24	400	350	450	18.5	5	450	980
225M	4-8	440	60	301	140	100	18	53	11	24	400	350	450	18.5	5	450	1010
250M	2	500	60	290	140	110	18	53	11	20	500	450	550	18.5	5	520	1035
250M	4-8	500	65	290	140	110	18	58	11	20	500	450	550	18.5	5	520	1035
280S	2	550	65	290	140	110	18	58	11	25	500	450	550	18.5	5	550	1090
280S	4-8	550	75	290	140	110	20	67.5	12	25	500	450	550	18.5	5	550	1090
280M	2	550	65	290	140	110	18	58	11	25	500	450	550	18.5	5	550	1090
280M	4-8	550	75	290	140	110	20	67.5	12	25	500	450	550	18.5	5	550	1090
315S	2	620	65	330	140	110	18	58	11	25	600	550	660	24	6	665	1280
315M	2	620	65	330	140	110	18	58	11	25	600	550	660	24	6	665	1380
315L	2	620	65	330	140	110	18	58	11	25	600	550	660	24	6	665	1380
315S	4-10	620	80	330	170	140	22	71	14	25	600	550	660	24	6	665	1355
315M	4-10	620	80	330	170	140	22	71	14	25	600	550	660	24	6	665	1455
315L	4-10	620	80	330	170	140	22	71	14	25	600	550	660	24	6	665	1455
355S	2	698	75	330	140	110	20	67.5	12	25	740	680	800	24	6	705	1455
355M	2	698	75	330	140	110	20	67.5	12	25	740	680	800	24	6	705	1555
355L	2	698	75	330	140	110	20	67.5	12	25	740	680	800	24	6	705	1675
355S	4-10	698	95	330	170	140	25	86	14	25	740	680	800	24	6	705	1485
355M	4-10	698	95	330	170	140	25	86	14	25	740	680	800	24	6	705	1585
355L	4-10	698	95	330	170	140	25	86	14	25	740	680	800	24	6	705	1705

1. The dimension of 'L' with tolerance ± 5 for frame 80-132, tolerance ± 8 for frame 160-355.
2. AC and L dimensions are the maximum external dimensions, and the details are subject to the confirmed drawings.

Arrangement and Parts List

YBX3 80~132FRAME

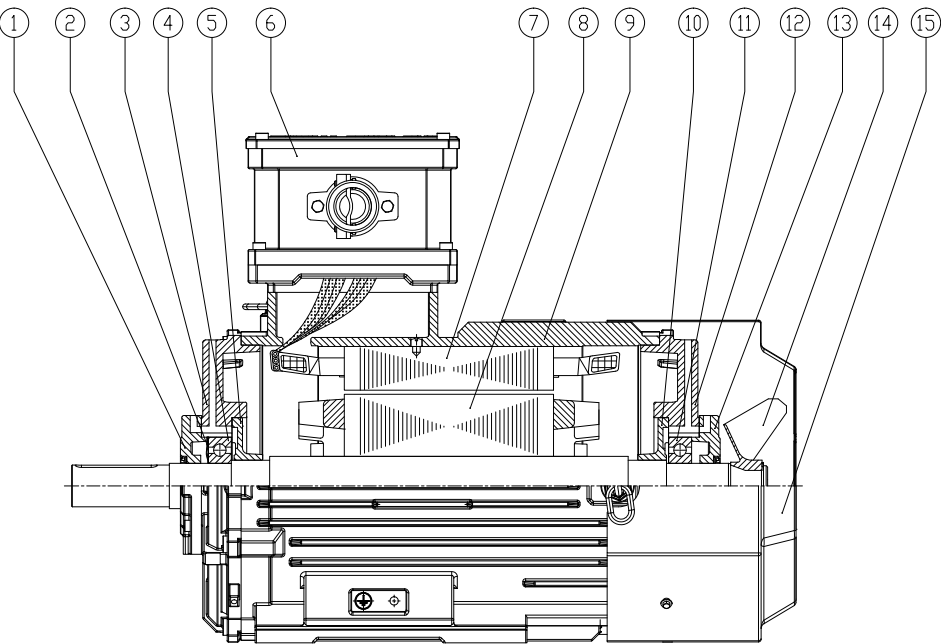
Parts Description		Specifications Standard Construction
1	Endshield D.E.	Cast iron frame,terminal box.
2	Wave washer	Pressed steel fan cowl.
3	Bearing D.E.	Cast iron endshields.
4	Terminal box	Polypropylene,glass reinforced fan.
5	Stator lamination pack	Equivalent bearings.
6	Rotor lamination pack	Features
7	Frame	IEC60079
8	Bearing N.D.E.	IEC72-1-72-3
9	Endshield N.D.E.	IP66
10	Fan	Top mounted terminal box.
11	Fan cowl	Terminalbox rotates in 90 deg
		Cooling IC411
		Mounting
		B3-foot mounted
		B5-flange mounted-horizontal.
		B35-foot flange mounted



Arrangement and Parts List

YBX3 160~280FRAME

Parts Description		Specifications Standard Construction
1	Outer bearing cap D.E.	Cast iron frame,terminal box.
2	Wave washer	Pressed steel fan cowl.
3	Endshield D.E.	Cast iron endshields.
4	Bearing D.E.	Polypropylene,glass reinforced fan.
5	Inner bearing cap D.E.	Equivalent bearings.
6	Terminal box	Features
7	Stator lamination pack	IEC60079
8	Rotor lamination pack	IEC72-1-72-3
9	Frame	IP66
10	Inner bearing cap N.D.E.	Top mounted terminal box.
11	Bearing N.D.E.	Terminalbox rotates in 90 deg
12	Endshield N.D.E.	Cooling IC411
13	Outer bearing cap N.D.E.	Mounting
14	Fan	B3-foot mounted
15	Fan cowl	B5-flange mounted-horizontal.
		B35-foot flange mounted



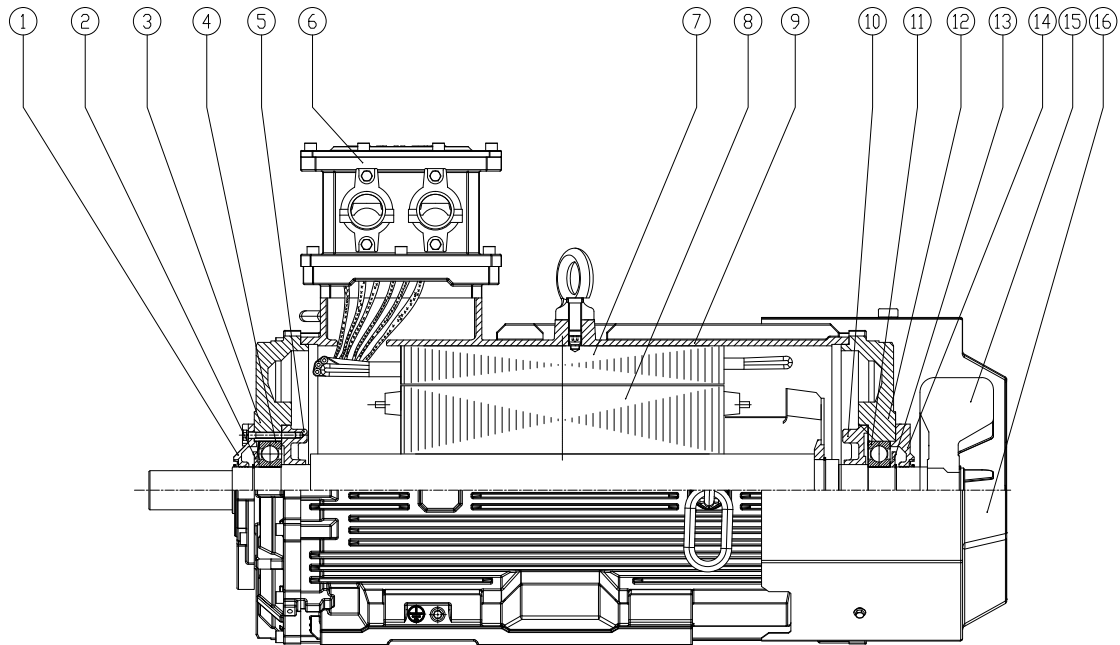
FLAMEPROOF THREE-PHASE INDUCTION MOTOR

FLAMEPROOF THREE-PHASE INDUCTION MOTOR

Arrangement and Parts List

YBX3 315~355FRAME

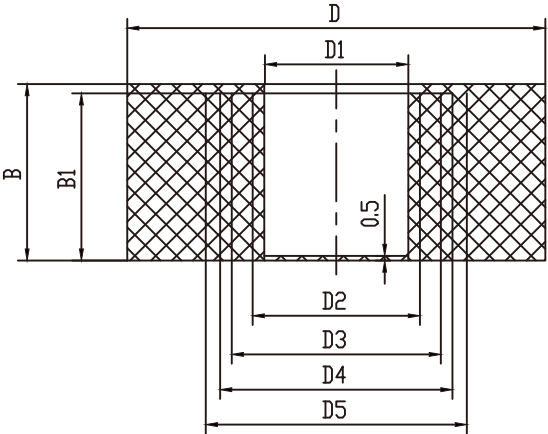
Parts Description		Specifications Standard Construction
1	Outer bearing cap D.E.	Cast iron frame,terminal box.
2	Flinger D.E.	Pressed steel fan cowl.
3	Endshield D.E	Cast iron endshields.
4	Bearing D.E.	Polypropylene,glass reinforced fan.
5	Inner bearing cap D.E.	Equivalent bearings.
6	Terminal box	Features
7	Stator lamination pack.	IEC60079
8	Rotor lamination pack.	IEC72-1-72-3
9	Frame	IP66
10	Inner bearing cap N.D.E.	Top mounted terminal box.
11	Bearing N.D.E.	Terminalbox rotates in 90 deg
12	Endshield N.D.E.	Cooling IC411
13	Flinger N.D.E.	Mounting
14	Outer bearing cap N.D.E.	B3-foot mounted
15	Fan	B35-foot flange mounted
16	Fan cowl	



Degrees of Protection(IEC 600034-5)

Designation	First Numeral	Second Numeral
	Protection against contact and ingree of foreign bodies, protection against hazardous" live" parts and moving mechanical parts.	Protection against water
	Ingree of dust is not totally prevented, but dust shall not interfere with the satisfactory operation of equipment. A probe of 1mm diameter shall not penetrate the enclosure.	Water projected in jets against the enclosure from any direction will have no harmful effects.
	No ingress of dust.	Water projected in power jets shall have no harmful effects.
IP55	Dust protected	Jetting water
IP56	Dust protected	Powerful Jetting
IP65	Dust tight	Jetting water
IP66	Dust tight	Powerful Jetting

Size of Sealing Ring (Suitable for explosion-proof motors YB3、YBX3、YBBP、YBK3)



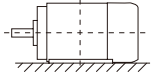
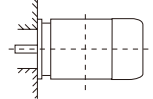
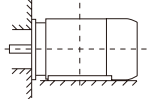
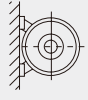
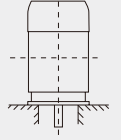
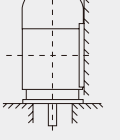
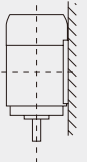
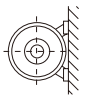
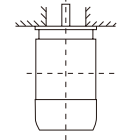
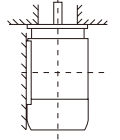
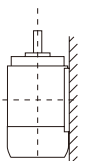
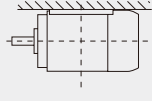
Frame size	Size							
	D1	D2	D3	D4	D5	D	B1	B
80-112	φ14	φ20	φ25			φ42	24	26
132-160	φ14	φ20	φ26	φ31	φ35	φ58	24	26
180-200	φ20	φ26	φ32	φ38	φ42	φ72	30	32
225-355	φ25	φ31	φ36	φ45	φ50	φ90	36	38

Note: There're 2pcs cable entries for frame size 315,355.

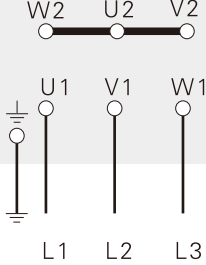
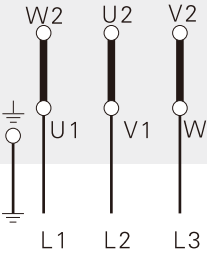
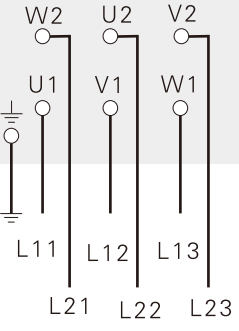
FLAMEPROOF THREE-PHASE INDUCTION MOTOR

FLAMEPROOF THREE-PHASE INDUCTION MOTOR

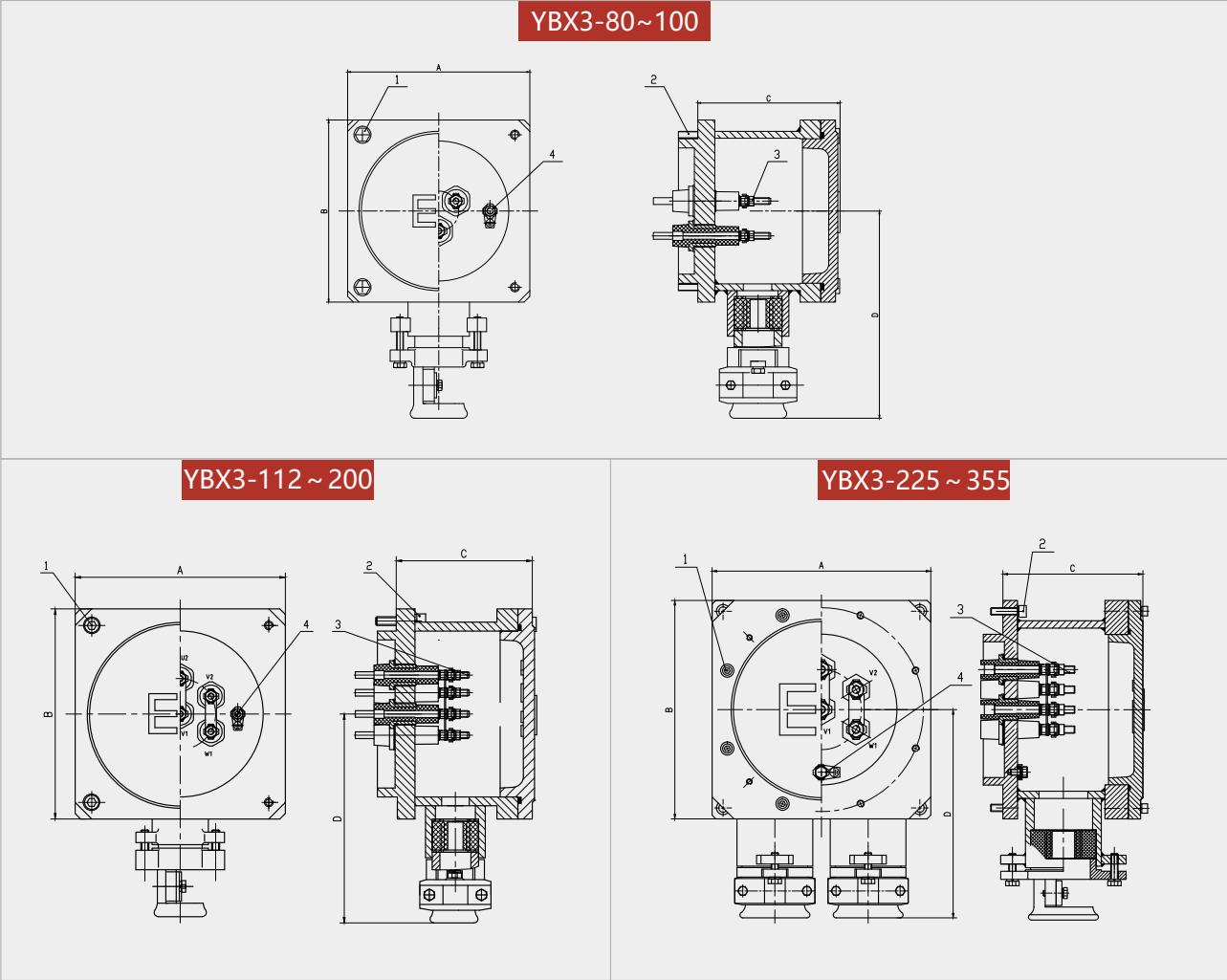
Mounting Arrangements

Foot Mtg Horiz	Flange Mtg	Foot/Flange Mtg	Foot Mtg Vert
B3 IM1001 H80 ~ 355 	B5 IM3001 H80 ~ 280 	B35 IM2001 H80 ~ 355 	
B6 IM1051 H80 ~ 160 	V1 IM3011 H80 ~ 355 	V15 IM2011 H80 ~ 160 	V5 IM1011 H80 ~ 160 
B7 IM1061 H80 ~ 160 	V3 IM3031 H80 ~ 160 	V36 IM2031 H80 ~ 160 	V6 IM1031 H80 ~ 160 
B8 IM1071 H80 ~ 160 			

Connection Diagrams Three phase motors with cage rotor

Star Connection	Delta Connection	Star-Delta Connection
		

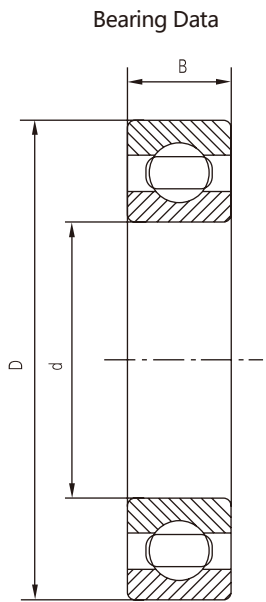
Top Terminal Box



Frame	A	B	C	D	1	2	3	4	Cable Entry Size	Terminal Box Specs
YBX3-80-90	160	160	125	182	M8x25	M8x35	M5	M5	M30x2	M5(Small)
YBX3-100-112	190	190	125	204	M8x25	M8x35	M5	M5	M30x2	M5
YBX3-132-160	210	210	135	201	M10x40	M10x40	M6	M6	M36x2	M6
YBX3-180-200	240	240	150	255	M8x40	M10x40	M8	M8	M48x2	M8
YBX3-225-280	300	300	195	301	M8x40	M10x40	M10	M10	2xM64x2	M10
YBX3-315-355	400	400	225	340	M12x40	M12x40	M16	M12	2xM64x2	M16

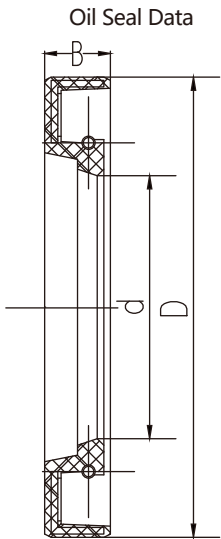
Bearing

Motor Type	DE	NDE	d	D	B	d	D	B
YBX3-80	6204ZZ	6204ZZ	20	47	14	20	47	14
YBX3-90	6205ZZ	6205ZZ	25	52	15	25	52	15
YBX3-100	6206ZZ	6206ZZ	30	62	16	30	62	16
YBX3-112	6206ZZ	6206ZZ	30	62	16	30	62	16
YBX3-132	6208ZZ	6208ZZ	40	80	18	40	80	18
YBX3-160	6309	6309	45	100	25	45	100	25
YBX3-180	6311	6311	55	120	29	55	120	29
YBX3-200	6312	6312	60	130	31	60	130	31
YBX3-225	6313	6313	65	140	33	65	140	33
YBX3-250	6314	6314	70	150	35	70	150	35
YBX3-280 2P	6314	6314	70	150	35	70	150	35
YBX3-280 4-8P	6317	6317	85	180	41	85	180	41
YBX3-315 2P	6316	6316	80	170	39	80	170	39
YBX3-315 4-8P	6319	6319	95	200	45	95	200	45
YBX3-355 2P	6319	6319	95	200	45	95	200	45
YBX3-355 4-8P	6322	6322	110	240	50	110	240	50



Bearing Seal & Lubrication

Motor type	D.E.			N.D.E.		
	d	D	B	d	D	B
YBX3-80	20	40	7	20	40	7
YBX3-90	25	47	7	25	47	7
YBX3-100	30	52	7	30	52	7
YBX3-112	30	52	7	30	52	7
YBX3-132	40	62	5	40	62	5
YBX3-160	45	65	8	45	65	8
YBX3-180	55	72	8	55	72	8
YBX3-200	60	80	8	60	80	8
YBX3-225	65	85	10	65	85	10
YBX3-250	70	95	10	70	95	10
YBX3-280-2	70	95	10	70	95	10
YBX3-280-4.6.8	85	110	12	85	110	12
YBX3-315-2	80	100	10	80	100	10
YBX3-315-4.6.8	95	120	12	95	120	12
YBX3-355-2	95	120	12	95	120	12
YBX3-355-4.6.8	110	140	12	110	140	12



- ♦ Motors are equipped with bearings from excellent manufacturers.In general the bearings have C3 clearances.
- ♦ Motors of frame sizes 80-132 are fitted with closed bearings.
- ♦ Motors of frame sizes 160-355 are fitted with open bearings and regreasing device. Depending on the useful life of grease,open bearings must be regreased in good time so that the scheduled bearing service life is reached.

Motor Type	DE Bearing	NDE Bearing	Regreasing Period Hours for Operating Temperatures up to 70°C			Quantity of Grease in Bearing Chamber g
			n<3600r/min	n<1800r/min	n<1200r/min	
YBX3-160	6309	6309	6000	10000	16000	13
YBX3-180	6311	6311	4000	9000	14000	15
YBX3-200	6312	6212	3500	6500	11000	20
YBX3-225	6313	6313	3000	5500	8000	23
YBX3-250	6314	6314	2000	5500	8000	23
YBX3-280 2P	6314	6314	1200	—	—	30
YBX3-280 4-8P	6317	6317	—	4000	6000	35
YBX3-315 2P	6316	6316	1200	—	—	30
YBX3-315 4-10P	6319	6319	—	2000	3000	45
YBX3-355 2P	6319	6319	1200	—	—	30
YBX3-355 4-10P	6322	6322	—	1400	2200	60

1. Vertical motors should be greased twice as often as horizontal motors.
2. Regreasing time should be reduced if bearing operating temperature is in excess of 70°C.

Main Product Introduction

YE3 Series 3-Phase Asynchronous Motor
YE4 Series 3-Phase Asynchronous Motor
YE5 Series 3-Phase Asynchronous Motor
YE3 Series Special Motor for Smoke and Heat Exhaust Ventilators
Y-H Series 3-Phase Asynchronous Motor In Ships
YD Series 3-Phase Multi-Speed Motor
YDT Series Ventilator used 3-Phase Multi-Speed Motor
YVF2 Series Frequency Control 3-Phase Asynchronous Motor
YH Series High Slip 3-Phase Asynchronous Motor
Y-W Series Outdoor used 3-Phase Asynchronous Motor
YT Series Ventilator used 3-Phase Asynchronous Motor
1L(IP23) Series 3-Phase Asynchronous Motor
Y(IP23) Series 3-Phase Asynchronous Motor
YZS Series Crane 3-Phase Asynchronous Motor
YEJ Series Electromagnetic Braking 3-Phase Asynchronous Motor
YBK3 Series Flameproof 3-Phase Asynchronous Motor for Coal Mines
HM3 Series 3-Phase Asynchronous Motor
HM4 Series 3-Phase Asynchronous Motor
YB2-H、YB3-H Series Flameproof 3-Phase Asynchronous Motor For Ships
YBBP Series Flameproof Frequency Control 3-Phase Asynchronous Motor
YBX3 Series High Efficiency Flameproof 3-Phase Asynchronous Motor
YBX4 Series High Efficiency Flameproof 3-Phase Asynchronous Motor
YBX5 Series High Efficiency Flameproof 3-Phase Asynchronous Motor
YFB3 Series Dust Explosion-Proof 3-Phase Asynchronous Motor
YFB4 Series Dust Explosion-Proof 3-Phase Asynchronous Motor
YFB5 Series Dust Explosion-Proof 3-Phase Asynchronous Motor
Y3 Series 3-Phase Asynchronous Motor
Y Series High-Voltage 3-Phase Asynchronous Motor
YKK Series High-Voltage 3-Phase Asynchronous Motor
Y2 Series High-Voltage 3-Phase Asynchronous Motor
YX Series High Efficiency High-Voltage 3-Phase Asynchronous Motor
YR Series High-Voltage 3-Phase Wound Rotor Asynchronous Motor
YRKK Series High-Voltage 3-Phase Wound Rotor Asynchronous Motor
YFSS Series Doubly Fed Induction Windmill Generator
YFWK Series Doubly Fed Induction Windmill Generator

Cooperative Partner