

YBT4

隔爆型三相异步电动机

YBT4 Series Flameproof Three-phase Asynchronous Motor



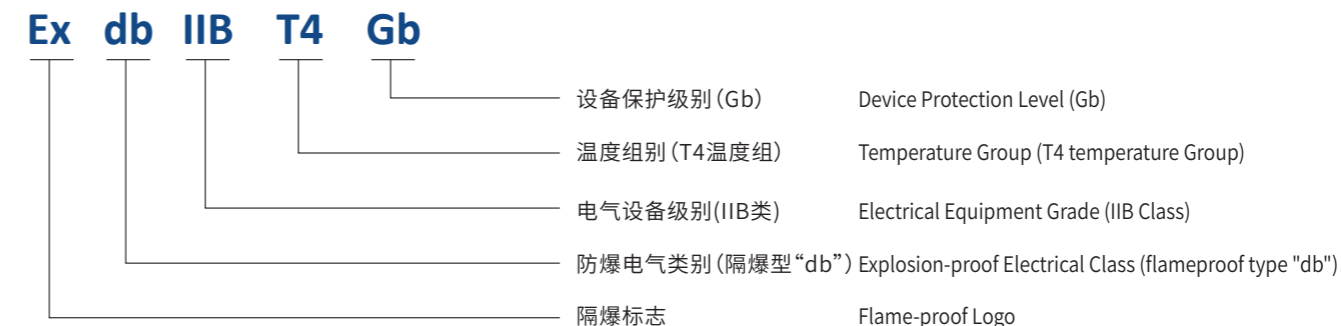
该系列电动机是我公司为爆炸性气体环境专门设计的一款隔爆型电动机，其效率指标满足GB18613-2020《中小型一相异步电动机能效限定值及能效等级》中的2级能效限定值，具有高效、节能、寿命长等优点。电机性能好，温升低，噪声、振动小。本系列电动机的隔爆性能符合GB3836.1-2021《爆炸性气体环境通用电气设备第1部分：通用要求》，GB3836.2-2021《爆炸性气体环境通用电气设备第1部分：隔爆型“d”》标准的规定，类别有ExdbIIBT4Gb、ExdbIIBT4Gb。

This series of motors is a flameproof type motor specially designed by our company for explosive gas environment. Its efficiency index meets the level 2 energy efficiency limit value in GB18613 "Energy Efficiency Limit value and Energy Efficiency Grade of Small and Medium-sized One-Phase Asynchronous Motors", which has the advantages of high efficiency, energy saving and long life, etc. Good motor performance, low vibration. The flameproof performance of this series motor conforms to the provisions of GB3836.1-2021 in General Electric Equipment for Environments with Explosive Gases--part 1: General Requirements, GB3836.2-2021 in General Electric Equipment for Environments with Explosive Gases--part 1: Flameproof type "d", and the categories include ExdbIIBT4Gb and ExdbIIBT4Gb.

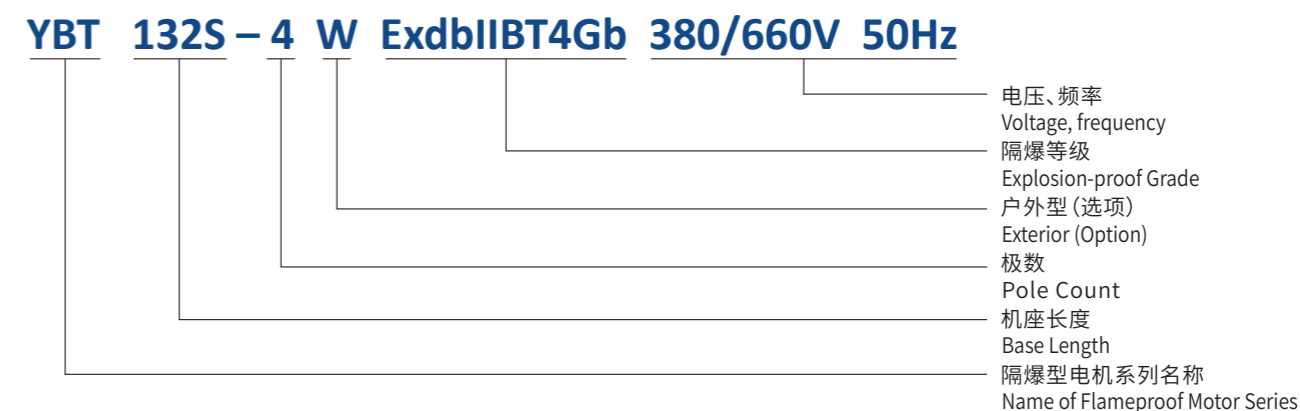
隔爆型ExdbIIBT4Gb 适用于工厂用IIA类，温度级别T1,T2,T3,T4组别爆炸性气体混合物存在的环境，代表气体：乙醛、三甲胺
It is suitable for the environment in which explosive gas mixtures of IIA, T1,T2,T3 and T4 are used in factories. The representative gases are acetaldehyde and trimethylamine.

隔爆型ExdbIIBT4Gb 适用于工厂用IIB类，温度级别T1,T2,T3,T4组别爆炸性气体混合物存在的环境，代表气体：乙基甲基醚、二乙醚
It is suitable for the environment where explosive gas mixture exists in IIB class, temperature grades T1,T2,T3 and T4, and the representative gases are ethyl methyl ether and diethyl ether.

隔爆等级说明 Description of Flameproof Level



产品型号示例 Sample Product Model

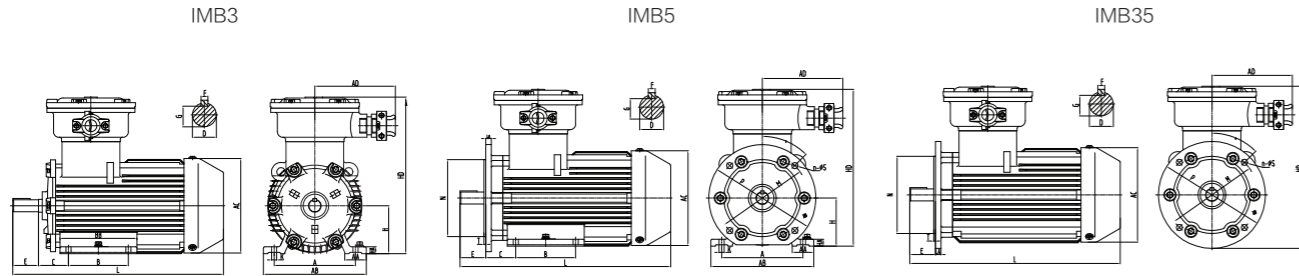


主要技术条件和使用条件 Main Technical Conditions and Service Conditions

额定电压 Rated Voltage	380V、380/660V、660V	额定频率 Rated Frequency	50Hz
防护等级 Protection Grade	IP55	绝缘等级 Insulation Class	F
冷却方式 Cooling Way	IC411	工作制 Work System	S1
安装型式 Installation Type	主要安装方式IMB3、IMB5、IMB35	海拔 Elevation	≤1000m
环境温度 Environment Temperature	-20~+40°C		

基本结构型式 Type of construction	机座带底脚、端盖上无凸缘 Frame with feet、Endshield without flange					
	B3	B6	B7	B8	V5	V6
安装结构型式 Mounting arrangement						
示意图 Diagram						
基本结构型式 Type of construction	机座无底脚、端盖上有凸缘 Frame without feet、Endshield with flange and hole			机座带底脚、端盖上有凸缘 Frame with feet、Endshield without flange		
	B5	V1	V3	B35	V15	V36
安装结构型式 Mounting arrangement						
示意图 Diagram						

YBT4系列隔爆型三相异步电动机安装及外形尺寸图 YBT Series Motor Mounting and Overall Dimensions



机座号 Frame Size	安装尺寸 Mounting Dimensions(mm)															外形尺寸 Overall Dimensions(mm)													
	A	B	C	D		E		F		G	H	K	M	N	P	T	n-φS	α	AA	AB	AC	AD	BB	HA	HD	LA	L		
				2P	4-6P	2P	4-6P	2P	4-6P	2P	4-6P															2P	4-6P		
80	125	100	50	19	40	6	15.5	80	10	165	130	200	3.5	4-φ12	45	34	160	167	190	130	10	295	12	330					
90S	140	100	56	24	50	8	20	90	10	165	130	200	3.5	4-φ12	45	36	180	180	190	135	14	315	12	370					
90L	140	125	56	24	50	8	20	90	10	165	130	200	3.5	4-φ12	45	36	180	180	190	155	14	315	12	395					
100L	160	140	63	28	60	8	24	100	12	215	180	250	4	4-φ14.5	45	43	200	207	190	176	14	340	13	445					
112M	190	140	70	28	60	8	24	112	12	215	180	250	4	4-φ14.5	45	50	240	221	205	180	16	370	13	495					
132S	216	140	89	38	80	10	33	132	12	265	230	300	4	4-φ14.5	45	60	276	260	205	190	18	415	13	510					
132M	216	178	89	38	80	10	33	132	12	265	230	300	4	4-φ14.5	45	60	276	260	205	230	18	415	15	550					
160M	254	210	108	42	110	12	37	160	14.5	300	250	350	5	4-φ18.5	45	70	324	315	210	258	20	490	16	680					
160L	254	254	108	42	110	12	37	160	14.5	300	250	350	5	4-φ18.5	45	70	324	315	210	302	20	490	16	710					
180M	279	241	121	48	110	14	42.5	180	14.5	300	250	350	5	4-φ18.5	45	70	349	356	210	311	20	530	18	765					
180L	279	279	121	48	110	14	42.5	180	14.5	300	250	350	5	4-φ18.5	45	70	349	356	210	349	20	530	18	785					
200L	318	305	133	55	110	16	49	200	18.5	350	300	400	5	4-φ18.5	45	70	388	400	235	366	25	585	20	835					
225S	356	286	149	-	60	-	140	-	18	-	53	225	18.5	4-φ18.5	22.5	75	431	446	235	355	28	630	20	-	875				
225M	356	311	149	55	60	110	140	16	18	49	53	225	18.5	4-φ18.5	22.5	75	431	446	235	380	28	630	20	875	905				
250M	406	349	168	60	65	140	18	18	53	58	250	24	500	450	550	5	8-φ18.5	22.5	80	486	495	280	420	30	715	22	955		
280S	457	368	190	65	75	140	18	20	58	67.5	280	24	500	450	550	5	8-φ18.5	22.5	85	542	548	280	438	35	780	25	995	1005	
280M	457	419	190	65	75	140	18	20	58	67.5	280	24	500	450	550	5	8-φ18.5	22.5	85	542	548	280	489	35	780	25	1050	1060	
315S	508	406	216	65	80	140	170	18	22	58	71	315	28	600	550	660	6	8-φ24	22.5	120	628	620	325	550	45	915	22	1185	1265
315M	508	457	216	65	80	140	170	18	22	58	71	315	28	600	550	660	6	8-φ24	22.5	120	628	620	325	680	45	915	22	1305	1395
315L	508	508	216	65	80	140	170	18	22	58	71	315	28	600	550	660	6	8-φ24	22.5	120	628	620	325	680	45	915	22	1305	1395
355S	610	500	254	75	95	140	170	20	25	67.5	86	355	28	740	680	800	6	8-φ24	22.5	116	726	700	325	636	52	1045	25	1455	1485
355M	610	560	254	75	95	140	170	20	25	67.5	86	355	28	740	680	800	6	8-φ24	22.5	116	726	700	325	696	52	1045	25	1535	1565
355L	610	630	254	75	95	140	170	20	25	67.5	86	355	28	740	680	800	6	8-φ24	22.5	116	726	700	325	766	52	1045	25	1645	1675

注: 若有特殊要求, 可按用户需求提供。 Please contact us with your requirement.

技术数据 Technical Data

型号 Type	功率 Output (kW)	电压 Voltage (V)	额定电流 Current (A)	效率 Efficiency (%)	功率因数 COSΦ	额定转速 Rated Speed (r/min)	堵转转矩 额定转矩 Tst/Tn	堵转电流 额定电流 Ist/In	最大转矩 额定转矩 Tm/Tn	重量 Weight (kg)
YBT4-4-80M1-2	0.75	380	1.64	83.5	0.83	2890	2.2	8.5	2.3	29
YBT4-80M2-2	1.1	380	2.36	85.2	0.83	2890	2.2	8.5	2.3	31
YBT4-80M1-4	0.55	380	1.33	83.9	0.75	1440	2.3	8.5	2.3	31
YBT4-80M2-4	0.75	380	1.80	85.7	0.74	1440	2.3	8.5	2.3	32
YBT4-80M1-6	0.37	380	1.03	78.0	0.70	925	2.1	7.5	2.1	29.5
YBT4-80M2-6	0.55	380	1.43	80.9	0.72	925	2.1	7.5	2.1	31
YBT4-80M1-8	0.18	380	0.67	67.2	0.61	675	2.0	7.0	2.0	30.5
YBT4-80M2-8	0.25	380	0.88	70.8	0.61	675	2.0	7.0	2.0	31.5
YBT4-90S-2	1.5	380	3.06	86.5	0.86	2900	2.2	9.0	2.3	37.5
YBT4-90L-2	2.2	380	4.37	88.0	0.87	2900	2.2	9.0	2.3	42
YBT4-90S-4	1.1	380	2.56	87.2	0.75	1445	2.3	8.5	2.3	38.5
YBT4-90L-4	1.5	380	3.40	88.2	0.76	1445	2.3	9.0	2.3	44
YBT4-90S-6	0.75	380	1.97	82.7	0.70	955	2.1	7.5	2.1	36
YBT4-90L-6	1.1	380	2.83	84.5	0.70	955	2.1	7.5	2.1	41
YBT4-90S-8	0.37	380	1.24	74.3	0.61	705	2.0	7.0	2.0	35
YBT4-90L-8	0.55	380	1.78	77.0	0.61	705	2.0	7.0	2.0	39.5
YBT4-100L-2	3	380	5.88	89.1	0.87	2910	2.2	9.5	2.3	53
YBT4-100L1-4	2.2	380	4.73	89.5	0.79	1455	2.3	9.5	2.3	54.5
YBT4-100L2-4	3	380	6.30	90.4	0.80	1455	2.3	9.5	2.3	58
YBT4-100L-6	1.5	380	3.74	85.9	0.71	960	2.1	7.5	2.1	52.5
YBT4-100L1-8	0.75	380	2.20	78.4	0.66	710	2.0	7.0	2.0	47
YBT4-10L2-8	1.1	380	3.09	80.8	0.67	710	2.0	7.0	2.0	49.5
YBT4-112M-2	4	380	7.67	90.0	0.88	2920	2.2	9.5	2.3	69
YBT4-112M-4	4	380	8.34	91.1	0.80	1460	2.3	9.5	2.3	77.5
YBT4-112M-6	2.2	380	5.39	87.4	0.71	970	2.1	7.5	2.1	70.5
YBT4-112M-8	1.5	380	4.00	82.6	0.69	710	2.0	7.0	2.0	65.5
YBT4-132S1-2	5.5	380	10.4	90.9	0.88	2935	2.0	9.5	2.3	92
YBT4-132S2-2	7.5	380	14.0	91.7	0.89	2935	2.0	9.5	2.3	97.5
YBT4-132S-4	5.5	380	11.4	91.9	0.80	1465	2.0	9.5	2.3	97.5
YBT4-132M-4	7.5	380	15.2	92.6	0.81	1465	2.0	9.5	2.3	110
YBT4-132S-6	3	380	7.25	88.6	0.71	975	2.0	8.0	2.1	89.5
YBT4-132M1-6	4	380	9.43	89.5	0.72	975	2.0	8.0	2.1	101
YBT4-132M2-6	5.5	380	12.8	90.5	0.72	975	2.0	8.0	2.1	110
YBT4-132S-8	2.2	380	5.65	84.5	0.70	715	1.8	7.5	2.0	86
YBT4-132M-8	3	380	7.58	85.9	0.70	715	1.8	7.8	2.0	97
YBT4-160M1-2	11	380	20.3	92.6	0.89	2955	2.0	9.5	2.3	152
YBT4-160M2-2	15	380	27.4	93.3	0.89	2955	2.0	9.5	2.3	164
YBT4-160L-2	18.5	380	33.7	93.8	0.89	2955	2.0	9.5	2.3	182
YBT4-160M-4	11	380	21.6	93.3	0.83	1475	2.0	9.5	2.3	157
YBT4-160L-4	15	380	28.9	93.9	0.84	1475	2.0	9.5	2.3	179
YBT4-160M-6	7.5	380	15.4	91.3	0.81	980	2.0	8.0	2.1	153
YBT4-160L-6	11	380	21.8	92.3	0.83	980	2.0	8.5	2.1	177
YBT4-160M1-8	4	380	9.83	87.1	0.71	720	1.8	7.9	2.0	132

技术数据 Technical Data

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YBT4-160M2-8	5.5	380	13.1	88.3	0.72	720	1.8	1.8	2.0	168
YBT4-160L-8	7.5	380	17.2	89.3	0.74	720	1.8	1.8	2.0	235
YBT4-180M-2	22	380	40.0	94.0	0.89	2960	2.0	2.0	2.3	225
YBT4-180M-4	18.5	380	35.1	94.2	0.85	1480	2.0	2.0	2.3	245
YBT4-180L-4	22	380	41.6	94.5	0.85	1480	2.0	2.0	2.3	227
YBT4-180L-6	15	380	29.2	92.9	0.84	980	2.0	2.0	2.1	214
YBT4-180L-8	11	380	24.0	90.4	0.77	725	1.8	1.8	2.0	235
YBT4-200L1-2	30	380	54.2	94.5	0.89	2970	2.0	2.0	2.3	296
YBT4-200L2-2	37	380	66.6	94.8	0.89	2970	2.0	2.0	2.3	316
YBT4-200L-4	30	380	56.5	94.9	0.85	2960	2.0	2.0	2.3	315
YBT4-200L1-6	18.5	380	37.6	93.4	0.80	985	2.0	2.0	2.1	286
YBT4-200L2-6	22	380	44.0	93.7	0.81	985	2.0	2.0	2.1	305
YBT4-200L-8	15	380	33.0	92.1	0.75	730	1.8	1.8	2.0	280
YBT4-225M-2	45	380	80.6	95.3	0.89	2975	2.0	2.0	2.3	382
YBT4-225S-4	37	380	69.5	95.2	0.85	1485	2.0	2.0	2.3	382
YBT4-225M-4	45	380	83.1	95.7	0.86	1485	2.0	2.0	2.3	411
YBT4-225M-6	30	380	59.0	94.2	0.82	985	2.0	2.0	2.1	366
YBT4-225S-8	18.5	380	40.9	91.7	0.75	735	1.8	1.8	2.0	344
YBT4-225M-8	22	380	47.8	92.1	0.76	735	1.8	1.8	2.0	374
YBT4-250M-2	55	380	98.5	95.3	0.89	2975	2.0	2.0	2.3	505
YBT4-250M-4	55	380	102	95.7	0.86	1485	2.0	2.0	2.3	520
YBT4-250M-6	37	380	71.7	94.5	0.83	985	2.0	2.0	2.1	487
YBT4-250M-8	30	380	63.9	92.7	0.77	735	1.8	1.8	2.0	460
YBT4-280S-2	75	380	75	380	134	95.6	0.89	0.89	1.8	668
YBT4-280M-2	90	380	90	380	160	95.8	0.89	0.89	1.8	720
YBT4-280S-4	75	380	75	380	137	95.7	0.87	0.87	2.0	710
YBT4-280M-4	90	380	90	380	162	96.0	0.88	0.88	2.0	782
YBT4-280S-6	45	380	45	380	85.9	94.8	0.84	0.84	2.0	635
YBT4-280M-6	55	380	55	380	105	95.1	0.84	0.84	2.0	695
YBT4-280S-8	37	380	37	380	77.4	93.1	0.78	0.78	1.8	629
YBT4-280M-8	45	380	45	380	91.5	93.4	0.80	0.80	1.8	678
YBT4-315S-2	110	380	196	96.0	0.89	2980	1.8	1.8	2.3	1013
YBT4-315M-2	132	380	234	96.2	0.89	2980	1.8	1.8	2.3	1154
YBT4-315L1-2	160	380	284	96.3	0.89	2980	1.8	1.8	2.2	1217
YBT4-315L2-2	200	380	354	96.5	0.89	2980	1.8	1.8	2.2	1276
YBT4-315S-4	110	380	195	96.3	0.89	1488	1.8	1.8	2.2	1057
YBT4-315M-4	132	380	234	96.4	0.89	1488	1.8	1.8	2.2	1196
YBT4-315L1-4	160	380	280	96.6	0.90	1488	1.8	1.8	2.2	1269
YBT4-315L2-4	200	380	349	96.7	0.90	1488	1.8	1.8	2.2	1368
YBT4-315S-6	75	380	142	95.4	0.84	990	1.6	1.6	2.0	997
YBT4-315M-6	90	380	168	95.6	0.85	990	1.6	1.6	2.0	1123
YBT4-315L1-6	110	380	205	95.8	0.85	990	1.6	1.6	2.0	1236
YBT4-315L2-6	132	380	243	96.0	0.86	990	1.6	1.6	2.0	1342

型号 Type	功率 Output (kW)	电压 Voltage (V)	额定电流 Current (A)	效率 Efficiency (%)	功率因数 COSΦ	额定转速 Rated Speed (r/min)	堵转转矩 额定转矩 Tst/Tn	堵转电流 额定电流 Ist/In	最大转矩 额定转矩 Tm/Tn	重量 Weight (kg)
YBT4-315S-8	55	380	111	93.7	0.80	740	1.6	8.2	2.0	942
YBT4-315M-8	75	380	149	94.2	0.81	740	1.6	7.6	2.0	1147
YBT4-315L1-8	90	380	179	94.4	0.81	740	1.6	7.7	2.0	1228
YBT4-315L2-8	110	380	218	94.7	0.81	740	1.6	7.7	2.0	1325
YBT4-355S1-2	185	380	328	96.4	0.89	2985	1.6	8.5	2.2	1620
YBT4-355S2-2	200	380	354	96.5	0.89	2985	1.6	8.5	2.2	1700
YBT4-355M1-2	220	380	385	96.5	0.90	2985	1.6	8.5	2.2	1760
YBT4-355M2-2	250	380	433	96.5	0.91	2985	1.6	8.5	2.2	1855
YBT4-355L1-2	280	380	484	96.5	0.91	2985	1.6	8.5	2.2	1930
YBT4-355L2-2	315	380	545	96.5	0.91	2985	1.6	8.5	2.2	2085
YBT4-355S1-4	185	380	323	96.7	0.90	1490	1.8	8.5	2.2	1690
YBT4-355S2-4	200	380	349	96.7	0.90	1490	1.8	8.5	2.2	1730
YBT4-355M1-4	220	380	384	96.7	0.90	1490	1.8	8.5	2.2	1820
YBT4-355M2-4	250	380	436	96.7	0.90	1490	1.8	8.5	2.2	1890
YBT4-355L1-4	280	380	489	96.7	0.90	1490	1.8	8.5	2.2	2025
YBT4-355L2-4	315	380	550	96.7	0.90	1490	1.8	8.5	2.2	2105
YBT4-355S-6	160	380	294	96.2	0.86	990	1.6	8.0	2.0	1756
YBT4-355M1-6	185	380	339	96.3	0.86	990	1.6	8.0	2.0	1868
YBT4-355M2-6	200	380	367	96.3	0.86	990	1.6	8.0	2.0	1960
YBT4-355L1-6	220	380	403	96.4	0.86	990	1.6	8.0	2.0	2108
YBT4-355L2-6	250	380	458	96.5	0.86	990	1.6	8.0	2.0	2280
YBT4-355S-8	132	380	261	94.9	0.81	740	1.6	7.7	2.0	1741
YBT4-355M-8	160	380	312	95.1	0.82	740	1.6	7.7	2.0	1939
YBT4-355L1-8	185	380	360	95.3	0.82	740	1.6	7.8	2.0	2135
YBT4-355L2-8	200	380	388	95.4	0.82	740	1.6	7.8	2.0	2250

注: 若有特殊要求, 可按用户需求提供。 Please contact us with your requirement.