



High - performance vector frequency converter
All-in-one
Customized frequency converter
Permanent magnet Energy Saving synchronous motor



Permanent Magnet Energy Saving Variable Frequency Motor

Craft with dedication, serve with devotion

Xicheng Energy-Saving: Empowering Value Through Technology

Do reliable things, be a reliable person



CATALOGUE

A high-tech enterprise specializing in the development and application of intelligent control products.



The company has always attached great importance to product R&D. It boasts a professional R&D team and has established long-term cooperative relationships with universities, research institutions, and large state-owned enterprises, among others.

The R&D team adopts modern design theories and advanced design technologies, continuously creating innovative, reliable, and personalized products for the field of automatic control.

PERMANENT MAGNET ENERGY SAVING SYNCHRONOUS MOTOR-SPLIT MACHINE	01-8
DRIVE INTERGRATED PERMANENT MAGNET ENERGY SAVING MOTOR	09-16
PERMANENT MAGNET ENERGY SAVING DIRECT DRIVE MOTOR	17-20
EXTERNAL ROTOR PERMANENT MAGNET ENERGY SAVING MOTOR	21-22
EXTERNAL VARIABLE FREQUENCY DRIVE	23-28

Permanent Magnet Energy Saving Synchronous Motor —Split Machine

The split-type permanent magnet Energy Saving synchronous motor also features high energy efficiency, strong overload capacity, high efficiency, high power factor, stable operation, and simple maintenance. When paired with an external driver, it can maximize the advantages of the permanent magnet variable frequency synchronous motor.

Application fields: mainly used in fans and water pumps, and applicable to industries such as laboratory textiles, electroplating, chemical industry, and food industry, replacing the asynchronous motors currently used in supporting facilities.



Permanent Magnet Energy Saving Synchronous Motor (PMSM) - Split-Type Unit

6+ Major Advantages

- ★ First-level energy efficiency, effectively saving 5-15% energy
- ★ Natural soft start
- ★ Wide application range
- ★ Low temperature rise and long service life
- ★ Large torque and high efficiency
- ★ High power factor

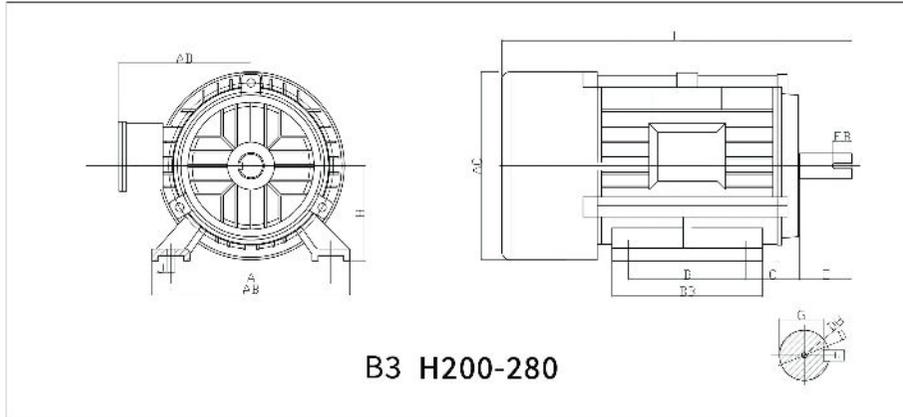


External Inverter

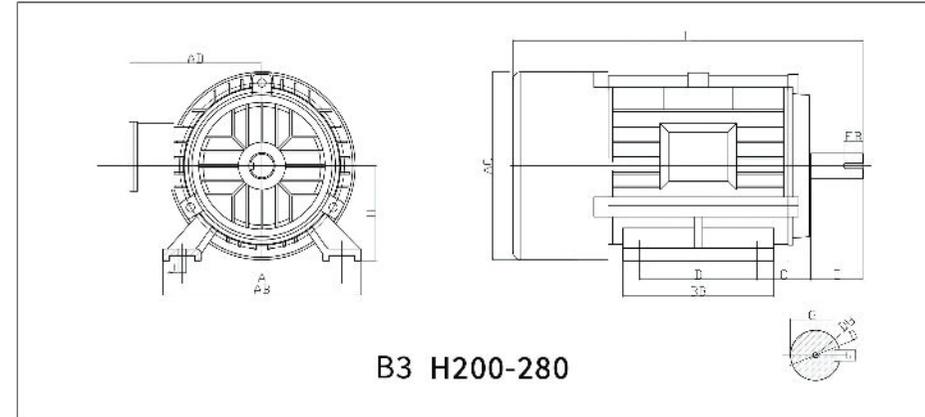
Permanent Magnet Synchronous Motor — Split Machine Parameters

Motor Model	Frame Size	Power (KW)	Number of Poles (P)	Voltage (V)	Frequency (Hz)	Current (A)	Speed (rpm)	Torque (N.m)	Efficiency (%)	Noise dB(A)	Insulation Class
TYB80 0.75-3000	80	0.75	8	380	200	1.25	3000	2.39	88.6	62	B
TYB80-0.75-1500	80	0.75	8	380	100	1.25	1500	4.78	85.6	54	B
TYB80-1.1-3000	80	1.1	8	380	200	1.9	3000	3.5	89.8	62	B
TYB80 1.1-1500	80	1.1	8	380	100	1.9	1500	7	87.4	54	B
TYB90 1.5-3000	90	1.5	8	380	200	2.5	3000	4.78	90.9	64	B
TYB90-1.5-1500	90	1.5	8	380	100	2.5	1500	9.56	88.1	56	B
TYB90 2.2-3000	90	2.2	8	380	200	3.86	3000	7	91.8	64	B
TYB90 2.2-1500	90	2.2	8	380	100	3.86	1500	14	89.7	56	B
TYB112-3-3000	112	3	8	380	200	4.9	3000	9.56	92.6	67	B
TYB112-3-1500	112	3	8	380	100	4.9	1500	19.1	90.3	59	B
TYB112 4-3000	112	4	8	380	200	6.5	3000	12.73	93.3	67	B
TYB112-4-1500	112	4	8	380	100	6.5	1500	25.47	90.9	59	B
TYB132-5.5-3000	132	5.5	8	380	200	9	3000	17.51	94	70	B
TYB132 5.5-1500	132	5.5	8	380	100	9	1500	35.02	92.1	62	B
TYB132-7.5-3000	132	7.5	8	380	200	12.3	3000	23.88	94.5	70	B
TYB132-7.5-1500	132	7.5	8	380	100	12.3	1500	47.75	92.5	62	B
TYB160 11-3000	160	11	8	380	200	18.1	3000	35.02	95	73	B
TYB160 11-1500	160	11	8	380	100	18.1	1500	70.04	93.6	65	B
TYB160-15-3000	160	15	8	380	200	24.6	3000	47.75	95.3	73	B
TYB160-15-1500	160	15	8	380	100	24.6	1500	95.5	94	65	B
TYB160 18.5-3000	160	18.5	8	380	200	32.3	3000	58.9	95.6	73	B
TYB160-18.5-1500	160	18.5	8	380	100	32.3	1500	117.78	94.3	65	B
TYB160-22-3000	160	22	8	380	200	39.2	3000	70.04	95.9	73	B
TYB200-22-1500	200	22	8	380	100	39.2	1500	140.01	94.7	66	B
TYB200-30-3000	200	30	8	380	200	57.5	3000	95.5	96.1	71.5	B
TYB200-30-1500	200	30	8	380	100	57.5	1500	191	95	66	B
TYB200-37-3000	200	37	8	380	200	71.3	3000	117.78	96.3	71.5	B
TYB200 37-1500	200	37	8	380	100	71.3	1500	235.57	95.3	66	B
TYB225-45-3000	225	45	8	380	200	86.5	3000	143.25	96.4	73	B
TYB225-45-1500	225	45	8	380	100	86.5	1500	286.5	95.6	67.5	B
TYB225 55-3000	225	55	8	380	200	103.2	3000	175.08	96.5	73	B
TYB225-55-1500	225	55	8	380	100	103.2	1500	350.17	95.8	67.5	B
TYB280-75-3000	280	75	8	380	200	142.8	3000	238.75	96.6	74	B
TYB280 75-1500	280	75	8	380	100	142.8	1500	477.5	96	69	B
TYB280-90-3000	280	90	8	380	200	169.5	3000	286.5	96.7	74	B
TYB280-90-1500	280	90	8	380	100	169.5	1500	573	96.2	69	B

Installation Method B3



Installation Method B3



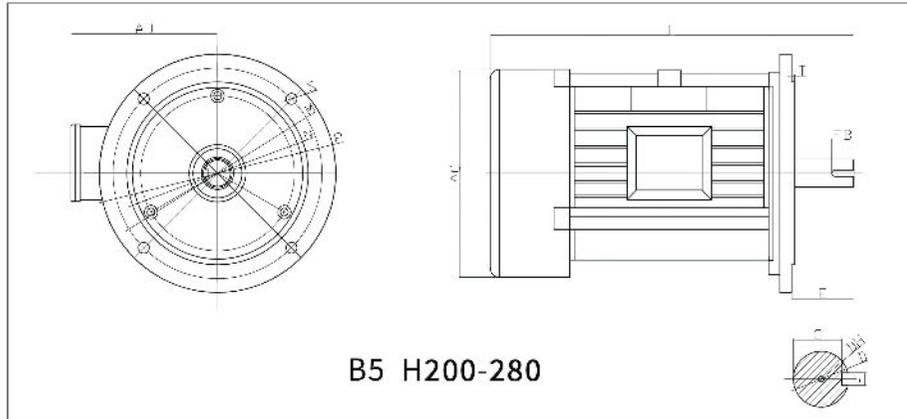
B3 Installation Size

Motor Model	Frame Size	A	B	BB	C	D	DH	E	EB	F	G	H	J	AB	AC	AD	L	Weight (KG)
TYB80-0.75-3000	80	125	80	128	50	19	M6*15	40	30	6	15.5	80	10	160	155	130	335	10.3
TYB80-0.75-1500	80	125	80	128	50	19	M6*15	40	30	6	15.5	80	10	160	155	130	335	12.6
TYB80-1.1-3000	80	125	80	128	50	19	M6*15	40	30	6	15.5	80	10	160	155	130	335	11.4
TYB80-1.1-1500	80	125	80	128	50	19	M6*15	40	30	6	15.5	80	10	160	155	130	335	13.7
TYB90-1.5-3000	90	140	80	140	71	24	M8*20	80	45	8	20	90	10	175	175	140	390	12.5
TYB90-1.5-1500	90	140	80	140	71	24	M8*20	80	45	8	20	90	10	175	175	140	390	13.6
TYB90-2.2-3000	90	140	80	140	71	24	M8*20	80	45	8	20	90	10	175	175	140	390	16.7
TYB90-2.2-1500	90	140	80	140	71	24	M8*20	80	45	8	20	90	10	175	175	140	390	21.3
TYB112-3-3000	112	190	90	154	85	28	M8*20	90	45	8	24	112	12	225	210	180	485	23.8
TYB112-3-1500	112	190	90	154	85	28	M8*20	90	45	8	24	112	12	225	210	180	485	28.5
TYB112-4-3000	112	190	90	154	85	28	M8*20	90	45	8	24	112	12	225	210	180	485	25.7
TYB112-4-1500	112	190	90	154	85	28	M8*20	90	45	8	24	112	12	225	210	180	485	32.3
TYB132-5.5-3000	132	216	90	170	104	38	M8*20	98	60	10	33	132	12	260	255	200	563	36.7
TYB132-5.5-1500	132	216	90	170	104	38	M8*20	98	60	10	33	132	12	260	255	200	563	42.1
TYB132-7.5-3000	132	216	90	170	104	38	M8*20	98	60	10	33	132	12	260	255	200	563	39.4
TYB132-7.5-1500	132	216	90	170	104	38	M8*20	98	60	10	33	132	12	260	255	200	563	47.5
TYB160-11-3000	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	683	57.1
TYB160-11-1500	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	683	67.3
TYB160-15-3000	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	683	62.2
TYB160-15-1500	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	683	81.8
TYB160-18.5-3000	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	683	65.3
TYB160-18.5-1500	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	683	96.3
TYB160-22-3000	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	683	67.3

B3 Installation Size

Motor Model	Frame Size	A	B	BB	C	D	DH	E	EB	F	G	H	J	AB	AC	AD	L	Weight (KG)
TYB200-22-1500	200	318	305	370	133	55	M20*42	110	85	16	49	200	19	390	395	305	840	135.4
TYB200-30-3000	200	318	305	370	133	55	M20*42	110	85	16	49	200	19	390	395	305	840	116.9
TYB200-30-1500	200	318	305	370	133	55	M20*42	110	85	16	49	200	19	390	395	305	840	153.9
TYB200-37-3000	200	318	305	370	133	55	M20*42	110	85	16	49	200	19	390	395	305	840	130.6
TYB200-37-1500	200	318	305	370	133	55	M20*42	110	85	16	49	200	19	390	395	305	840	176.4
TYB225-45-3000	225	356	286	355	149	60	M20*42	140	95	18	53	225	19	435	440	360	890	158.5
TYB225-45-1500	225	356	286	355	149	60	M20*42	140	95	18	53	225	19	435	440	360	890	210.1
TYB225-55-3000	225	356	286	355	149	60	M20*42	140	95	18	53	225	19	435	440	360	890	170.6
TYB225-55-1500	225	356	286	355	149	60	M20*42	140	95	18	53	225	19	435	440	360	890	235
TYB280-75-3000	280	457	368	445	190	75	M20*42	140	95	20	67.5	280	24	545	540	480	1010	284.4
TYB280-75-1500	280	457	368	445	190	75	M20*42	140	95	20	67.5	280	24	545	540	480	1010	367.3
TYB280-90-3000	280	457	368	445	190	75	M20*42	140	95	20	67.5	280	24	545	540	480	1010	319.5
TYB280-90-1500	280	457	368	445	190	75	M20*42	140	95	20	67.5	280	24	545	540	480	1010	415.8

Installation Method B5

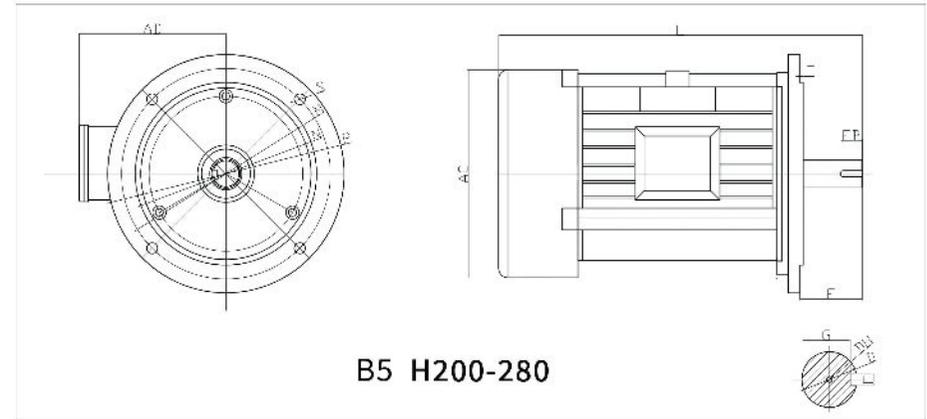


B5 H200-280

B5 Installation Size

Motor Model	Frame Size	D	DH	E	EB	F	G	AC	AD	L	M	N	P	S	T	Weight (KG)
TYB80-0.75-3000	80	19	M6*15	40	30	6	15.5	155	130	310	165	130	200	12	3.5	8.3
TYB80-0.75-1500	80	19	M6*15	40	30	6	15.5	155	130	310	165	130	200	12	3.5	10.6
TYB80-1.1-3000	80	19	M6*15	40	30	6	15.5	155	130	310	165	130	200	12	3.5	9.4
TYB80-1.1-1500	80	19	M6*15	40	30	6	15.5	155	130	310	165	130	200	12	3.5	11.7
TYB90-1.5-3000	90	24	M8*20	55	45	8	20	175	140	330	165	130	200	12	3.5	10.5
TYB90-1.5-1500	90	24	M8*20	55	45	8	20	175	140	330	165	130	200	12	3.5	10.6
TYB90-2.2-3000	90	24	M8*20	55	45	8	20	175	140	330	165	130	200	12	3.5	14.7
TYB90-2.2-1500	90	24	M8*20	55	45	8	20	175	140	330	165	130	200	12	3.5	19.3
TYB112-3-3000	112	28	M8*20	65	45	8	24	210	180	440	215	180	250	14.5	4	21.3
TYB112-3-1500	112	28	M8*20	65	45	8	24	210	180	440	215	180	250	14.5	4	26
TYB112-4-3000	112	28	M8*20	65	45	8	24	210	180	440	215	180	250	14.5	4	23.4
TYB112-4-1500	112	28	M8*20	65	45	8	24	210	180	520	215	180	250	14.5	4	30
TYB132-5.5-3000	132	38	M8*20	80	60	10	33	255	200	520	265	230	300	14.5	4	34.4
TYB132-5.5-1500	132	38	M8*20	80	60	10	33	255	200	520	265	230	300	14.5	4	39.5
TYB132-7.5-3000	132	38	M8*20	80	60	10	33	255	200	520	265	230	300	14.5	4	36.8
TYB132-7.5-1500	132	38	M8*20	80	60	10	33	255	200	520	265	230	300	14.5	4	45.9
TYB160-11-3000	160	42	M12*28	110	80	12	37	310	255	675	300	250	350	18.5	5	53.1
TYB160-11-1500	160	42	M12*28	110	80	12	37	310	255	675	300	250	350	18.5	5	62.3
TYB160-15-3000	160	42	M12*28	110	80	12	37	310	255	675	300	250	350	18.5	5	57.2
TYB160-15-1500	160	42	M12*28	110	80	12	37	310	255	675	300	250	350	18.5	5	76.8
TYB160-18.5-3000	160	42	M12*28	110	80	12	37	310	255	675	300	250	350	18.5	5	60.3
TYB160-18.5-1500	160	42	M12*28	110	80	12	37	310	255	675	300	250	350	18.5	5	91.3
TYB160-22-3000	160	42	M12*28	110	80	12	37	310	255	675	300	250	350	18.5	5	62.3

Installation Method B5

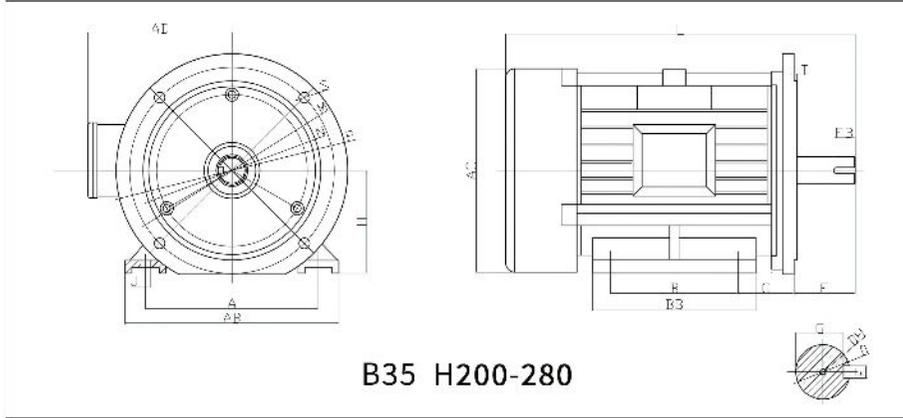


B5 H200-280

B5 Installation Size

Motor Model	Frame Size	D	DH	E	EB	F	G	AC	AD	L	M	N	P	S	T	Number of holes	Weight (KG)
TYB200-22-1500	200	55	M20*42	110	85	16	49	395	305	840	350	300	400	19	5	4	125.4
TYB200-30-3000	200	55	M20*42	110	85	16	49	395	305	840	350	300	400	19	5	4	106.9
TYB200-30-1500	200	55	M20*42	110	85	16	49	395	305	840	350	300	400	19	5	4	143.9
TYB200-37-3000	200	55	M20*42	110	85	16	49	395	305	840	350	300	400	19	5	4	120.6
TYB200-37-1500	200	55	M20*42	110	85	16	49	395	305	840	350	300	400	19	5	4	166.4
TYB225-45-3000	225	60	M20*42	140	95	18	53	440	360	890	400	350	450	19	5	8	143.5
TYB225-45-1500	225	60	M20*42	140	95	18	53	440	360	890	400	350	450	19	5	8	195.1
TYB225-55-3000	225	60	M20*42	140	95	18	53	440	360	890	400	350	450	19	5	8	155.6
TYB225-55-1500	225	60	M20*42	140	95	18	53	440	360	890	400	350	450	19	5	8	220
TYB280-75-3000	280	75	M20*42	140	95	20	67.5	540	480	1010	500	450	550	19	5	8	264.4
TYB280-75-1500	280	75	M20*42	140	95	20	67.5	540	480	1010	500	450	550	19	5	8	347.3
TYB280-90-3000	280	75	M20*42	140	95	20	67.5	540	480	1010	500	450	550	19	5	8	300.5
TYB280-90-1500	280	75	M20*42	140	95	20	67.5	540	480	1010	500	450	550	19	5	8	400.8

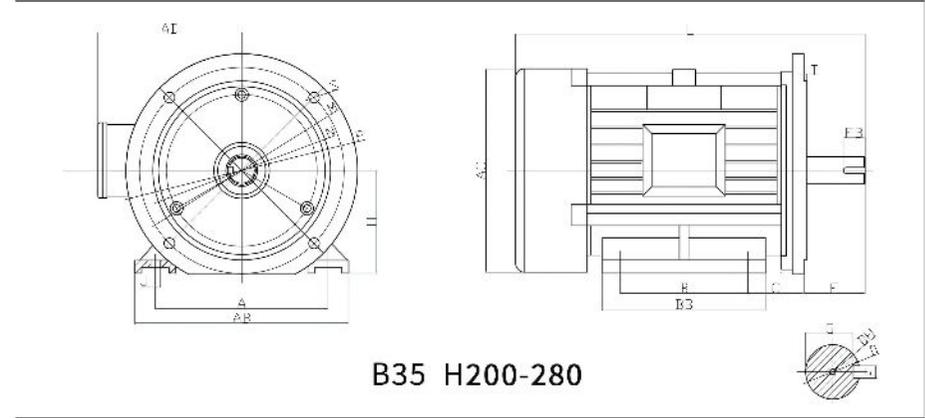
Installation Method B35



B35 Installation Size

Motor Model	Frame Size	A	B	BB	C	D	DH	E	EB	F	G	H	J	AB	AC	AD	L	M	N	P	S	T	Weight (KG)
TYB80-0.75-3000	80	125	80	128	50	19	M6*15	40	30	6	15.5	80	10	160	155	130	335	165	130	200	12	3.5	12.3
TYB80-0.75-1500	80	125	80	128	50	19	M6*15	40	30	6	15.5	80	10	160	155	130	335	165	130	200	12	3.5	14.6
TYB80-1.1-3000	80	125	80	128	50	19	M6*15	40	30	6	15.5	80	10	160	155	130	335	165	130	200	12	3.5	13.4
TYB80-1.1-1500	80	125	80	128	50	19	M6*15	40	30	6	15.5	80	10	160	155	130	335	165	130	200	12	3.5	15.7
TYB90-1.5-3000	90	140	80	140	56	24	M8*20	55	45	8	20	90	10	175	175	140	365	165	130	200	12	3.5	15
TYB90-1.5-1500	90	140	80	140	56	24	M8*20	55	45	8	20	90	10	175	175	140	365	165	130	200	12	3.5	16.1
TYB90-2.2-3000	90	140	80	140	56	24	M8*20	55	45	8	20	90	10	175	175	140	365	165	130	200	12	3.5	19.2
TYB90-2.2-1500	90	140	80	140	56	24	M8*20	55	45	8	20	90	10	175	175	140	365	165	130	200	12	3.5	23.8
TYB112-3-3000	112	190	90	154	70	28	M8*20	65	45	8	24	112	12	225	210	180	460	215	180	250	14.5	4	26.8
TYB112-3-1500	112	190	90	154	70	28	M8*20	65	45	8	24	112	12	225	210	180	460	215	180	250	14.5	4	31.5
TYB112-4-3000	112	190	90	154	70	28	M8*20	65	45	8	24	112	12	225	210	180	460	215	180	250	14.5	4	28.7
TYB112-4-1500	112	190	90	154	70	28	M8*20	65	45	8	24	112	12	225	210	180	460	215	180	250	14.5	4	35.3
TYB132-5.5-3000	132	216	90	170	89	38	M8*20	80	60	10	33	132	12	260	255	200	545	265	230	300	14.5	4	40.7
TYB132-5.5-1500	132	216	90	170	89	38	M8*20	80	60	10	33	132	12	260	255	200	545	265	230	300	14.5	4	46.1
TYB132-7.5-3000	132	216	90	170	89	38	M8*20	80	60	10	33	132	12	260	255	200	545	265	230	300	14.5	4	53.4
TYB132-7.5-1500	132	216	90	170	89	38	M8*20	80	60	10	33	132	12	260	255	200	545	265	230	300	14.5	4	51.5
TYB160-11-3000	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	705	300	250	350	18.5	5	63.1
TYB160-11-1500	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	705	300	250	350	18.5	5	73.3
TYB160-15-3000	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	705	300	250	350	18.5	5	68.2
TYB160-15-1500	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	705	300	250	350	18.5	5	87.8
TYB160-18.5-3000	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	705	300	250	350	18.5	5	71.3
TYB160-18.5-1500	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	705	300	250	350	18.5	5	102.3
TYB160-22-3000	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	705	300	250	350	18.5	5	73.3

Installation Method B35



B35 Installation Size

Motor Model	Frame Size	A	B	BB	C	D	DH	E	EB	F	G	H	J	AB	AC	AD	L	M	N	P	S	T	Number of holes	Weight (KG)
TYB200-22-1500	200	318	305	370	133	55	M20*42	110	85	16	49	200	19	390	395	305	840	350	300	400	19	5	4	140.4
TYB200-30-3000	200	318	305	370	133	55	M20*42	110	85	16	49	200	19	390	395	305	840	350	300	400	19	5	4	121.9
TYB200-30-1500	200	318	305	370	133	55	M20*42	110	85	16	49	200	19	390	395	305	840	350	300	400	19	5	4	158.9
TYB200-37-3000	200	318	305	370	133	55	M20*42	110	85	16	49	200	19	390	395	305	840	350	300	400	19	5	4	135.6
TYB200-37-1500	200	318	305	370	133	55	M20*42	110	85	16	49	200	19	390	395	305	840	350	300	400	19	5	4	181.4
TYB225-45-3000	225	356	286	355	149	60	M20*42	140	95	18	53	225	19	435	440	360	890	400	350	450	19	5	8	164.5
TYB225-45-1500	225	356	286	355	149	60	M20*42	140	95	18	53	225	19	435	440	360	890	400	350	450	19	5	8	218.1
TYB225-55-3000	225	356	286	355	149	60	M20*42	140	95	18	53	225	19	435	440	360	890	400	350	450	19	5	8	178.6
TYB225-55-1500	225	356	286	355	149	60	M20*42	140	95	18	53	225	19	435	440	360	890	400	350	450	19	5	8	243
TYB280-75-3000	280	457	368	445	190	75	M20*42	140	95	20	67.5	280	24	545	540	480	1010	500	450	550	19	5	8	294.4
TYB280-75-1500	280	457	368	445	190	75	M20*42	140	95	20	67.5	280	24	545	540	480	1010	500	450	550	19	5	8	377.3
TYB280-90-3000	280	457	368	445	190	75	M20*42	140	95	20	67.5	280	24	545	540	480	1010	500	450	550	19	5	8	329.5
TYB280-90-1500	280	457	368	445	190	75	M20*42	140	95	20	67.5	280	24	545	540	480	1010	500	450	550	19	5	8	425.8

Drive Intergrated Permanent Magnet Energy Saving Motor

The drive intergrated permanent magnet Energy Saving motor can easily reach Level 1 energy efficiency. Its efficiency index meets the Level 1 standard specified in GB30253 - 2013 Minimum Allowable Values of Energy Efficiency and Energy Efficiency Grades for Permanent Magnet Synchronous Motors, reaching the advanced level among similar products.

Adopting advanced permanent magnet technology, it features high torque density and power density, which can meet various demands for high load and high efficiency, and provide stable and reliable power for your equipment.

Application fields: it is mainly used in fans and water pumps, and can be applied in industries such as laboratories, textiles, electroplating, chemical engineering, and food processing, replacing the asynchronous motors currently used in supporting facilities.



horizontal

9+ Great advantages

- ★ Compact size and light weight
- ★ Level 1 energy efficiency 5-15%
- ★ Intelligent and easy to operate
- ★ Integrated design
- ★ Natural soft start
- ★ Wide application range
- ★ Low temperature and long service life
- ★ High torque and high efficiency
- ★ High power factor

12+ types of protection

- ★ Stall
- ★ Overload
- ★ Overvoltage
- ★ Undervoltage
- ★ Overheating
- ★ Overcurrent
- ★ Motor fault
- ★ Voltage fault
- ★ Hardware fault
- ★ Phase loss
- ★ Overspeed
- ★ Reverse rotation



Vertical

Permanent Magnet Energy Saving Fan Motor



Permanent Magnet Energy Saving Water Pump Motor



Patents and Certifications



Product Advantages

1. Level 1 Energy Efficiency

The efficiency index meets Level 1 standards specified in GB30253-2013 Minimum Allowable Values of Energy Efficiency and Energy Efficiency Grades for Permanent Magnet Energy Saving Synchronous Motors, reaching the advanced level among similar products.

2. Serialized Design

With serialized design, all products are developed in accordance with national standard frame sizes. Featuring a simple structure, they can perfectly replace existing AC induction motors. Users do not need to modify the current installation dimensions when using the integrated motor.

3. Simple installation and wiring

Traditional AC motor speed regulation requires an external frequency converter connected to the motor, along with parameter settings, which can only be completed by professional electricians. However, the integrated drive permanent magnet motor has a built-in driver, eliminating the need for an external PLC. Parameters are pre-set at the factory, and it can be connected with just three wires—no risk of reverse rotation. It starts operating as soon as it is powered on, offering higher cost performance.

Introduction to the Operation and Display Interface



1. The operation panel allows for operations such as modifying the functional parameters of the frequency converter, monitoring the working status of the frequency converter, and controlling the operation of the frequency converter (starting, stopping), etc. Its appearance and functional areas are shown in the left figure.

● RUN: the light is on when the frequency converter is in operation, and off when the frequency converter is in a stopped state.

● ALM: tuning/torque control/fault indicator light. The light being on indicates that it is in torque control mode; the light flashing slowly indicates that it is in tuning state; the light flashing quickly indicates that it is in fault state.

Hz — RMP — A — % — V : HZ unit of frequency
 ○ — RMP — ● — % — ○ : A unit of current
 Hz — RMP — A — % — V : V unit of voltage
 ● — RMP — ● — % — ○ : RMP unit of rotational speed
 Hz — RMP — A — % — V : %percentage

Hz — RMP — A — % — V : Unit indicator lights, which are used to indicate the unit of the currently displayed data, include the following types of units: (○ :indicates off ● :indicates on)

2. Digital display area

It consists of a 5-digit LED display, which can show the set frequency, output frequency, various monitoring data, alarm codes, etc.

3. Panel start-stop control:

Through keyboard operation, set function code F0-02 to 0, which is the panel start-stop control mode. Press the RUN key on the keyboard, and the frequency converter will start running (the RUN indicator light will be on); when the frequency converter is running, press the STOP key on the keyboard, and the frequency converter will stop running (the RUN indicator light will go off).

Aviation Plug Interface Description



Explanation of Terminal Interfaces

Interface	Terminal Symbol	Terminal Description
1	15V	Provide 15V power supply outward
2	AI2	0-10V-Analog input terminal, input voltage range 0 - 10V
3	485A	Communication interface A
4	485B	Communication interface B
5	DO1	Digital output, dual polarity open drain output Voltage range: 0V - 24V; Output current range: 0mA - 50mA
6	DI1	Digital input, input voltage range 9 - 24V
7	DI2	Digital input, input voltage range 9 - 24V
8	GND	Ground

*Interface 9 is empty

Product Model Example

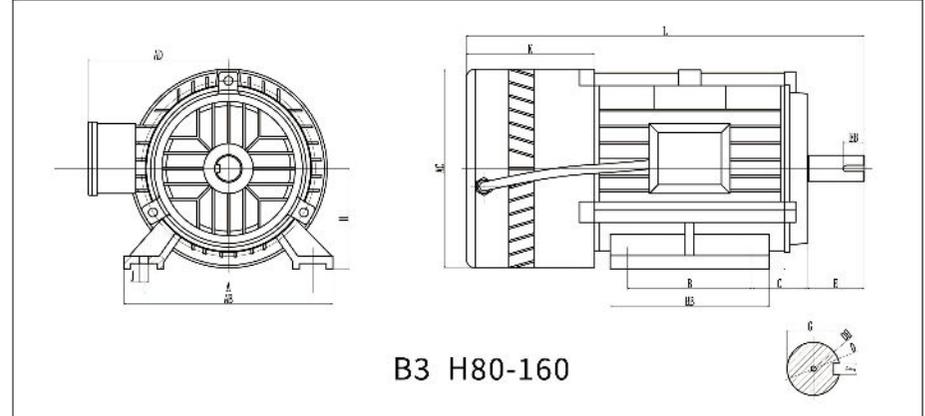
TYB 80 0.75 3000

- 3000: Rotational Speed (rpm)
- 0.75: Power (KW)
- 80: Frame Size
- TYB: Synchronous Permanent Magnet Variable Frequency Series

Drive Integrated Permanent Magnet Energy Saving Motor Parameters

Motor Model	Frame Size	Power (KW)	Number of Poles (P)	Voltage (V)	Frequency (HZ)	Current (A)	Speed (rpm)	Torque (N.m)	Efficiency (%)	Noise dB(A)	Insulation Class
TYB80-0.75-3000	80	0.75	8	380	200	1.25	3000	2.39	89.6	62	B
TYB80-0.75-1500	80	0.75	8	380	100	1.25	1500	4.78	85.6	54	B
TYB80-1.1-3000	80	1.1	8	380	200	1.9	3000	3.5	89.8	62	B
TYB80-1.1-1500	80	1.1	8	380	100	1.9	1500	7.0	87.4	54	B
TYB90-1.5-3000	90	1.5	8	380	200	2.5	3000	4.78	90.9	64	B
TYB90-1.5-1500	90	1.5	8	380	100	2.5	1500	9.56	88.1	56	B
TYB90-2.2-3000	90	2.2	8	380	200	3.86	3000	7	91.8	64	B
TYB90-2.2-1500	90	2.2	8	380	100	3.86	1500	14	89.7	56	B
TYB112-3-3000	112	3	8	380	200	4.9	3000	9.55	92.6	67	B
TYB112-3-1500	112	3	8	380	100	4.9	1500	19.10	90.3	59	B
TYB112-4-3000	112	4	8	380	200	6.5	3000	12.73	93.3	67	B
TYB112-4-1500	112	4	8	380	100	6.5	1500	25.47	90.9	59	B
TYB132-5.5-3000	132	5.5	8	380	200	9	3000	17.51	94	70	B
TYB132-5.5-1500	132	5.5	8	380	100	9	1500	35.02	92.1	62	B
TYB132-7.5-3000	132	7.5	8	380	200	12.3	3000	23.88	94.5	70	B
TYB132-7.5-1500	132	7.5	8	380	100	12.3	1500	47.75	92.5	62	B
TYB160-11-3000	160	11	8	380	200	18.1	3000	35.02	95	73	B
TYB160-11-1500	160	11	8	380	100	18.1	1500	70.04	93.6	65	B
TYB160-15-3000	160	15	8	380	200	24.6	3000	47.75	95.3	73	B
TYB160-15-1500	160	15	8	380	100	24.6	1500	95.5	94	65	B
TYB160-18.5-3000	160	18.5	8	380	200	32.3	3000	58.9	95.6	73	B
TYB160-18.5-1500	160	18.5	8	380	100	32.3	1500	117.78	94.3	65	B
TYB160-22-3000	160	22	8	380	200	39.2	3000	70.04	95.9	73	B

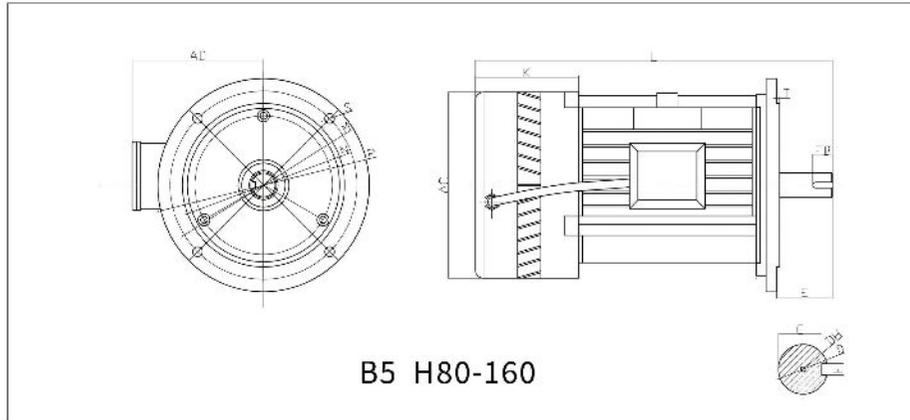
Installation Method B3



B3 Installation Size

Motor Model	Frame Size	A	B	BB	C	D	DH	E	EB	F	G	H	J	AB	AC	AD	K	L	Weight(KG)
TYB80-0.75-3000	80	125	80	128	50	19	M6*15	40	30	6	15.5	80	10	160	155	130	140	335	10.3
TYB80-0.75-1500	80	125	80	128	50	19	M6*15	40	30	6	15.5	80	10	160	155	130	140	335	12.6
TYB80-1.1-3000	80	125	80	128	50	19	M6*15	40	30	6	15.5	80	10	160	155	130	140	335	11.4
TYB80-1.1-1500	80	125	80	128	50	19	M6*15	40	30	6	15.5	80	10	160	155	130	140	335	13.7
TYB90-1.5-3000	90	140	80	140	71	24	M8*20	80	45	8	20	90	10	175	175	140	140	390	12.5
TYB90-1.5-1500	90	140	80	140	71	24	M8*20	80	45	8	20	90	10	175	175	140	140	390	13.6
TYB90-2.2-3000	90	140	80	140	71	24	M8*20	80	45	8	20	90	10	175	175	140	140	390	16.7
TYB90-2.2-1500	90	140	80	140	71	24	M8*20	80	45	8	20	90	10	175	175	140	140	390	21.3
TYB112-3-3000	112	190	90	154	85	28	M8*20	90	45	8	24	112	12	225	210	180	200	485	23.8
TYB112-3-1500	112	190	90	154	85	28	M8*20	90	45	8	24	112	12	225	210	180	200	485	28.5
TYB112-4-3000	112	190	90	154	85	28	M8*20	90	45	8	24	112	12	225	210	180	200	485	25.7
TYB112-4-1500	112	190	90	154	85	28	M8*20	90	45	8	24	112	12	225	210	180	200	485	32.3
TYB132-5.5-3000	132	216	90	170	104	38	M8*20	98	60	10	33	132	12	260	255	200	240	563	36.7
TYB132-5.5-1500	132	216	90	170	104	38	M8*20	98	60	10	33	132	12	260	255	200	240	563	42.1
TYB132-7.5-3000	132	216	90	170	104	38	M8*20	98	60	10	33	132	12	260	255	200	240	563	39.4
TYB132-7.5-1500	132	216	90	170	104	38	M8*20	98	60	10	33	132	12	260	255	200	240	563	47.5
TYB160-11-3000	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	280	683	57.1
TYB160-11-1500	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	280	683	67.3
TYB160-15-3000	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	280	683	62.2
TYB160-15-1500	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	280	683	81.8
TYB160-18.5-3000	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	280	683	65.3
TYB160-18.5-1500	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	280	683	86.3
TYB160-22-3000	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	280	683	67.3

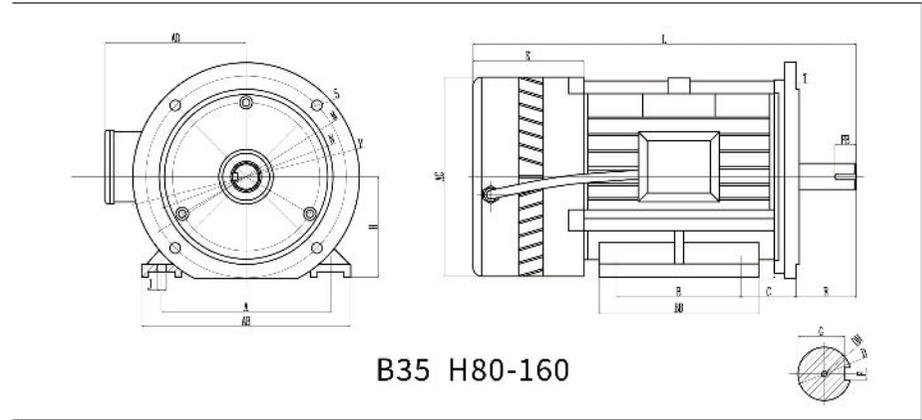
Installation Method B5



B5 Installation Size

Motor Model	Frame Size	D	DH	E	FB	F	G	AC	AD	K	L	M	N	P	S	T	Weight (KG)
TYB80-0.75-3000	80	19	M6*15	40	30	6	15.5	155	130	140	310	165	130	200	12	3.5	8.3
TYB80-0.75-1500	80	19	M6*15	40	30	6	15.5	155	130	140	310	165	130	200	12	3.5	10.6
TYB80-1.1-3000	80	19	M6*15	40	30	6	15.5	155	130	140	310	165	130	200	12	3.5	9.4
TYB80-1.1-1500	80	19	M6*15	40	30	6	15.5	155	130	140	310	165	130	200	12	3.5	11.7
TYB90-1.5-3000	90	24	M8*20	55	45	8	20	175	140	140	330	165	130	200	12	3.5	10.5
TYB90-1.5-1500	90	24	M8*20	55	45	8	20	175	140	140	330	165	130	200	12	3.5	10.6
TYB90-2.2-3000	90	24	M8*20	55	45	8	20	175	140	140	330	165	130	200	12	3.5	14.7
TYB90-2.2-1500	90	24	M8*20	55	45	8	20	175	140	140	330	165	130	200	12	3.5	19.3
TYB112-3-3000	112	28	M8*20	65	45	8	24	210	180	200	440	215	180	250	14.5	4	21.3
TYB112-3-1500	112	28	M8*20	65	45	8	24	210	180	200	440	215	180	250	14.5	4	26
TYB112-4-3000	112	28	M8*20	65	45	8	24	210	180	200	440	215	180	250	14.5	4	23.4
TYB112-4-1500	112	28	M8*20	65	45	8	24	210	180	200	520	215	180	250	14.5	4	30
TYB132-5.5-3000	132	38	M8*20	80	60	10	33	255	200	240	520	265	230	300	14.5	4	34.4
TYB132-5.5-1500	132	38	M8*20	80	60	10	33	255	200	240	520	265	230	300	14.5	4	39.5
TYB132-7.5-3000	132	38	M8*20	80	60	10	33	255	200	240	520	265	230	300	14.5	4	36.8
TYB132-7.5-1500	132	38	M8*20	80	60	10	33	255	200	240	520	265	230	300	14.5	4	45.9
TYB160-11-3000	160	42	M12*28	110	80	12	37	310	255	280	675	300	250	350	18.5	5	53.1
TYB160-11-1500	160	42	M12*28	110	80	12	37	310	255	280	675	300	250	350	18.5	5	62.3
TYB160-15-3000	160	42	M12*28	110	80	12	37	310	255	280	675	300	250	350	18.5	5	57.2
TYB160-15-1500	160	42	M12*28	110	80	12	37	310	255	280	675	300	250	350	18.5	5	76.8
TYB160-18.5-3000	160	42	M12*28	110	80	12	37	310	255	280	675	300	250	350	18.5	5	60.3
TYB160-18.5-1500	160	42	M12*28	110	80	12	37	310	255	280	675	300	250	350	18.5	5	91.3
TYB160-22-3000	160	42	M12*28	110	80	12	37	310	255	280	675	300	250	350	18.5	5	62.3

Installation Method B35



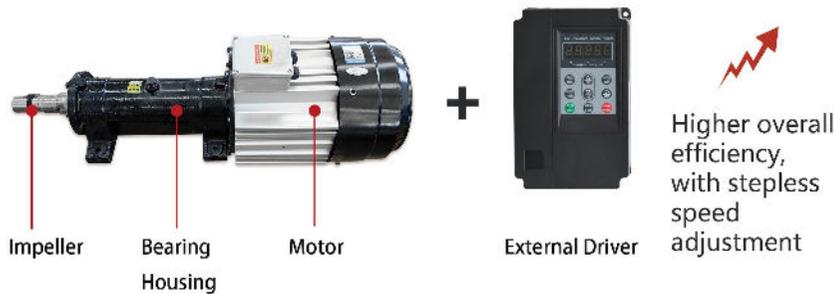
B35 Installation Size

Motor Model	Frame Size	A	B	BB	C	D	DH	E	EB	F	G	H	J	AB	AC	AD	K	L	M	N	P	S	T	Weight (KG)
TYB80-0.75-3000	80	125	80	128	50	19	M6*15	40	30	6	15.5	80	10	160	155	130	140	335	165	130	200	12	3.5	12.3
TYB80-0.75-1500	80	125	80	128	50	19	M6*15	40	30	6	15.5	80	10	160	155	130	140	335	165	130	200	12	3.5	14.6
TYB80-1.1-3000	80	125	80	128	50	19	M6*15	40	30	6	15.5	80	10	160	155	130	140	335	165	130	200	12	3.5	13.4
TYB80-1.1-1500	80	125	80	128	50	19	M6*15	40	30	6	15.5	80	10	160	155	130	140	335	165	130	200	12	3.5	15.7
TYB90-1.5-3000	90	140	80	140	56	24	M8*20	55	45	8	20	90	10	175	175	140	140	365	165	130	200	12	3.5	15
TYB90-1.5-1500	90	140	80	140	56	24	M8*20	55	45	8	20	90	10	175	175	140	140	365	165	130	200	12	3.5	16.1
TYB90-2.2-3000	90	140	80	140	56	24	M8*20	55	45	8	20	90	10	175	175	140	140	365	165	130	200	12	3.5	19.2
TYB90-2.2-1500	90	140	80	140	56	24	M8*20	55	45	8	20	90	10	175	175	140	140	365	165	130	200	12	3.5	23.8
TYB112-3-3000	112	190	90	154	70	28	M8*20	65	45	8	24	112	12	225	210	180	200	460	215	180	250	14.5	4	26.8
TYB112-3-1500	112	190	90	154	70	28	M8*20	65	45	8	24	112	12	225	210	180	200	460	215	180	250	14.5	4	31.5
TYB112-4-3000	112	190	90	154	70	28	M8*20	65	45	8	24	112	12	225	210	180	200	460	215	180	250	14.5	4	28.7
TYB112-4-1500	112	190	90	154	70	28	M8*20	65	45	8	24	112	12	225	210	180	200	460	215	180	250	14.5	4	35.3
TYB132-5.5-3000	132	216	90	170	89	38	M8*20	80	60	10	33	132	12	260	255	200	240	545	265	230	300	14.5	4	40.7
TYB132-5.5-1500	132	216	90	170	89	38	M8*20	80	60	10	33	132	12	260	255	200	240	545	265	230	300	14.5	4	46.1
TYB132-7.5-3000	132	216	90	170	89	38	M8*20	80	60	10	33	132	12	260	255	200	240	545	265	230	300	14.5	4	53.4
TYB132-7.5-1500	132	216	90	170	89	38	M8*20	80	60	10	33	132	12	260	255	200	240	545	265	230	300	14.5	4	51.5
TYB160-11-3000	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	280	705	300	250	350	18.5	5	63.1
TYB160-11-1500	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	280	705	300	250	350	18.5	5	73.3
TYB160-15-3000	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	280	705	300	250	350	18.5	5	68.2
TYB160-15-1500	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	280	705	300	250	350	18.5	5	87.8
TYB160-18.5-3000	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	280	705	300	250	350	18.5	5	71.3
TYB160-18.5-1500	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	280	705	300	250	350	18.5	5	102.3
TYB160-22-3000	160	254	178	238	108	42	M12*28	110	80	12	37	160	15	310	310	255	280	705	300	250	350	18.5	5	73.3

Permanent Magnet Energy Saving Direct Drive Motor



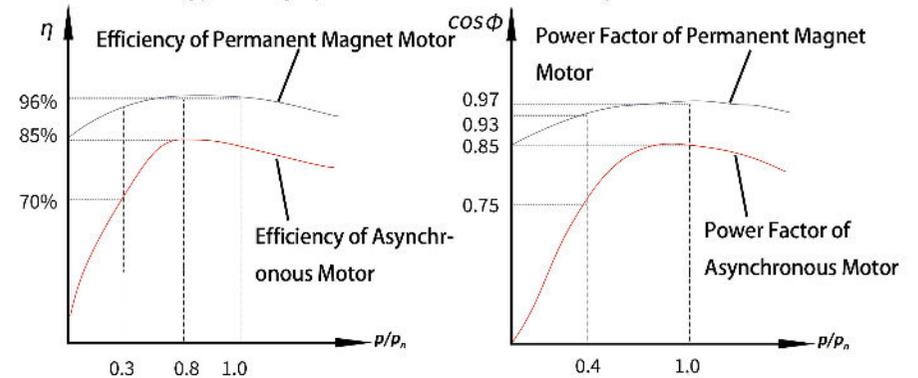
The motor is directly connected to the impeller via the bearing housing, which reduces energy loss caused by transmission and can save 3%-5% of energy. Additionally, an external driver can limit the power and frequency of the permanent magnet motor, enabling the fan to always operate within the high-efficiency range under different load conditions. This solves the problem of "using a large horse to pull a small cart" with traditional ordinary motors.



Main Features

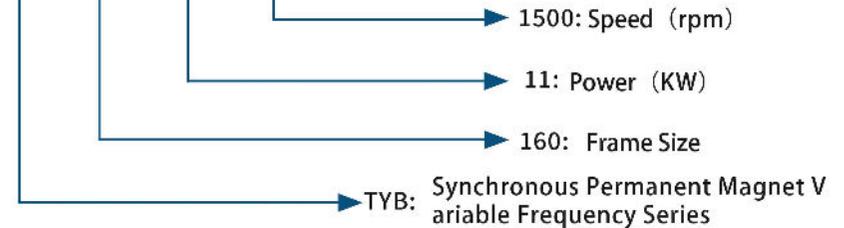
- **High Efficiency:** the efficiency of the permanent magnet Energy Saving motor can easily reach the first-level energy efficiency standard.
- **Low Transmission Loss:** the direct connection of motor - bearing housing - impeller reduces energy loss caused by transmission.
- **More Intelligent:** through intelligent settings, it can completely solve the problem of "using a large horse to pull a small cart" for the fan.
- **High Cost Performance:** it has a small volume, and its cost is similar to that of traditional motors, but it has more functions.

Efficiency and Power Factor Curves of Permanent Magnet Energy Saving Synchronous Motor and Asynchronous Motor



Product Model Example

TYB 160 11 1500



Permanent Magnet Energy Saving Direct Drive Motor Parameters

Motor Model	Frame Size	Power (KW)	Number of Poles (P)	Voltage (V)	Frequency (HZ)	Speed (rpm)	Current (A)	Efficiency (%)	Noise dB(A)	Duty Type	Insulation Class	Protection Class
TYB160-11-1500	160	11	8	380	100	1500	20	93.6	65	S1	B	IP55
TYB160-15-1500	160	15	8	380	100	1500	28	94	65	S1	B	IP55
TYB160-18.5-1500	160	18.5	8	380	100	1500	34	94.3	65	S1	B	IP55
TYB200-22-1500	200	22	8	380	100	1500	41	94.7	66	S1	B	IP55
TYB200-30-1500	200	30	8	380	100	1500	57	95	66	S1	B	IP55
TYB200-37-1500	200	37	8	380	100	1500	70	95.3	66	S1	B	IP55
TYB225-45-1500	225	45	8	380	100	1500	86	95.6	67	S1	B	IP55
TYB225-55-1500	225	55	8	380	100	1500	104	95.8	67	S1	B	IP55

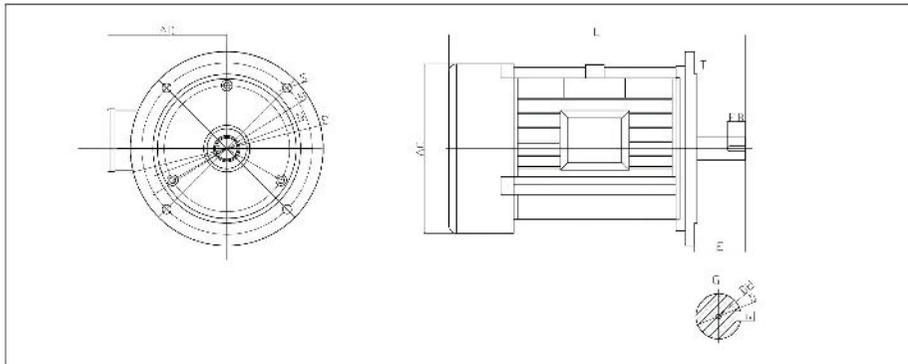
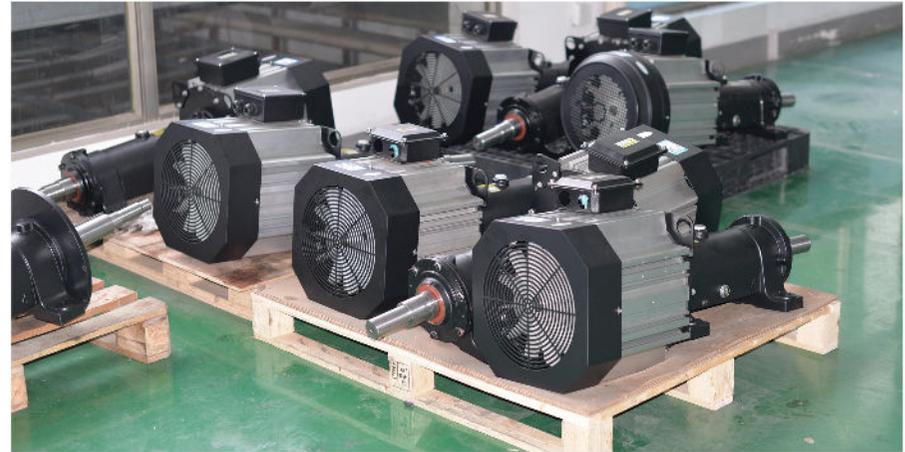


Permanent Magnet Energy Saving Fan



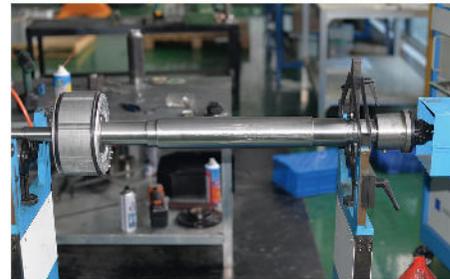
Permanent Magnet Energy Saving Variable Frequency Motor

Product production



Installation Size

Motor Model	Mounting Dimensions											Mounting Dimensions					
	A	B	C	D	E	F	G	H	P	R	S	T	AB	M	N	K	L
TYB160-11-1500	220	296	74.5	48	157	14	42.5	95	30	70	15	57	270	145	206	280	907
TYB160-15-1500	220	296	74.5	48	157	14	42.5	95	30	70	15	57	270	145	206	280	937
TYB160-18.5-1500	220	296	74.5	48	157	14	42.5	95	30	70	15	57	270	145	206	280	987
TYB200-22-1500	265	386	100	48	167	16	42.5	115	35	80	10	67	320	185	240	360	1080
TYB200-30-1500	265	386	100	48	167	16	42.5	115	35	80	10	67	320	185	240	360	1110
TYB200-37-1500	265	386	100	55	167	16	49.9	115	35	80	10	67	320	185	240	360	1160
TYB225-45-1500	295	409	120	65	190	18	53	130	50	120	10	80	345	210	295	410	1270
TYB225-55-1500	295	409	120	65	190	18	53	130	50	120	10	80	345	210	295	410	1270



External Variable Frequency Drive

It adjusts the fan speed in real time according to changes in duct static pressure to achieve energy-saving effects and reduce energy consumption. It adopts a self-developed vector frequency converter, which not only supports sensorless vector control and V/F control, but also enables V/F separation control. It allows setting of forward and reverse jog control, incorporates multiple operating modes such as multi-speed control, and supports the Modbus-RTU communication protocol via the RS-485 communication method. Equipped with fault protection, short-circuit protection, and phase-failure protection functions, it offers high cost-effectiveness. It is an energy-saving automated static pressure control system.

Frequency Converter Parameter Table

Integrated Frequency Converter							Remarks
Model	Power	Input Voltage	Output Frequency	Output current	Applicable motor model	Controller height	
	(KW)		(HZ)	(A)			
EZ580E0.75GB-80	0.75	AC380,50/60Hz	0-400	2.1	0.75	140	
EZ580E1.1GB-80	1.1	AC380,50/60Hz	0-400	3.1	1.1	140	
EZ580E1.5GB-80	1.5	AC380,50/60Hz	0-400	3.8	1.5	140	
EZ580E2.2GB-90	2.2	AC380,50/60Hz	0-400	5.1	2.2	140	
EZ580E3.7GB-112	3.7	AC380,50/60Hz	0-400	7.2/9	3/4	200	3KW/4KW
EZ680E5.5GB-80	5.5	AC380,50/60Hz	0-400	13	5.5	240	
EZ680E7.5GB-80	7.5	AC380,50/60Hz	0-400	17	7.5	240	
EZ680E11GB-80	11	AC380,50/60Hz	0-400	25	11	240/280	
EZ680E15GB-90	15	AC380,50/60Hz	0-400	32	15	280	
Remarks	All frequency converter models in the table are permanent magnet synchronous type, and the corresponding asynchronous frequency converter models are: "EZ580***". For example, the asynchronous frequency converter model corresponding to model EZ580E0.75GB*80 is: EZ5800.75GB-80						

Integrated inverter

The permanent magnet motor has a built-in driver, applicable for 0.75KW~15KW. All models are available with square casings and round casings as options.



External Variable Frequency Drive

The EZ700 series frequency converter is a general-purpose frequency converter that can easily drive and control permanent magnet synchronous motors. It is equipped with a communication bus function, featuring powerful functions and stable performance.

- Power limitation, speed limitation
- Can achieve arbitrary speed
- Enhances the efficiency of fans and pumps
- Advanced vector control, high energy efficiency
- Suitable for the vast majority of motors available on the market
- Equipped with thermal management functionality
- Simple operation, easy to learn and master



Inverter parameter table

IEZ700 Economic General-Purpose Frequency Converter						
Model	Power	Output current	Output Frequency	Output Frequency	Applicable motor model	Dimensions:
	(KW)	(A)	(HZ)	(HZ)		
EZ700E-T1.5PB	1.5	3.8	50/60	0.0-500	1.5	130*190*110
EZ700E-T2.2PB	2.2	5.1	50/60	0.0-500	2.2	130*190*110
EZ700E-T4PB	4	9	50/60	0.0-500	4	130*190*110
EZ700E-T5.5PB	5.5	9	50/60	0.0-500	5.5	130*190*110
EZ700E-T7.5PB	7.5	12	50/60	0.0-500	7.5	130*190*110
Remarks	All frequency converter models in the table are of the permanent magnet synchronous type, and the corresponding asynchronous frequency converter models follow the format "EZ700***". For example, the asynchronous frequency converter model corresponding to the permanent magnet synchronous type model EZ700E-T1.5PB is EZ700-T1.5PB.					

External Variable Frequency Drive

The EZ690 series not only adopts internationally leading vector control technology and is compatible with both asynchronous and synchronous motor control, but also realizes a compact design through rational layout of components under the premise of high performance and high reliability. It enhances user-friendliness and industry-specific professional design, is equipped with a wealth of expansion interfaces and brand-new expansion accessories, and thus achieves the characteristics of high performance, high reliability, high power density and high applicability.



- High-performance Vector Universal Platform, New Motor Control Algorithm
- Integration of Synchronous and Asynchronous Drives, Comprehensive Coverage of Open-Loop and Closed-Loop Control
- Comprehensive Thermal Simulation Design Ensures the Rationality of Hardware Layout
- New Air Duct Design, Full-Series DC Fan Cooling, Safe and Reliable
- Requirements for Software and Hardware Modular Design, Strong Expandability
- Comprehensive Expansion Interfaces, Abundant Accessory Options, Covering Various Application Scenarios
- Optimized and User-friendly Keyboard Design, with Support for New External Keyboards
- Three-Prevention Design for the Whole Machine and Three-Prevention Paint Coating on PCB Ensure Product Stability and Reliability
- Full-Series Integrated IGBT Module Design Ensures Stable Quality
- Built-in Industry Application Macros, Supporting One-Click Configuration of Industry Parameters
- Personalized Pressure and Frequency Dormancy, with Direct Target Value Setting via Up/Down Buttons
- User Password for Operation Timing; Password Required to Unlock When the Timer Expires
- Full-Series Intelligent Input Phase-Loss Protection Function

General specifications of inverter

EZ690 Universal Inverter		
Power Range	220V 50/60HZ	0.75~2.2KW
	220V 50/60HZ	0.75~55KW
	380V 50/60HZ	0.75~110KW
Input	Allowable Voltage Fluctuation	Voltage : 320V~440V; Voltage Unbalance Rate < 3%
	Allowable Frequency Fluctuation	Frequency±5%
Output	Total Harmonic Distortion (THD)	IEC61800-2
	Output Voltage	0: Input Voltage, Error Less Than 5%
	Output Frequency Range	0-500HZ
	Overload Capacity	150%Rated Current for 1 Minute 180%Rated Current for 3 Seconds

Control method	Speed Control	Torque Control	Applicable Motors
V/F mode	√	×	Asynchronous Motor
Voltage-Frequency Separation	√	×	Torque Motor, Emergency Power Supply
Sensorless HPVC	√	√	Asynchronous,PMSM
Vector Control with PG	√	√	Asynchronous,PMSM

Control method	Speed control range	Starting torque	Applicable fan
Sensorless HPVC	1 : 100	150%	Permanent Magnet Synchronous Motor
Sensorless HPVC	1 : 100	150%	Asynchronous Motor
Vector Control with PG	1 : 1000	180%	Asynchronous,PMSM

Closed-loop Torque Response < 10ms, Speed Stability Accuracy 0.02%, Speed Ripple 0.2%

Open-loop Torque Response < 20ms, Speed Stability Accuracy 0.2% (Synchronous), 0.5% (Asynchronous)

Inverter parameter table

EZ690 general purpose inverter											
Model	Input (KW)	Input current (A)	Output current (A)	Adapted motor (KW)	Overall Dimensions(mm)			Mounting Dimension(mm)		Installation hole size	
					H	W	D	A	B		
EZ690E-T1.5PB	1.5	5.0	3.0	1.5	173	89	142	79	158	φ6	
EZ690E-T2.2PB	2.2	5.8	5.1	2.2							
EZ690E-T4PB	4	10.5	9.0	4							
EZ690E-T5.5PB	5.5	14.6	13.0	5.5	203	102	164	90	190	φ6	
EZ690E-T7.5PB	7.5	20.5	17.0	7.5							
EZ690E-T11PB	11	26.0	25.0	11							
EZ690E-T15PB	15	35.0	32.0	15	244	125	172	108	227	φ6	
EZ690E-T18.5PB	18.5	38.5	37.0	18.5							
EZ690E-T22PB	22	46.5	45.0	22							
EZ690E-T30PB	30	62.0	60.0	30	300	165	193	147	298	φ7	
EZ690E-T37PB	37	76.0	75.0	37							
EZ690E-T45PB	45	92.0	91.0	45							
EZ690E-T55PB	55	113.0	112.0	55	441	220	244	160	425	φ7	
EZ690E-T75PB	75	157.0	150.0	75							
EZ690E-T90PB	90	180.0	176.0	90							
EZ690E-T110PB	110	214.0	210.0	110	580	338	326	270	560	φ10	
EZ690E-T132PB	132	256.0	253.0	132							
EZ690E-T160PB	160	307.0	304.0	160							
EZ690E-T185PB	185	340.0	330.0	185	915	400	331	320	890	φ10	
EZ690E-T200PB	200	385.0	377.0	200							
EZ690E-T220PB	220	430.0	426.0	220							
EZ690E-T250PB	250	468.0	465.0	250	1284	390	556	A1:225 A2:185	1175	φ13	
EZ690E-T280PB	280	525.0	520.0	280							
EZ690E-T315PB	315	590.0	585.0	315							
EZ690E-T355PB	355	650.0	617.0	355	1405	400	556	A1:240 A2:200	1280	φ16	
EZ690E-T400PB	400	725.0	687.0	400							
EZ690E-T450PB	450	820.0	782.0	450							

The inverter models in the table are all permanent magnet synchronous inverters. The corresponding asynchronous inverter model is "EZ690**". For example, the asynchronous inverter model corresponding to model EZ690E-T1.5PB is EZ690-T1.5PB.

Production shooting



Products case

