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around the world



Dedicated and professional—Exploration and innovation

订货须知:

- 1、订货时应注明电动机型号、工作制、负载持续率、功率、额定电压、同步转速和绝缘等级。
例: YZR160M2-6 S3-40% 7.5KW 380V 1000r/minF级。
- 2、需要双轴伸时, 必须在订货时标明, 否则只供给单轴电动机。
- 3、本样本的技术数据仅供参考, 容有变动。

WUXI HONGTAI ELECTRICAL MACHINERY LIMITED LIABILITY COMPANY

Add: No.17, Wanshou Road, Qianzhou Industrial Park, Huishan District,
Wuxi City, Jiangsu Province
Tel: 0510-83390388 83391074
Fax: 0510-83390288
General manager's office: 0510-83392288
Fax: 0510-83395888
P.C.: 214181
<http://www.hongtaimotor.com>

YZP /YZPE Series 3-Phase Frequency Conversion and Speed Governing Asynchronous Motor for Crane and Metallurgy Purposes



WUXI HONGTAI ELECTRICAL MACHINERY LIMITED LIABILITY COMPANY

Dedicated and professional-50 years of manufacturing
experience in motor industry

HONGTAI



COMPANY INTRODUCE

Wuxi Hongtai Hoisting Electrical Machine Co., Ltd (former Wuxi Hongda Hoisting Electrical Machine Plant), established in 1958 and ownership-transformed in 1998, began specially producing electric motors for crane and metallurgical purposes earlier in China. As a member of China Heavy Machinery Industry Association and member of Shanghai Electric Machine Association, the company has been awarded Ministerial Level Advanced Enterprise of Ministry of Water Resources, Wuxi Famous Brand Product, Wuxi Famous Trademark, AAA Enterprise and Contract Compliance & Full Credit Enterprise etc. The company has the right of self-operation export and import, and is strong in technical research and development. Wuxi Hongtai Electrical Machine Technology Research & Development Center, which is a city-level R & D Center, is the one who formulated national standards such as GB/T21972.1-2008 YZP Lifting & Metallurgical Inverter Motors, GB/T21974-2008 for YZRW Eddy Current Brake Motor and GB/T 21975-2008 Test Methods of Lifting & Metallurgical Inverter Motors.



We mainly produce YZR, YZ, YZRE, YZE and JZR2 series motors for crane and metallurgical purposes, YZP, YZB, YZPE and YZBE series motors and frequency conversion and speed governing and electromagnetic brake motors for crane and metallurgical purposes, YZTD、YZW、YZRDW、YTP、YDEJ and YZZ motors specially for construction machinery, YG and YGP series motors and frequency conversion and speed governing motors for rollers, YP, YP2, YPE and YP2E

series frequency conversion and speed governing and electromagnetic brake motors, YZRW and WZ series eddy current brake motors and eddy current brake, YR、JR wound-rotor motors for mining. We are also specialized in the manufacture of ZDY series taper-rotor motors, YZU series vibration source motors, YTS series dewatering machine motors, Y series 3-phase asynchronous motors and KZ, F1, F2, D1, D2, Z4 direct current motors, totally 35 series and 450 kinds, with annual motor production capacity being 1.08 million kilowatts

We moved to the new factory area in 2006, and have invested as much as 120 000 000 yuan for technological transformation. The old and new factory areas occupy a floor area of 65 366 square meters, and a building area of 48 586 square meters. We work with great care to produce quality products, and provide excellent hundred percent service. We enjoy a good reputation and have a certain market share in industries such as port, lifting, metallurgy and construction etc in China, and our products have partially been exported to USA, Japan, Russia, Korea and Southeast Asia etc.

Wuxi Hongtai will provide you all with advanced technology, strict management, quality products and perfect service.





■ JW31-400T double column presses



■ CNC boring and milling machine



■ NC flat head milling and center hole machine



▶ Combined vacuum (pressure) dipping drying machine ▶ CNC lathe ▶ Metal processing equipment



■ YYQ1600 hard dynamic balancing machine



■ MT-D (I) motor factory-integrated test equipment



▶ Assembly painting line



▶ 4M vertical lathe



■ Motor type test platform (ABB2300KW inverter, inverter)



1 General Description

YZP/YZPE Series 3-Phase Frequency Conversion and Speed Governing Asynchronous Motor for Crane and Metallurgy Purposes (hereinafter called the "motor"), combines the functions of crane- and metallurgical-purpose 3-phase asynchronous motor and strong points of the variable frequency speed regulating technology, featuring large overload capacity and high mechanical strength, wide speed regulating range and steady operation. The basic technical data of the motor accords with International standard IEC34-1 and China national standard GB755. All its performance parameters correspond to those used abroad in 1990's. The motor can be used in various types of metallurgical machines and cranes and other similar equipments, and can also be used where it is often required to make hoisting, braking and reversing.

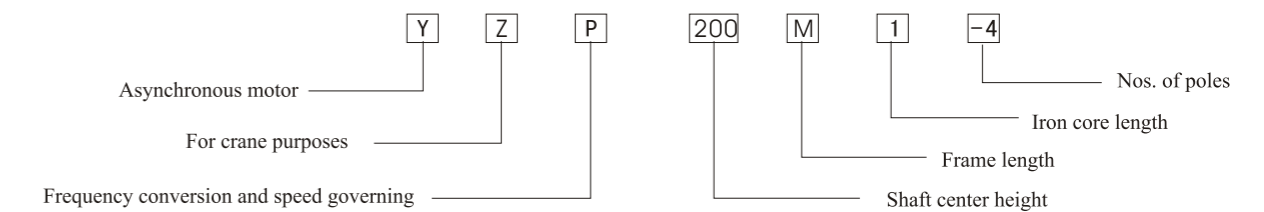
1. The motor can run normally under following conditions.

- 1.1 Ambient temp. not exceeding 40°C (for general purpose) or 60°C (for metallurgical purpose).
- 1.2 Relative humidity ≤ 90%
- 1.3 Elevation not exceeding 1000m
- 1.4 Frequent starting, braking (electric or mechanical) and reversing

2. For the motor, rated voltage is 380V, rated frequency is 50Hz, and continuous speed regulating can be made within 5-100Hz. YZB series motor is without forced air cooling, while YZBF series motor is with forced air cooling.

3. Basic duty is S3-40%

2 Designation Type



3 Use conditions and its performance

- Adapt to the higher carrier frequency of the inverter output voltage.
- Rated voltage is 380V, rated frequency is 50Hz.
- Insulation class f, protection class IP54 and Ip55.
- Speed range 3Hz-100Hz;3-50Hz for constant torque operation;50-100Hz for constant power operation.
- Is not more than 1000m above sea level, relative humidity not more than 90%.
- Cooling methods, 112-132 frame size for the fan-cooled (IC411) 160-335 frame for his fan-cooled (Ic416).
- Frame size 180 and below for the y-connection, and more than 200 frame size for the connection.
- At rated voltage and frequency, can withstand twice times the rated torque overload during the 1min.

Technical Data Table

TYPE	RATED POWER (KW)	RATED VOLTAGE (V)	RATED CURRENT (A)	RATED TORQUE (N.M)	SPEED (r/min)	LOCK TORQUE RATED TORQUE	MAX TORQUE RATED TORQUE	MONENT OF INERTIA (Kg.m ²)	WEIGHT (kg)
YZP112M-4	4.0	380	9.5	26	1415	1.5-2.0	3.0	0.0175	55
YZP132M ₁ -4	5.5		12.2	36	1450		3.1	0.048	78
YZP132M ₂ -4	7.5		16.9	48	1450		3.2	0.056	92
YZP160M-4	11		23	71	1465		3.4	0.11	115
YZP160L-4	15		30	96	1465		3.5	0.125	130
YZP180M-4	22		43	141	1460		3.3	0.35	205
YZP200L ₁ -4	30		57	192	1470		3.5	0.263	280
YZP200L ₂ -4	37		70	236	1470		3.2	0.273	300
YZP225M-4	45		84	288	1475		3.3	0.469	325
YZP250M-4	55		102	352	1475		3.0	0.66	427
YZP280S ₁ -4	75		136	478	1475		3.0	1.12	565
YZP280S ₂ -4	90		165	575	1475		3.0	1.15	572
YZP280M-4	110		202	703	1480		3.3	1.46	677
YZP315S-4	132		243	845	1485		3.2	3.11	867
YZP315M ₁ -4	160		288	1020	1485		3.3	3.62	1023
YZP315M ₂ -4	200		360	1282	1485		3.1	4.13	1092
YZP315M ₃ -4	220		396	1409	1485		3.0	4.94	1161
YZP355M-4	250		440	1593	1480		3.1	5.75	1720
YZP355L-4	315		550	2008	1480		3.1	6.79	1870
YZP400L ₁ -4	355		620	2273	1491		3.6	11.93	2500
YZP400L ₂ -4	400	710	2562	1491	3.6	13.1	2700		
YZP400L ₃ -4	450	800	2882	1491	3.6	13.1	2700		
YZP450L ₁ -4	500	880	3200	1492	3.6	20	3300		
YZP450L ₂ -4	560	980	3584	1492	3.6	22	3600		
YZP450L ₃ -4	630	1126	4032	1492	3.6	25	3700		

Technical Data Table

TYPE	RATED POWER (KW)	RATED VOLTAGE (V)	RATED CURRENT (A)	RATED TORQUE (N.M)	SPEED (r/min)	LOCK TORQUE RATED TORQUE	MAX TORQUE RATED TORQUE	MONENT OF INERTIA (Kg.m ²)	WEIGHT (kg)
YZP112M-6	2.2	380	6.0	21.5	930	1.5-2.0	3.0	0.020	55
YZP132M ₁ -6	3		7.5	29	960		3.1	0.0525	80
YZP132M ₂ -6	4		9.8	38.5	960		3.1	0.0562	92
YZP132M ₃ -6	5.5		12.7	53	960		3.1	0.0575	97
YZP160M-6	7.5		18	72	970		3.0	0.1325	132
YZP160L-6	11		26	106	970		3.1	0.1775	152
YZP180L-6	15		34	145	975		3.2	0.31	220
YZP200L ₁ -6	22		45	211	980		3.3	0.315	250
YZP200L ₂ -6	30		60	290	980		3.0	0.361	290
YZP225M-6	37		73	355	982		3.0	0.547	318
YZP250M-6	45		85	432	982		2.9	0.834	430
YZP280S-6	55		104	529	985		3.0	1.39	550
YZP280M-6	75		143	720	985		3.1	1.65	620
YZP315S-6	90		170	862	985		3.1	4.11	870
YZP315M ₁ -6	110		206	1055	985		3.2	4.78	1025
YZP315M ₂ -6	132		246	1271	985		3.0	5.45	1098
YZP315M ₃ -6	160		297	1540	985		3.0	6.12	1165
YZP355M ₁ -6	200		369	1913	980		3.5	8.02	1690
YZP355M ₂ -6	220		403	2103	980		3.5	9.63	1730
YZP355L-6	250		450	2390	980		3.5	10.54	1820
YZP400L ₁ -6	315	590	3026	994	3.6	13.9	2800		
YZP400L ₂ -6	355	640	3410	994	3.6	16.2	3000		
YZP450L ₁ -6	400	710	3839	995	3.6	37.8	3400		
YZP450L ₂ -6	450	810	4319	995	3.6	44	3800		
YZP450L ₃ -6	500	920	4798	995	3.6	45	3700		

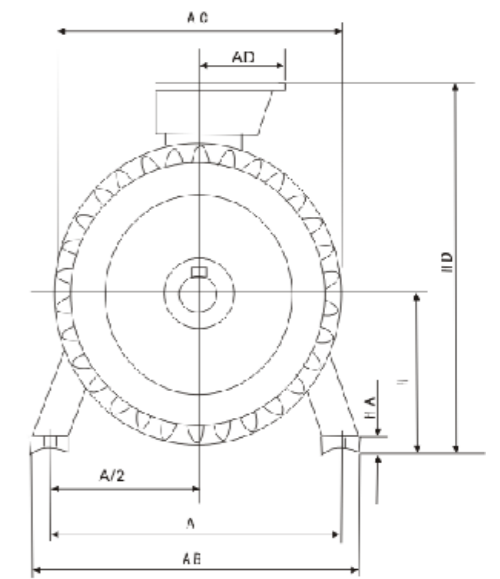
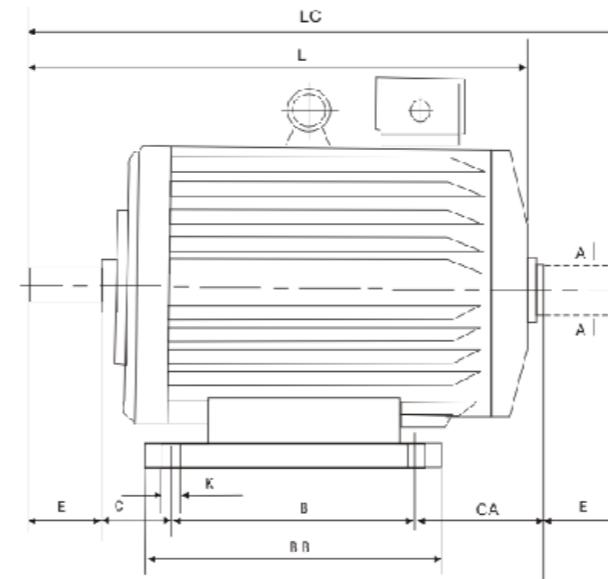
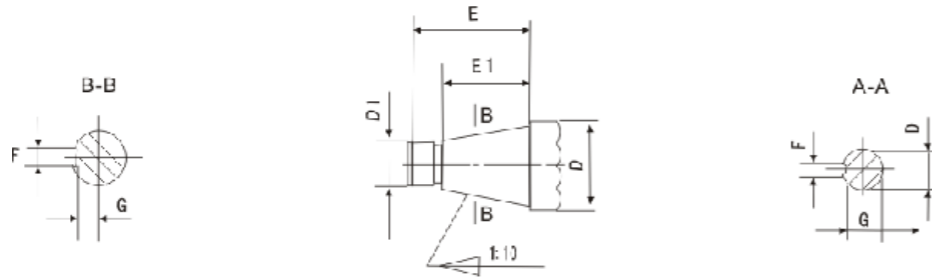
Technical Data Table

TYPE	RATED POWER (KW)	RATED VOLTAGE (V)	RATED CURRENT (A)	RATED TORQUE (N.M)	SPEED (r/min)	LOCK TORQUE RATED TORQUE	MAX TORQUE RATED TORQUE	MONENT OF INERTIA (Kg.m ²)	WEIGHT (kg)
YZP160L-8	7.5	380	19	97	730	1.5-2.0	2.8	0.1775	152
YZP180L-8	11		26	141	735		3.1	0.325	220
YZP200L-8	15		35	192	735		3.1	0.339	260
YZP225M ₁ -8	22		48	282	735		2.9	0.491	270
YZP225M ₂ -8	30		68	386	735		2.9	0.547	292
YZP250M-8	37		76	473	730		2.8	0.834	405
YZP280S-8	45		93	575	735		3.0	1.39	520
YZP280M-8	55		121	703	735		2.9	1.65	592
YZP315S-8	75		154	960	735		3.1	4.79	1000
YZP315M ₁ -8	90		182	1152	735		3.1	5.58	1100
YZP315M ₂ -8	110		220	1416	730		3.0	6.37	1100
YZP315M ₃ -8	132		269	1692	735		2.9	7.23	1230
YZP355M ₁ -8	160		320	2038	745		2.9	9.4	1690
YZP355M ₂ -8	200		393	2548	745		2.9	11.38	1790
YZP355L ₁ -8	220		425	2803	745		2.9	13.8	1990
YZP355L ₂ -8	250		475	3205	745		2.9	14.8	2100
YZP400L ₁ -8	280		540	3594	744		3.6	22.9	2800
YZP400L ₂ -8	315		630	4043	744		3.6	26.8	3000
YZP450L ₁ -8	355		650	4544	746		3.6	46.5	3400
YZP450L ₂ -8	400		750	5120	746		3.6	54.3	3800
YZP450L ₃ -8	450		830	5760	746		3.6	55	3700
YZP315S-10	55		124	881	585		3.3	4.79	970
YZP315M ₁ -10	75		168	1203	585		3.2	6.37	1130
YZP315M ₂ -10	90		198	1445	585		3.2	7.15	1210
YZP315M ₃ -10	110		230	1769	585		3.0	7.25	1230
YZP355M ₁ -10	132		277	2103	585		2.7	10.9	1680
YZP355M ₂ -10	160		333	2548	585		2.7	13.7	1730
YZP355L-10	200		418	3185	585		2.7	15.8	1990
YZP400L ₁ -10	220		440	3537	594		3.6	22.9	2800
YZP400L ₂ -10	250		520	4019	594		3.6	26.8	3000
YZP450L ₁ -10	315	650	5038	597	3.6	46.5	3400		
YZP450L ₂ -10	355	720	5678	597	3.6	54.3	3800		
YZP450L ₃ -10	400	780	6398	597	3.6	55	4000		

Technical Data Table

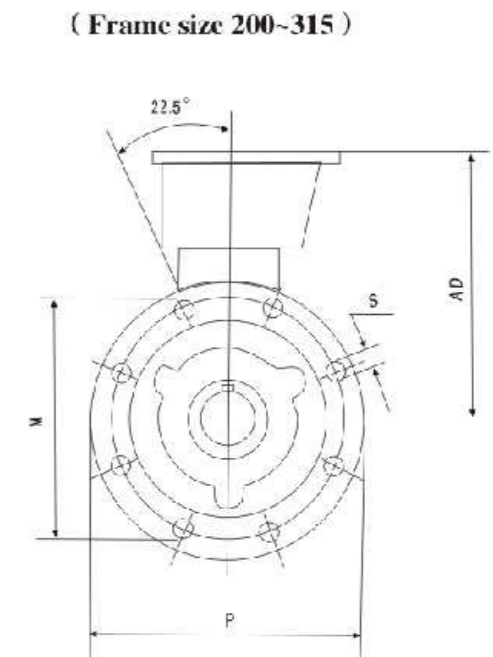
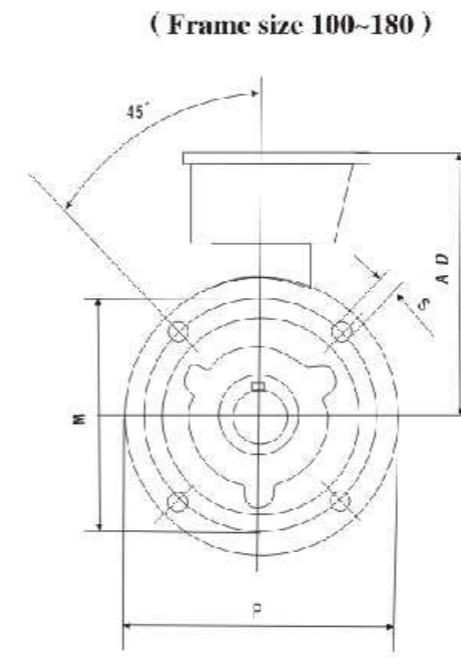
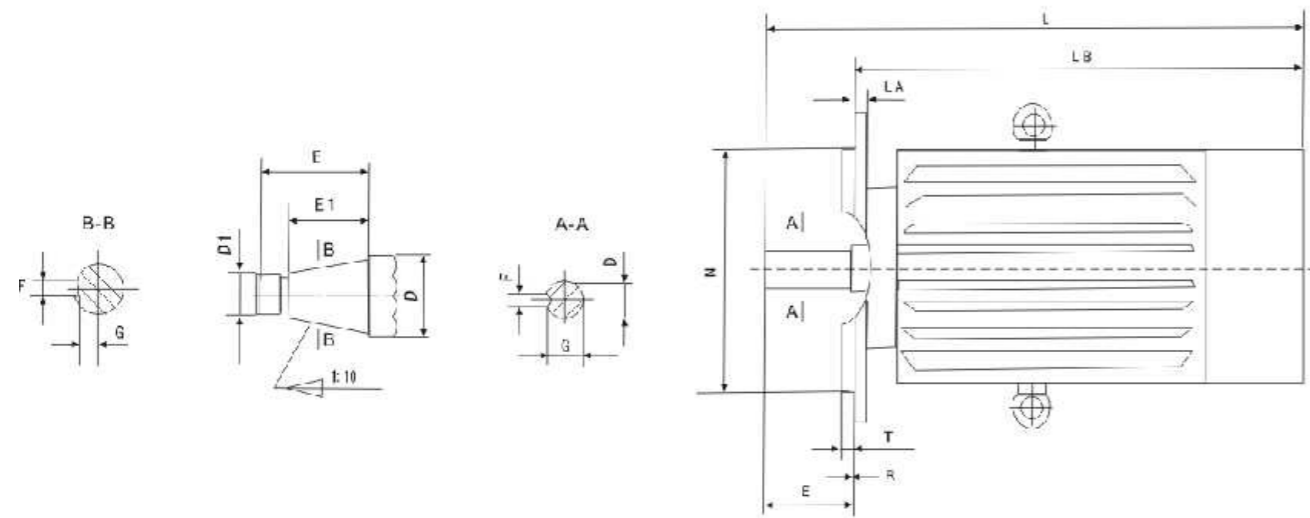
TYPE	RATED POWER (KW)	RATED VOLTAGE (V)	RATED CURRENT (A)	RATED TORQUE (N.M)	SPEED (r/min)	LOCK TORQUE RATED TORQUE	MAX TORQUE RATED TORQUE	MONENT OF INERTIA (Kg.m ²)	WEIGHT (kg)
YZP500L ₁ -4	710	660	710	4544	1492	1.5-2.0	3.6	38.8	4000
YZP500L ₂ -4	800		800	5120	1492			46.8	4500
YZP500L ₃ -4	900		900	5760	1492			54.3	5000
YZP500L ₄ -4	1000		1000	6400	1492			54.3	5000
YZP560L ₁ -4	1120		1080	7159	1494			115	6800
YZP560L ₂ -4	1250		1200	7990	1494			115	6800
YZP560L ₃ -4	1400		1350	8949	1494			145.7	8000
YZP560L ₄ -4	1600		1550	10227	1494			145.7	8000
YZP500L ₁ -6	560		560	5374	995			38.8	4000
YZP500L ₂ -6	630		630	6046	995			46.5	4500
YZP500L ₃ -6	710		710	6814	995			54.3	5000
YZP500L ₄ -6	800		800	7678	995			54.3	5000
YZP560L ₁ -6	900		900	8629	996			115	6800
YZP560L ₂ -6	1000		1000	9588	996			115	6800
YZP560L ₃ -6	1120		1100	10738	996			145.7	8000
YZP560L ₄ -6	1250		1230	11985	996			145.7	8000
YZP500L ₁ -8	500		530	6400	746			57.1	4000
YZP500L ₂ -8	560		590	7168	746			68.5	4500
YZP500L ₃ -8	630		680	8065	746			80	5000
YZP500L ₄ -8	710		750	9089	746			80	5000
YZP560L ₁ -8	800		860	10227	747			115	6800
YZP560L ₂ -8	900		1000	11506	747			115	6800
YZP560L ₃ -8	1000		1100	12784	747			145.7	8000
YZP560L ₄ -8	1120		1200	14318	747			145.7	8000
YZP500L ₁ -10	450		510	7198	597			68.5	4500
YZP500L ₂ -10	500		580	7998	597			68.5	4500
YZP500L ₃ -10	560		650	8958	597			80	5000
YZP500L ₄ -10	630		710	10077	597			80	5000
YZP560L ₁ -10	710		780	11338	598			115	6800
YZP560L ₂ -10	800		900	12775	598			115	6800
YZP560L ₃ -10	900	1000	14372	598	145.7	8000			
YZP560L ₄ -10	1000	1120	15969	598	145.7	8000			

Horizontally installed motors, IM1001, IM1002, IM1003, Im1004(self cooling for frame size 100~132, built-in fan cooling for 160 ~ 400)



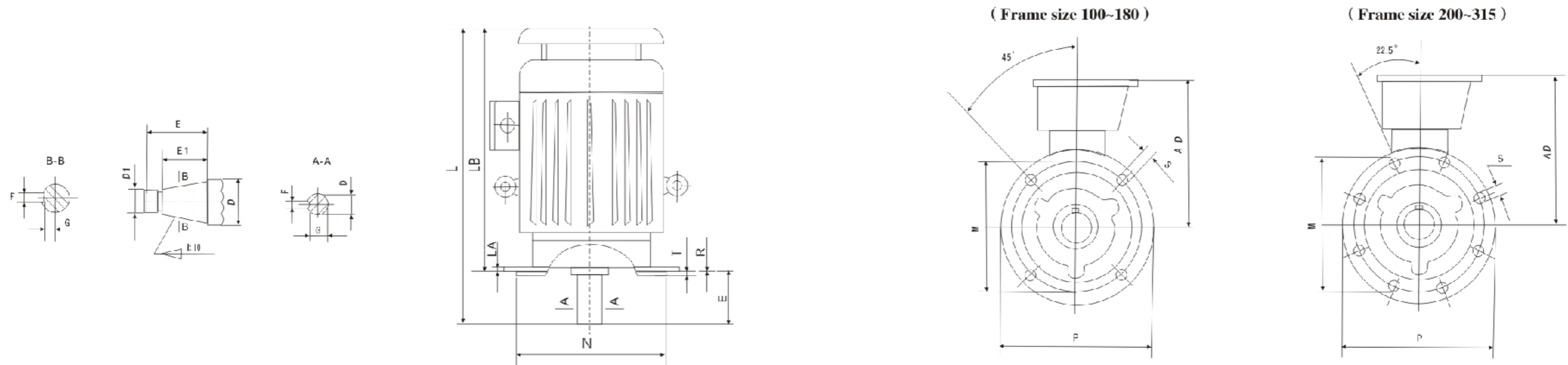
Frame size	Mounting					Dimension &Tolerance												Outline size													
	A	A/2	B	C		CA	D		D1	E		E ₁		F		G		H		K			Bolt Diameter	AB	AC	AD	BB	HA	HD	L	LC
				Basic Dimensions	Speed Deviation		Basic Dimensions	Speed Deviation		Basic Dimensions	Speed Deviation	Basic Dimensions	Speed Deviation	Basic Dimensions	Speed Deviation	Basic Dimensions	Speed Deviation	Basic Dimensions	Speed Deviation	Basic Dimensions	Speed Deviation	Basic Dimensions									
100L	160	80	140	63	—	28	+0.009 -0.004	—	60	—	—	8	—	24	—	100	—	12	+0.43 0	∅1.0 [Ⓜ]	M10	206	215	135	200	12	250	330	395		
112M	190	95	178	70	± 2.0	32	—	—	80	± 0.37	—	10	0 -0.036	27	—	112	—	15	—	—	—	250	245	160	235	15	330	420	505		
132M	216	108	210	89	± 3.0	38	+0.018 +0.002	—	80	± 0.43	—	14	—	33	0 -0.043	132	0 -0.5	19	+0.52 0	∅1.5 [Ⓜ]	M12	275	285	—	260	17	360	495	577		
160M	254	127	254	108		48	—	—	110		14	42.5	160	160		200		290				20	420	610	718						
160L	254	127	254	108		48	—	—	110		14	42.5	160	160		200		290				20	420	610	718						
180L	279	139.5	279	121	± 4.0	55	—	M36 × 3	110	± 0.50	82	14	—	19.9	0 -0.20	180	0 -1.0	24	+0.62 0	∅2.0 [Ⓜ]	M16	360	360	200	380	22	460	685	800		
200L	318	159	305	133		60	+0.046 0	M42 × 3	140		16	21.4	200	200		245		400				25	510	780	928						
225M	356	178	311	149		65	—	M48 × 3	140		18	23.9	225	225		245		410				28	545	850	998						
250M	406	203	349	168	± 4.0	70	—	M48 × 3	170	± 0.50	105	18	—	25.4	0 -0.052	250	0 -1.0	28	+0.62 0	∅2.0 [Ⓜ]	M20	515	480	315	510	30	605	935	1092		
280S	457	228.5	368	190		85	—	M56 × 4	170		20	31.7	280	280		315		530				32	665	1000	1180						
280M	457	228.5	419	190		85	—	M56 × 4	170		20	31.7	280	280		315		530				32	665	1060	1240						
315S	508	254	406	216	± 4.0	95	+0.054 0	M64 × 4	210	± 0.58	130	22	—	35.2	0 -0.062	315	0 -1.0	35	+0.62 0	∅2.5 [Ⓜ]	M24	640	620	370	630	35	750	1130	1310		
315M	508	254	457	216		95	—	M64 × 4	210		22	35.2	315	315		370		630				35	750	1180	1360						
355M	610	305	560	254		110	—	M80 × 4	210		25	41.9	355	355		440		730				38	840	1390	1610						
355L	610	305	630	254	± 4.0	130	—	M100 × 4	250	± 0.58	165	25	—	41.9	0 -0.062	400	0 -1.0	35	+0.62 0	∅2.5 [Ⓜ]	M24	740	710	440	800	38	840	1460	1680		
400L	686	343	710	280		130	—	M100 × 4	250		28	50	400	400		440		880				45	1090	1645	1890						
425L-4	720	360	900	280		130	—	M100 × 4	250		28	50	425	425		440		880				45	1090	1645	1890						
450	750	375	900	315	± 4.0	140	+0.09 +0.065	—	250	± 0.58	200	32	—	119	0 -0.062	450	0 -1.0	35	+0.62 0	∅2.5 [Ⓜ]	M35	920	920	—	1020	—	2000	—	—		
500	850	425	900	315		140	—	—	250		36	—	500	500		—		1185				—	—	2200	—	—					
560	950	475	1000	355		160	—	—	300		40	—	560	560		—		1300				—	—	2500	—	—					

Horizontally installed motors, IM3001, Im3003 (self cooling for frame size 100~132, built-in fan cooling for 160 ~ 315)



Frame size	Concave Edge Code	Dimensions & Tolerances														Outline size												
		D		D ₁	E		E ₁		F		G		M	N		P	R		S			Bolt Diameter	T Maximum	Number of holes	AD	L	LA	LB
		Basic Dimensions	Speed Deviation		Basic Dimensions	Speed Deviation	Basic Dimensions	Speed Deviation	Basic Dimensions	Speed Deviation	Basic Dimensions	Speed Deviation		Basic Dimensions	Speed Deviation		Basic Dimensions	Speed Deviation	Location	Basic Dimensions	Speed Deviation							
100L	FF215	2 8	+0.009 -0.004	—	60	±0.37	—	—	8	0	24	0	-0.20	215	180	+0.014 -0.011	250	0	±2	15	+0.43 0	M12	4	4	180	330	14	270
112M		3 2	+0.018 +0.002		80				10	-0.036	27			265											230	300		220
132M	3 8	10			33				230	300	230			300	230	495	415											
160M	FF300	4 8			110				±0.43	14	42.5			300	250	350	260								610	500		
160L		5 5	M36 × 3	82	0	-0.043	19.9	0	±3	19	+0.52 0	M16	5	8	650	18	540											
200L	6 0	140													105	0	-0.54	21.4	400	350	±0.018	450	280	685	575			
225M	6 5		M42 × 3	16	23.9	500	450	±0.020	550	19	+0.52 0	M16	5	8												320	780	20
250M	7 0	M48 × 3													18	25.4	500	450	±0.020	550	19	+0.52 0	M16	5	8	335	850	20
280S	FF500		8 5	170	130	0	-0.63	20	0	31.7	500	450	±0.020	550												±4	24	∅2.0
280M		20													0	31.7	500	450	±0.020	550	±4	24	∅2.0	M20	6			
315S	FF600	9 5	M56 × 4	170	130	0	-0.63	20	0	31.7	500	450	±0.020	550	±4	24	∅2.0	M20	6	8	520	1130	25	960				
315M																					22	-0.052		35.2	600	550	±0.022	660

Horizontally installed motors, IM3011, Im3013 (self cooling for frame size 100~132, built-in fan cooling for 160 ~ 315)



Frame size	Concave Edge Code	Dimension &Tolerance												Dimension &Tolerance										Outline size			
		D		D ₁	E		E ₁		F		G		M	N		P	R		S		Bolt Diameter	T Maximum	Number of holes	AD	L	LA	LB
		Basic Dimensions	Speed Deviation		Basic Dimensions	Speed Deviation	Basic Dimensions	Speed Deviation	Basic Dimensions	Speed Deviation	Basic Dimensions	Speed Deviation		Basic Dimensions	Speed Deviation		Basic Dimensions	Speed Deviation	Basic Dimensions	Speed Deviation							
100L	FF215	2.8	+0.009 -0.004	—	60	±0.37	—	—	8	0	24	0	215	180	+0.014 -0.011	250	±2.0	15	+0.43 0	M12	4	4	180	370	14	310	
112M		3.2	+0.018 +0.002		80				10	-0.036	27												380				
132M	3.8	10			33				455																		
160M	FF300	4.8			110	±0.43	14	42.5	300	350	260												660	18	550		
160L		5.5	M36×3	82	0	19.9	±3.0	19	+0.52 0	M16	5	700	590														
200L	6.0	M42×3				140						105	0	21.4	400	350	±0.018	450	280	735	625						
225M	6.5		M48×3	±0.50	130									0					23.9	500	450	±0.020	550	320	830	20	690
250M	7.0	M56×4				170						130	0		25.4	600	550	±0.022	660					335	900		22
280S	FF500		8.5	+0.054 0	M64×4		170	130	0	18	500			450	±0.020					550	±4.0	19	+0.52 0	M16	5	8	
280M		8.5	M56×4			170				130		0	31.7			500	450	±0.020	550								±4.0
315S	FF600	9.5		+0.054 0	M64×4		170	130	0		20		500	450	±0.020					550	±4.0	19	+0.52 0	M16	5	8	
315M			9.5			M64×4				170	130	0				35.2	600	550	±0.022								660

Shaft out-end shaft size (see the table below)

* This shaft out installation is not recommended



Model	Driving end shaft						
	D	F	E	G	GA	ED	GD ₁
YZP180	48	14	110	42.5	51.5	80	0
YZP200	55	16	110	49	59	100	5
YZP225	60	18	140	53	64	125	5
YZP250	65	18	140	58	69	125	5
YZP280	75	20	140	67.5	79.5	125	5
YZP315	80	22	170	71	85	160	5
YZP355	95	25	170	86	100	160	5
YZP400	130	32	250	119	137	200	0
YZP425L-4	130	32	250	119	137	200	0

Cooling fan's parameters

Motor frame size	160	180	200	225
Fan motor power (w)	40	60	230	230
Fan air flow (m ³ /h)	960	1200	2100	2750
Speed (r / min)	1400	2800	1400	1400
Fan input	AC380V, 50Hz			

General Description

YZPE Series 3-Phase Frequency Conversion & Speed Governing and Braking Asynchronous Motor for Metallurgy and Crane Purposes is made up of two parts, namely, the motor and the DC disc-type dead electromagnetic brake.

Working principle of YZPE: When the motor is powered on, the brake is powered on simultaneously. At this moment, the armature is immediately attracted and overcome the pressure of spring, so that the braking board comes off and away from the braking disc, and the rotor starts to run. When the motor is powered off, the brake is powered off simultaneously. The brake loses electromagnetic attractive force, and the spring pushes immediately the armature, so that the braking disc is pressed against between the braking board and armature, producing brake torque and thus stopping the motor.

Appendix: For YZPE technical parameters, refer to YZP 3-Phase Frequency Conversion and Speed Governing Asynchronous Motor for Metallurgy and Crane Purposes

Parameters for DC disc-type dead electromagnetic brake

Motor Frame size	Brake Brake torque N · m	Rated exciting voltage (DC) V	Rectification mode	Input voltage before rectification (one-phase AC) V	Output voltage after rectification (DC) V	Protection special degree	Manual release mode	Air gap δ - δ maxmm
YZPE112	40	170	半波	380	170	IP23	Handle	0.4 ~ 1.0
YZPE132	80	170	半波	380	170	IP23	Handle	0.5 ~ 1.2
YZPE160	150	170	半波	380	170	IP23	Handle	0.5 ~ 1.2
YZPE180	200	170	半波	380	170	IP23	Screw	0.6 ~ 1.5
YZPE200 L ₁ - ⁴ / ₆	300	170	半波	380	170	IP23	Screw	0.6 ~ 1.5
YZPE200 L ₂ - ⁴ / ₆	450	170	半波	380	170	IP23	Screw	0.6 ~ 1.5
YZPE225M-4	450	170	半波	380	170	IP23	Screw	0.6 ~ 1.5
YZPE225M- ⁶ / ₈	600	170	半波	380	170	IP23	Screw	0.7 ~ 2.0

