



CATALOGUE

***IE4 Permanent Magnet, Synchronous Speed,
Ultra High Efficiency Electric Motors***



**NEXT GENERATION
ELECTRIC MOTORS**



- Minimum Size,
- Minimum Weight,
- Maximum Energy Savings,
- Maximum Frequency Range
- Maximum speed range (up to 10000 Rev/min),
- Maximum Torque at low speeds (eliminates need for speed reduction gearboxes in certain applications).





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Product Overview

Three-phase rare earth permanent magnet synchronous motor is our independent research and development of high efficiency and energy saving motor design, a magnetic field with permanent magnet materials, without excitation current, without excitation winding, not only high efficiency, and simple structure, reliable operation, small volume, light weight can also do. Can achieve for traditional electric excitation motor's high performance (such as high efficiency, high speed, high response speed, and can be made into special motor can meet the requirements of a specific operation, can be widely used in all kinds of machinery, fans, pumps, textile, chemical, petroleum, electric power, compressor injection molding machine, grinder, etc.

Performance Characteristics

1. The rotating speed is constant, for the synchronous speed.
2. High power factor: 1.0 through the reasonable design can achieve the ultimate value.
3. Small volume, light weight, low noise.
4. High efficiency, normal operation, rotor winding copper consumption; High power factor, can make the stator current is small, the stator winding copper loss is small.
5. Maintain a constant speed and the motor frequency, can simplify control system.
6. Multistage, low speed high torque motor can be made, with a direct-drive type cancel gear box, without gear transmission.
7. Wide speed range, high speed of 10000 r/min.

Operating Conditions

Ambient Temperature: -15°C ~ 40°C

Rated Voltage: 380V 220V or other rated voltage

Rated Frequency: 50Hz 60Hz or other rated frequency

Working Duty: Continuous (S1)

Ingress Protection: IP54/IP55

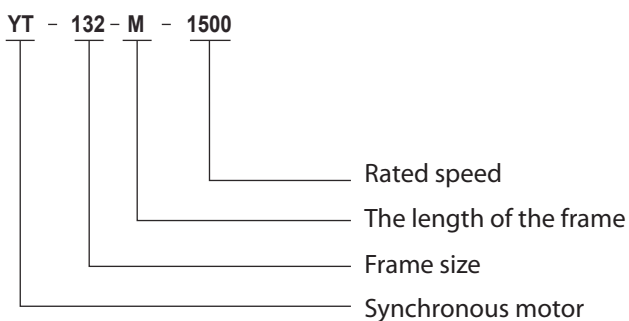
Insulation: F

Cooling Method: IC411/IC416

Connection: Y/Δ

Model Description

Example:



Technical Data

Motor Model	Rated Output	Rated Current	Rated Torque	(%) Efficiency	Power Factor	HZ Rated Efficiency
YT - 80-3000	0.75	1.3	2.4	84.9	0.95	100
YT - 80-3000	1.1	1.9	3.5	86.7	0.95	100
YT - 90S-3000	1.5	2.4	4.7	87.5	0.95	100
YT - 90L-3000	2.2	3.8	7.0	89.1	0.95	100
YT - 100L-3000	3	5.1	9.55	89.7	0.95	100
YT - 112M-3000	4	6.6	12.7	90.3	0.95	100
YT - 132S - 3000	5.5	9.2	17.5	91.5	0.95	100
YT - 132S - 3000	7.5	10.9	23.8	92.1	0.95	100
YT - 160M - 3000	11	19.5	35	93.0	0.95	150
YT - 160M - 3000	15	26.7	47.75	93.4	0.95	150
YT - 160L - 3000	18.5	32	58.9	93.8	0.95	200
YT - 180L - 3000	22	37.4	70	94.4	0.95	200
YT - 200L - 3000	30	51	95.5	94.5	0.95	200
YT - 200L - 3000	37	61.3	117.8	94.8	0.95	200
YT - 225M - 3000	45	75	143.3	95.1	0.95	200
YT - 250M - 3000	55	95	175	95.4	0.95	100
YT - 280S - 3000	75	125	238.7	95.6	0.95	100
YT - 280M - 3000	90	151	286.5	95.8	0.95	100
YT - 315S - 3000	110	179	350	96	0.95	200
YT - 315M - 3000	132	206	420	96	0.95	200
YT - 315L - 3000	160	262	509	96.2	0.95	200
YT - 315L - 3000	200	330	636.7	96.3	0.95	150
YT - 355M - 3000	220	390	700.3	96.3	0.95	150
YT - 355M - 3000	250	420	795.8	96.4	0.95	150
YT - 355L - 3000	280	470	891.3	96.5	0.95	150
YT - 355L - 3000	315	514	1002.7	96.5	0.95	150

Technical Data

Motor Model	Rated Output	Rated Current	Rated Torque	(%) Efficiency	Power Factor	HZ Rated Efficiency
YT - 80-1500	0.55	0.96	3.5	84.5	0.95	50
YT - 80-1500	0.75	1.3	4.7	85.6	0.95	50
YT - 90S-1500	1.1	1.9	7	87.4	0.95	50
YT - 90L-1500	1.5	2.6	9.55	89.1	0.95	50
YT - 100L-1500	2.2	3.7	14	89.7	0.95	50
YT - 100L-1500	3	5.1	19.1	90.3	0.95	50
YT - 112M - 1500	4	6.6	25.4	90.9	0.95	50
YT - 132S - 1500	5.5	9	35	92.1	0.95	50
YT - 132M - 1500	7.5	12.2	47.75	92.6	0.95	50
YT - 160M - 1500	11	18.6	70	93.6	0.95	50
YT - 160L - 1500	15	23.9	95.5	94.0	0.95	50
YT - 180M - 1500	18.5	32	117.7	94.3	0.95	100
YT - 180L - 1500	22	37	140	94.7	0.95	100
YT - 200L - 1500	30	50	191	95	0.95	100
YT - 225S - 1500	37	65	235.6	95.3	0.95	100
YT - 225M - 1500	45	71	286.5	95.6	0.95	100
YT - 250M - 1500	55	85.4	350	95.8	0.95	100
YT - 280S - 1500	75	117	477.5	96.0	0.95	100
YT - 280M - 1500	90	152	573	96.2	0.95	100
YT - 315S - 1500	110	183	700	96.4	0.95	100
YT - 315M - 1500	132	209	840.4	96.5	0.95	100
YT - 315L - 1500	160	260	1018.6	96.5	0.95	100
YT - 315L - 1500	200	352	1273.3	96.6	0.95	100
YT - 355M -1500	220	358	1400.7	96.6	0.95	100
YT - 355M - 1500	250	435	1591.7	96.7	0.95	75
YT - 355L - 1500	280	470	1782.7	96.8	0.95	75
YT - 355L - 1500	315	548	2005.5	96.8	0.95	75

Technical Data

Motor Model	Rated Output	Rated Current	Rated Torque	(%) Efficiency	Power Factor	HZ Rated Efficiency
YT - 80-1500	0.55	0.96	3.5	84.5	0.95	50
YT - 80-1500	0.75	1.3	4.7	85.6	0.95	50
YT - 90S-1500	1.1	1.9	7	87.4	0.95	50
YT - 90L-1500	1.5	2.6	9.55	89.1	0.95	50
YT - 100L-1500	2.2	3.7	14	89.7	0.95	50
YT - 100L-1500	3	5.1	19.1	90.3	0.95	50
YT - 112M - 1500	4	6.6	25.4	90.9	0.95	50
YT - 132S - 1500	5.5	9	35	92.1	0.95	50
YT - 132M - 1500	7.5	12.2	47.75	92.6	0.95	50
YT - 160M - 1500	11	18.6	70	93.6	0.95	50
YT - 160L - 1500	15	23.9	95.5	94.0	0.95	50
YT - 180M - 1500	18.5	32	117.7	94.3	0.95	100
YT - 180L - 1500	22	37	140	94.7	0.95	100
YT - 200L - 1500	30	50	191	95	0.95	100
YT - 225S - 1500	37	65	235.6	95.3	0.95	100
YT - 225M - 1500	45	71	286.5	95.6	0.95	100
YT - 250M - 1500	55	85.4	350	95.8	0.95	100
YT - 280S - 1500	75	117	477.5	96.0	0.95	100
YT - 280M - 1500	90	152	573	96.2	0.95	100
YT - 315S - 1500	110	183	700	96.4	0.95	100
YT - 315M - 1500	132	209	840.4	96.5	0.95	100
YT - 315L - 1500	160	260	1018.6	96.5	0.95	100
YT - 315L - 1500	200	352	1273.3	96.6	0.95	100
YT - 355M -1500	220	358	1400.7	96.6	0.95	100
YT - 355M - 1500	250	435	1591.7	96.7	0.95	75
YT - 355L - 1500	280	470	1782.7	96.8	0.95	75
YT - 355L - 1500	315	548	2005.5	96.8	0.95	75

Technical Data

Motor Model	Rated Output	Rated Current	Rated Torque	(%) Efficiency	Power Factor	HZ Rated Efficiency
YT - 80-1000	0.55	1.0	5.25	82.4	0.95	33.3
YT - 90S-1000	0.75	1.3	7.2	86.8	0.95	33.3
YT - 90L-1000	1.1	1.9	10.5	88.2	0.95	33.3
YT - 100L-1000	1.5	2.7	14.3	89.4	0.95	33.3
YT - 112M-1000	2.2	3.9	21	90.5	0.95	66.7
YT - 132S-1000	3	5	28.6	91.5	0.95	50
YT - 132M - 1000	4	6.6	38.2	92.4	0.95	50
YT - 132M - 1000	5.5	9.5	52.5	93.1	0.95	50
YT - 160M - 1000	7.5	12.5	71.6	93.7	0.95	50
YT - 160L - 1000	11	18.5	105	94.3	0.95	66.7
YT - 180L - 1000	15	25	143.3	94.7	0.95	66.7
YT - 200L - 1000	18.5	32	176.7	95.1	0.95	66.7
YT - 200L - 1000	22	36.5	210	95.4	0.95	66.7
YT - 225M - 1000	30	49	286.5	95.7	0.95	66.7
YT - 250M - 1000	37	61	353.3	95.9	0.95	66.7
YT - 280S - 1000	45	71	430	96.0	0.95	66.7
YT - 280M - 1000	55	86	525.3	96.1	0.95	66.7
YT - 315S - 1000	75	123	716.3	96.2	0.95	66.7
YT - 315M - 1000	90	141	860	96.2	0.95	66.7
YT - 315L - 1000	110	174	1050.5	96.3	0.95	66.7
YT - 315L - 1000	132	210	1260.6	96.3	0.95	66.7
YT - 355M - 1000	160	248	1528	96.3	0.95	66.7
YT - 355M - 1000	200	320	1910	96.4	0.95	66.7
YT - 355L - 1000	220	352	2101	96.4	0.95	66.7
YT - 355L - 1000	250	407	2387.5	96.4	0.95	66.7
YT - 355L - 1000	315	545	3008.3	96.4	0.95	50

Motor Model	Rated Output	Rated Current	Rated Torque	(%) Efficiency	Power Factor	HZ Rated Efficiency
YT - 112M - 750	1.5	2.8	19.1	90	0.95	50
YT - 132S - 750	2.2	3.8	28	90	0.95	37.5
YT - 132M - 750	3	5.2	38.2	91.0	0.95	37.5
YT - 160M - 750	4	7.2	51	91.8	0.95	50
YT - 160M - 750	5.5	9.9	70	92.6	0.95	50
YT - 160L - 750	7.5	13.4	95.5	93.2	0.95	50
YT - 180L - 750	11	19.5	140	93.7	0.95	50
YT - 200L - 750	15	26.6	191	94.2	0.95	50
YT - 225S - 750	18.5	32.7	235.6	94.6	0.95	50
YT - 225M - 750	22	38.3	280	94.9	0.95	50
YT - 250M - 750	30	52.7	382	95.1	0.95	50
YT - 280S - 750	37	65	471	95.3	0.95	50
YT - 280M - 750	45	75.8	573	95.6	0.95	50
YT - 315S - 750	55	96.2	700	95.6	0.95	50
YT - 315M - 750	75	122	955	95.7	0.95	50
YT - 315L - 750	90	157	1146	95.7	0.95	50
YT - 315L - 750	110	185.7	1400	95.7	0.95	50
YT - 355M - 750	132	200	1680.8	95.8	0.95	50
YT - 355M - 750	160	270	2037	95.8	0.95	50
YT - 355L - 750	200	337	2546	95.8	0.95	50
YT - 355L - 750	220	352	2801	95.8	0.95	50
YT - 355L - 750	250	400	3183	96.5	0.95	37.5
YT - 355L - 750	280	448	3565	96.5	0.95	37.5
YT - 355L - 750	315	503	4011	96.5	0.95	37.5

Frame	Pole	Mounting dimension									Overall dimension				
		A	B	C	D	E	F	G	H	K	AB	AC	AD	HD	L
80M	2.4.6.8	125	100	50	19	40	6	15.5	80	10	165	175	150	175	290
90S	2.4.6.8	140	100	56	24	50	8	20	90	10	180	195	160	195	315
90L	2.4.6.8	140	125	56	24	50	8	20	90	10	180	195	160	195	340
100L	2.4.6.8	160	140	63	28	60	8	24	100	12	205	215	180	245	380
112M	2.4.6.8	190	140	70	28	60	8	24	112	12	245	240	190	265	400
132S	2.4.6.8	216	140	89	38	80	10	33	132	12	280	275	210	315	475
132M	2.4.6.8	216	178	89	38	80	10	33	132	12	280	275	210	315	515
160M	2.4.6.8	254	210	108	42	110	12	37	160	15	330	335	265	385	605
160L	2.4.6.8	254	254	108	42	110	12	37	160	15	330	335	265	385	650
180M	2.4.6.8	279	241	121	48	110	14	42.5	180	15	355	380	285	430	670
180L	2.4.6.8	279	279	121	48	110	14	42.5	180	15	355	380	285	430	710
200L	2.4.6.8	318	305	133	55	110	16	49	200	19	395	420	315	475	775
225S	4.8	356	286	149	60	140	18	53	225	19	435	475	345	530	820
225M	2	356	311	149	55	110	16	49	225	19	435	475	345	530	815
	4.6.8				60	140	18	53							845
250M	2	406	349	168	60	140	18	53	250	24	490	515	385	575	930
	4.6.8				65	140	18	58							
280S	2	457	368	190	65	140	18	58	280	24	550	585	410	640	1000
	4.6.8				75	140	20	67.5							
280M	2	457	419	190	65	140	18	58	280	24	550	585	410	640	1050
	4.6.8				75	140	20	67.5							
315S	2	508	406	216	65	140	18	58	315	28	635	645	576	865	1240
	4.6.8				80	170	22	71							1270
315M	2	508	457	216	65	140	18	58	315	28	635	645	576	865	1310
	4.6.8				80	170	22	71							1340
315L	2	508	508	216	65	140	18	58	315	28	635	645	576	865	1310
	4.6.8				80	170	22	71							1340
355M	2	610	560	254	75	140	20	67.5	355	28	730	710	655	1010	1660
	4.6.8				95	170	25	86							1760
355L	2	610	560	254	75	140	20	67.5	355	28	730	710	655	1010	1660
	4.6.8				95	170	25	86							1760

Frame	Pole	Mounting dimension											Overall dimension			
		D	E	F	G	M	N	P	R	S	凸	T	AC	AD	HF	L
80M	2.4.6.8	19	40	6	15.5	165	130	200	0	12	4	3.5	175	150	185	290
90S	2.4.6.8	24	50	8	20	165	130	200	0	12	4	3.5	195	160	195	315
90L	2.4.6.8	24	50	8	20	165	130	200	0	12	4	3.5	195	160	195	340
100L	2.4.6.8	28	60	8	24	215	180	250	0	15	4	4	215	180	245	380
112M	2.4.6.8	28	60	8	24	215	180	250	0	15	4	4	240	190	265	400
132S	2.4.6.8	38	80	10	33	265	230	300	0	12	4	4	275	210	315	475
132M	2.4.6.8	38	80	10	33	265	230	300	0	15	4	4	275	210	315	515
160M	2.4.6.8	42	110	12	37	300	250	350	0	19	4	5	335	265	385	605
160L	2.4.6.8	42	110	12	37	300	250	350	0	19	4	5	335	265	385	650
180M	2.4.6.8	48	110	14	42.5	300	250	350	0	19	4	5	380	285	430	670
180L	2.4.6.8	48	110	14	42.5	300	250	350	0	19	4	5	380	285	430	710
200L	2.4.6.8	55	110	16	49	350	300	400	0	19	4	5	420	315	480	775
225S	4.8	60	140	18	53	400	350	450	0	19	8	5	475	345	535	820
225M	2	55	110	16	49	400	350	450	0	19	8	5	475	345	535	815
	4.6.8	60	140	18	53				0							845
250M	2	60	140	18	53	500	450	550	0	19	8	5	515	345	595	930
	4.6.8	65	140	18	58				0							
280S	2	65	140	18	58	500	450	550	0	19	8	5	585	410	650	1000
	4.6.8	75	140	20	67.5				0							
280M	2	65	140	18	58	500	450	550	0	19	8	5	585	410	650	1050
	4.6.8	75	140	20	67.5				0							
315S	2	65	140	18	58	600	550	660	0	24	8	6	645	576	900	1240
	4.6.8	80	170	22	71				0							1270
315M	2	65	140	18	58	600	550	660	0	28	8	6	645	576	900	1310
	4.6.8	80	170	22	71				0							1340
315L	2	65	140	18	58	600	550	660	0	28	8	6	645	576	900	1310
	4.6.8	80	170	22	71				0							1340
355M	2	75	140	20	67.5	740	680	800	0	24	8	6	710	655	1010	1660
	4.6.8	95	170	25	86				0							1760
355L	2	75	140	20	67.5	740	680	800	0	24	8	6	710	655	1010	1660
	4.6.8	95	170	25	86				0							1760

Frame	Pole	Mounting dimension														Overall dimension				
		A	B	C	D	E	F	G	H	K	M	N	P	S	T	AB	AC	AD	HD	L
80M	2.4.6.8	125	100	50	19	40	6	15.5	80	10	165	130	200	12	3.5	165	175	150	175	290
90S	2.4.6.8	140	100	56	24	50	8	20	90	10	165	130	200	12	3.5	180	195	160	195	315
90L	2.4.6.8	140	125	56	24	50	8	20	90	10	165	130	200	12	3.5	180	195	160	195	340
100L	2.4.6.8	160	140	63	28	60	8	24	100	12	215	180	250	15	4	205	215	180	245	380
112M	2.4.6.8	190	140	70	28	60	8	24	112	12	215	180	250	15	4	245	240	190	265	400
132S	2.4.6.8	216	140	89	38	80	10	33	132	12	265	230	300	15	4	280	275	210	315	475
132M	2.4.6.8	216	178	89	38	80	10	33	132	12	265	230	300	15	4	280	275	210	315	515
160M	2.4.6.8	254	210	108	42	110	12	37	160	15	300	250	350	19	5	330	335	265	385	605
160L	2.4.6.8	254	254	108	42	110	12	37	160	15	300	250	350	19	5	330	335	265	385	650
180M	2.4.6.8	279	241	121	48	110	14	42.5	180	15	300	250	350	19	5	355	380	285	430	670
180L	2.4.6.8	279	279	121	48	110	14	42.5	180	15	300	250	350	19	5	355	380	285	430	710
200L	2.4.6.8	318	305	133	55	110	16	49	200	19	350	300	400	19	5	395	420	315	475	775
225S	4.8	356	286	149	60	140	18	53	225	19	400	350	450	19	5	435	475	345	530	820
225M	2	356	311	149	55	110	16	49	225	19	400	350	450	19	5	435	475	345	530	815
	4.6.8				60	140	18	53												845
250M	2	406	349	168	60	140	18	53	250	24	500	450	550	19	5	490	515	385	575	930
	4.6.8				65	140	18	58												
280S	2	457	368	190	65	140	18	58	280	24	500	450	550	19	5	550	585	410	640	1000
	4.6.8				75	140	20	67.5												
280M	2	457	419	190	65	140	18	58	280	24	500	450	550	19	5	550	585	410	640	1050
	4.6.8				75	140	20	67.5												
315S	2	508	406	216	65	140	18	58	315	28	600	550	660	24	6	635	645	576	865	1240
	4.6.8				80	170	22	71												1270
315M	2	508	457	216	65	140	18	58	315	28	600	550	660	24	6	635	645	576	865	1310
	4.6.8				80	170	22	71												1340
315L	2	508	508	216	65	140	18	58	315	28	600	550	660	24	6	635	645	576	865	1310
	4.6.8				80	170	22	71												1340
355M	2	610	560	254	75	140	20	67.5	355	28	740	680	800	24	6	730	710	655	1010	1660
	4.6.8				95	170	25	86												1760
355L	2	610	560	254	75	140	20	67.5	355	28	740	680	800	24	6	730	710	655	1010	1660
	4.6.8				95	170	25	86												1760



