

TYK系列变频驱动永磁同步电机

TYK SERIES PM SYNCHRONOUS MOTOR DRIVEN BY VARIABLE FREQUENCY CONVERTER

一体机的特点

CHARACTERISTIC OF INTEGRATED MOTOR

- ▶ 采用超高内禀矫顽力、耐高温稀土永磁材料，抗去磁能力强
- ▶ 使用优化的电磁设计，几乎在整个转速范围内可恒转矩输出
- ▶ 正弦波磁场设计，低速转矩平稳，过载能力强
- ▶ F级绝缘、IP23防护结构，环境适用性强，使用安全可靠
- ▶ Ultra-high intrinsic coercivity, high temperature rare earth permanent magnet materials, strong resistance to magnetic energy
- ▶ Using electromagnetic design optimization, almost with the entire speed range constant torque output
- ▶ Sinusoidal magnet field design, smooth low-speed torque high overload capability
- ▶ Class F insulation, IP23 protection structure, environmental applicability, safe and reliable use



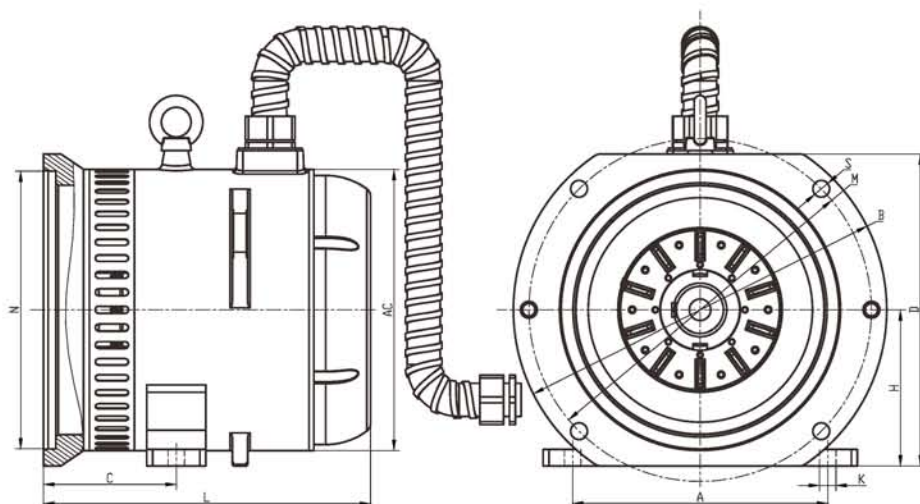
一体机技术规范

INTEGRATED MOTOR TECHNICAL SPECIFICATIONS

电机型号 Frame size		TYK112 S-8A	TYK112 M-8A	TYK132 S-8A	TYK132 M-8A	TYK160 M-8A	TYK160 L-8A	TYK180 S-8A	TYK180 M-8A	TYK180 L-8A	TYK225 S-6A	TYK225 L1-6A	TYK225 L2-6A	TYK280 S-6A	TYK280 M-6A
额定功率 Rated Power	KW	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	75	90
额定转速 Rated Speed	rpm	2200	3000	2200	3000	2500	3000	2300	3000	3600	2200	3000	3600	1500	1500
额定转矩 Rated Torque	N.m	23.9	23.9	47.8	47.8	70.7	70.0	124.6	117.8	119.4	238.8	238.8	286.5	477.5	573.0
额定电流 Rated Current	A	11	15	21.3	30.2	34	42	55.6	67.4	82	98	137	164	136	163
效率 Efficiency	%	89.8	89.8	91.5	91.3	92.5	92.5	93.5	93.6	93.6	94.6	94.6	95.2	95	95.2
额定电压 Rated Voltage	V	380	380	380	380	380	380	380	380	380	380	380	380	380	380
重量 weight	kg	29.5	31.5	40.5	44.5	57.2	61.2	86.5	92.8	118	146.5	158.6	176.5	204	228

一体机安装尺寸

INTEGRATED MOTOR MOUNTING DIMENSION



电机型号 Frame size	A	B	C	D	AC	H	K	L	M	N	S
TYK112	190	248	105	202	202	112	12	257	226	176	4-Φ12
TYK132	216	316	112.5	264	242	132	14	277	290	235	4-Φ14
TYK160	254	350	115	300	290	260	14	282	320	261	4-Φ18
TYK180	270	380	130	328	320	180	18	312	380	291	8-Φ13
TYK225	430	527	179.5	476	410	225	22	432	484	401	8-Φ16
TYK280	540	590	260	540	495	280	22	550	560	446	8-Φ18

分体机的特点

CHARACTERISTIC OF SPLIT-TYPE MOTOR

- ▶ 采用超高内禀矫顽力、耐高温稀土永磁材料，抗去磁能力强
- ▶ 节能效果卓越
- ▶ 环境适用性强，使用安全可靠
- ▶ Ultra-high intrinsic coercivity, high temperature rare earth permanent magnet materials, strong resistance to magnetic energy
- ▶ Remarkable energy saving effect
- ▶ Strong environmental applicability and safe and reliable use



分体机技术规范

SPLIT-TYPE MOTOR TECHNICAL SPECIFICATIONS

SPEED 3000RPM

电机型号 Frame size	额定功率 Rated Power KW	额定转速 Rated Speed rpm	额定转矩 Rated current N.M	额定电流 Rated Current A	效率 Efficiency H %	额定电压 Rated voltage V	重量 Weight KG
TYK112M1	5.5	3000	17.5	10.0	89.2	380	39
TYK112M2	7.5	3000	23.9	13.6	90.1	380	46
TYK132S1	11	3000	35.0	20.0	91.2	380	55
TYK132S2	15	3000	47.8	27.2	91.9	380	61
TYK160M1	18.5	3000	58.9	33.6	92.4	380	98
TYK160M2	22	3000	70.0	39.9	92.7	380	108
TYK180M1	30	3000	95.5	54.5	93.3	380	158
TYK180M2	37	3000	117.8	67.2	93.7	380	168
TYK180M3	45	3000	143.3	81.7	94	380	180
TYK225M1	55	3000	175.1	99.8	94.5	380	298
TYK225M2	75	3000	238.8	136.1	94.9	380	320
TYK250M1	90	3000	286.5	163.4	95.3	380	377
TYK250M2	110	3000	350.2	199.7	95.4	380	401
TYK280S1	132	3000	420.2	239.6	95.4	380	480
TYK280S2	160	3000	509.3	290.4	95.6	380	515
TYK280M1	200	3000	636.7	363.0	95.8	380	570
TYK280M2	250	3000	795.8	453.8	95.8	380	608

分体机技术规范

SPLIT-TYPE MOTOR TECHNICAL SPECIFICATIONS

SPEED 1500RPM

电机型号 Frame size	额定功率 Rated Power KW	额定转速 Rated Speed rpm	额定转矩 Rated current N.M	额定电流 Rated Current A	效率 Efficiency H %	额定电压 Rated voltage V	重量 Weight KG
TYK112L1	5.5	1500	35.0	9.8	89.8	380	48
TYK112L2	7.5	1500	47.8	13.4	90.5	380	53
TYK132M1	11	1500	70.0	19.7	91.5	380	66
TYK160L1	15	1500	95.5	26.8	92.3	380	114
TYK180L1	18.5	1500	117.8	33.0	92.6	380	155
TYK180L2	22	1500	140.1	39.3	93.1	380	165
TYK180L3	30	1500	191.0	53.6	93.6	380	190
TYK225L1	37	1500	235.6	66.1	94.1	380	290
TYK225L2	45	1500	286.5	80.4	94.2	380	325
TYK250L1	55	1500	350.2	98.3	94.7	380	387
TYK250L2	75	1500	477.5	134.0	95.1	380	440
TYK280L1	90	1500	573.0	160.8	95.3	380	525
TYK280L2	110	1500	700.3	196.5	95.4	380	560
TYK280L3	132	1500	840.4	235.8	95.6	380	608
TYK280L4	160	1500	1018.7	285.8	95.8	380	670
TYK315M1	200	1500	1273.3	357.3	96	380	1125
TYK315M2	250	1500	1591.7	446.6	96	380	1220



分体机技术规范

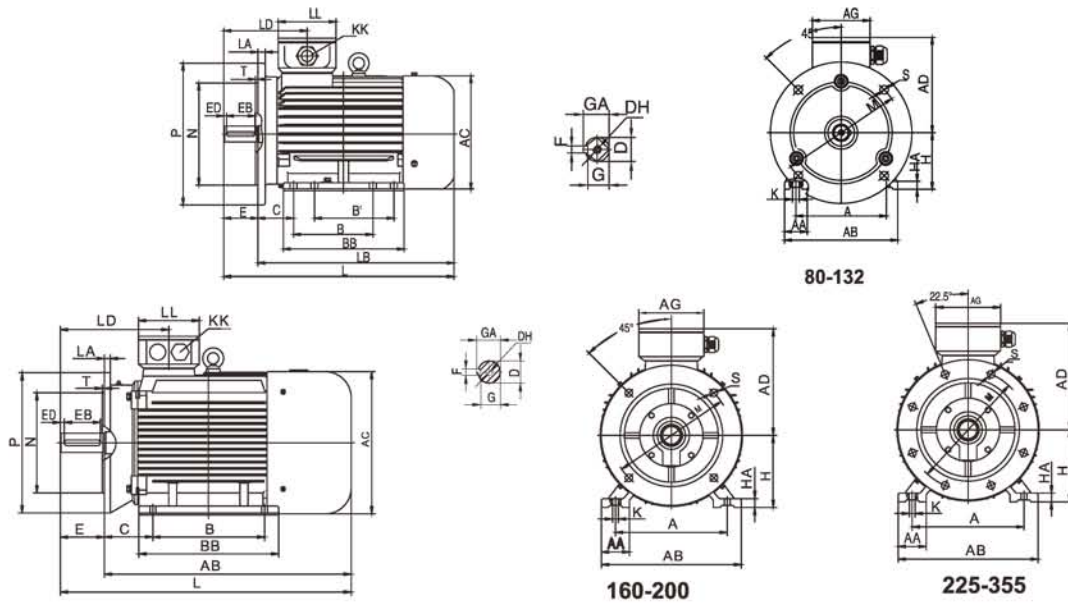
SPLIT-TYPE MOTOR TECHNICAL SPECIFICATIONS

SPEED 1000RPM

电机型号 Frame size	额定功率 Rated Power KW	额定转速 Rated Speed rpm	额定转矩 Rated current N.M	额定电流 Rated Current A	效率 Efficiency H %	额定电压 Rated voltage V	重量 Weight KG
TYK132S	5.5	1000	52.5	10.3	89.7	380	62.3
TYK132M	7.5	1000	71.6	13.8	90.6	380	75.2
TYK160M	11	1000	105.1	20.1	91.4	380	112
TYK160L	15	1000	143.3	27.3	92	380	134
TYK180M1	18.5	1000	176.7	33.4	92.6	380	181
TYK180M2	22	1000	210.1	39.5	93.2	380	189
TYK180L	30	1000	286.5	53.6	93.6	380	197
TYK225S	37	1000	353.4	65.8	94	380	284
TYK225M	45	1000	429.8	79.7	94.4	380	308
TYK250M1	55	1000	525.3	98	94.7	380	383
TYK250M2	75	1000	716.3	132	95	380	425
TYK280S	90	1000	859.5	158	95.2	380	501
TYK280M1	110	1000	1050.5	193	95.3	380	573
TYK280M2	132	1000	1260.6	231	95.4	380	615
TYK315S	160	1000	1528.0	280	95.6	380	843
TYK315M	200	1000	1910.0	349	95.8	380	941
TYK315L	250	1000	2387.5	436	95.8	380	1017

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SPLIT-TYPE MOTOR MOUNTING DIMENSION

IM B35 H80-355



型号 Type	A	AA	AB	AC	AD	AG	B	BB	C	D	DH	E	EB	ED	F	G	GA	H	HA	K	KK	L	LA	LB	LD	LL	M	N	P	S	T
112M	190	50	240	230	188	118	140	188	70	28	M10X22	60	50	5	8	24	31	112	15	4-Φ12	2-M32X1.5	394	14	334	147	110	215	180	250	14.5	4
132S	216	55	262	258.4	203	118	140	200	89	38	M12X28	80	65	7.5	10	33	41	132	18	4-Φ12	2-M32X1.5	470	14	390	172	110	265	230	300	14.5	4
132M	216	55	262	258.4	203	118	178	238	89	38	M12X28	80	65	7.5	10	33	41	132	18	4-Φ12	2-M32X1.5	508	14	428	172	110	265	230	300	14.5	4
160M	254	65	314	314	251	162	210	260	108	42	M16X36	110	90	10	12	37	45	160	20	4-Φ14.5	2-M40X1.5	608	15	498	256	152	300	250	350	18.5	5
160L	254	65	314	314	251	162	254	304	108	42	M16X36	110	90	10	12	37	45	160	20	4-Φ14.5	2-M40X1.5	652	15	542	256	152	300	250	350	18.5	5
180M	279	70	349	355	267	162	241	311	121	48	M16X36	110	90	10	14	42.5	51.5	180	22	4-Φ14.5	2-M40X1.5	688	15	578	271	152	300	250	350	18.5	5
180L	279	70	349	355	267	162	279	349	121	48	M16X36	110	90	10	14	42.5	51.5	180	22	4-Φ14.5	2-M40X1.5	726	15	616	271	152	300	250	350	18.5	5
200L	318	70	388	397	299	210	305	369	133	55	M20X42	110	100	5	16	49	59	200	25	4-Φ18.5	2-M50X1.5	779	17	669	296	190	350	300	400	18.5	5
225S	356	75	431	446	322	210	286	368	149	60	M20X42	140	125	7.5	18	53	64	225	28	4-Φ18.5	2-M50X1.5	824	20	684	329	190	400	350	450	18.5	5
225M	356	75	431	446	322	210	311	393	149	60	M20X42	140	125	7.5	18	53	64	225	28	4-Φ18.5	2-M50X1.5	849	20	709	329	190	400	350	450	18.5	5
250M	406	80	484	485	358	248	349	445	168	65	M20X42	140	125	7.5	18	58	69	250	30	4-Φ24	2-M63X1.5	910	22	770	347	218	500	450	550	18.5	5
280S	457	85	542	547	387	248	368	485	190	75	M20X42	140	125	7.5	20	67.5	79.5	280	35	4-Φ24	2-M63X1.5	982	22	842	355.5	218	500	450	550	18.5	5
280M	457	85	542	547	387	248	419	536	190	75	M20X42	140	125	7.5	20	67.5	79.5	280	35	4-Φ24	2-M63X1.5	1033	22	893	355.5	218	500	450	550	18.5	5
315S	508	120	628	620	527	320	406	570	216	80	M20X42	170	160	5	22	71	85	315	45	4-Φ28	2-M63X1.5	1224	22	1054	427	280	600	550	660	24	6
315M	508	120	628	620	527	320	457	680	216	80	M20X42	170	160	5	22	71	85	315	45	4-Φ28	2-M63X1.5	1334	22	1164	427	280	600	550	660	24	6
315L	508	120	628	620	527	320	508	680	216	80	M20X42	170	160	5	22	71	85	315	45	4-Φ28	2-M63X1.5	1334	22	1164	427	280	600	550	660	24	6