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QUALITY SPRINGS FROM TECHNOLOGY

Synchronous Motor for Mill
TM、TMQ、TMW 系列
磨煤机同步电机

1 概述

TM、TMQ、TMW 系列矿山球磨机用高压三相同步电动机，是根据引进国内外大量先进技术，结合我公司设计、制造特点而研制的新系列产品。该类电机是与矿山球磨机配套的专用系列产品。

本系列电机的研发采用了先进的计算分析技术，加上制造中采用上乘的材料和精良的工艺，使得该系列电机具有结构紧凑、振动小、噪音低、运行可靠、安装维护方便等优点，是新一代、高性能的矿山球磨机驱动设备。

本系列电机的功率等级、安装尺寸、电气性能均符合 GB755、IEC 标准及相关国家标准要求。其中 TMQ 系列高起动转矩电机符合 JB1473《传动矿山磨机用大型交流三相同步电动机技术条件》。标准的防护等级为 IP20 或 IP21，冷却方式采用开启式自通风冷却或管道通风冷却，根据用户实际需要也可制成其他防护等级和冷却方式。本系列电机的轴承均采用具有自润滑功能的滑动轴承。

TM、TMW 系列电机须采用空气离合器和球磨机联接，TMQ 系列电机具有高起动转矩、高牵入转矩特性，该电机与球磨机可不需要空气离合器而进行直联。

系列电机的基本安装方式为卧式 IM7311，符合 GB997 和 IEC34-7《电机结构及安装型式代号》的规定。

1 General description

TM、TMQ、TMW Series synchronous motor, for ball mill application, are our new products which absorbed the latest technology of both domestic and abroad, designed and manufactured by our company. The series of motors are especially for mine mill machines.

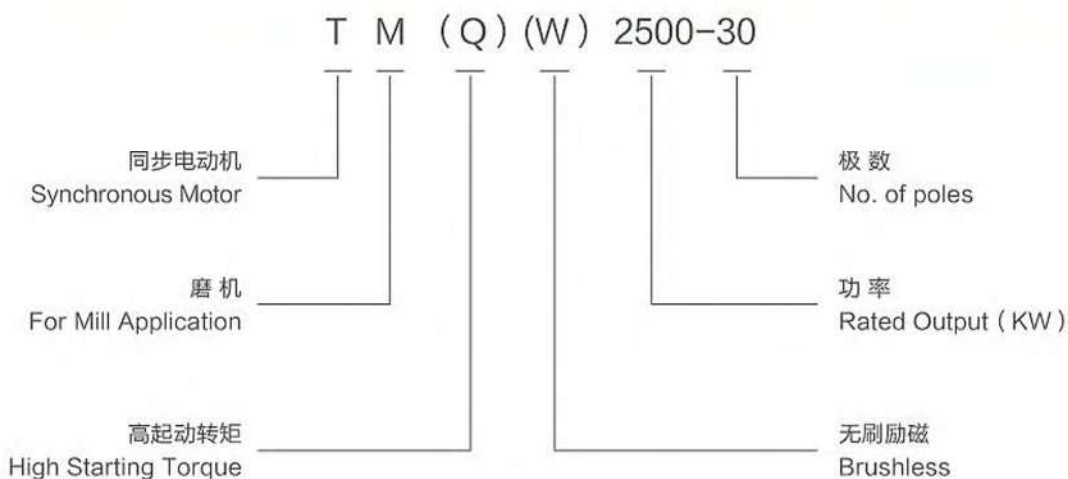
In order to develop these series motors, advanced analytic and calculation technology had been used, fine materials and excellent workmanship were also adopted during manufacturing. All of those give series motors compact structure, low vibration, low noise, high reliability, convenient for installation and maintenance.

The power grade, installation dimension and electric property of these series motors comply with Chinese Electrical Standard GB755, IEC Standard and relevant national standards. The TMQ series high starting torque motors comply with JB1473《Technical specification for driving mine mill large AC three-phase synchronous motor》. The standard protection degree of series motors is IP20 or IP21, which adopt open-type self-ventilated or pipe-ventilated cooling type, other protection degrees and cooling types are also available if required by customers. These series motors use self-lubricating sliding bearing.

TM、TMW series motors should use airclutch to couple with mill machines, While TMQ series motors could be directly coupled with mill machines without airclutch due to its high starting torque and high pull in torque characteristics.

Basic mounting type for series motors is horizontal IM7311, which comply with relevant standards of GB997 and IEC34-7《The motor structure and mounting type code》.

2 型号说明 / Type Designation



TM、TMW系列磨煤机用高压同步电动机

TM、TMW Series HV Synchronous Motor

3 性能特点

本系列电机额定电压 6kV 或 10kV，额定频率 50 或 60Hz，额定功率因数 0.9(超前)。也可根据用户要求提供其它电压等级、其它频率范围、不同功率因数的同类派生产品。

本系列电机采用全电压直接起动。如用户电网容量不够，在起动转矩能满足要求的情况下也可采用降压起动（如：软起动）。

本系列电机具有结构紧凑、效率高、过载能力强、振动小、安装维护方便等显著特点。传统直联齿轮联轴器结构的电动机具有较大的堵转转矩，要求能直接启动带一定负载的球磨机，电动机的堵转电流大，对用户电网要求较高。采用空气离合器联接结构的电动机，轴中心打有通孔，尾端带压缩空气接口法兰，电动机的堵转电流小，对电网要求较低。

4 结构简介

主电机采用座式轴承，带底座安装，电机底部出线。

定子铁芯采用优质硅钢板冲制叠压而成，机座采用钢板焊接结构，整机绝缘等级 F 级，定子绕组采用真空压力（VPI）浸漆处理技术。

转子磁极铁芯采用优质钢板冲制叠压而成，磁极绕组采用铜母线绕制，磁极线圈对地绝缘采用整体烫包技术，单极采用 VPI 真空压力浸漆处理后，很大程度上提高了磁极线圈的防潮、防霉能力，磁极通过高强度螺栓固定在转子支架的磁轭上。磁轭为钢板焊接结构，磁轭内圈通过过盈量将扭矩传递到主轴。采用空气离合器联接的电机主轴上需要打通孔用于压缩空气通过。

3 Performance Characteristics

These series motors have two rated voltage classes with 6KV or 10KV, rated frequency 50HZ or 60HZ, rated power factor 0.9 (Lead). If required different voltage class, frequency and power factor, we can supply the same kind derived products as well.

These series motors adopt full voltage direct starting type. If the user's power network capacity is not enough, reduced voltage starting (such as soft start) can also be adopted if starting torque meets the requirement.

These series motors have outstanding characteristics such as compact structure, high efficiency, better overload capacity, low vibration, convenient for installation and maintenance. The motors which adopt traditional direct gear coupling structure will bring high rotor torque, it demands to drive the mill machine with regular load directly, these series motors have high stall current, therefore request for a good power network capacity. The motors which adopt airclutch coupling type have a through-hole in the shaft center, with compressed air interface flange at the end, these series motors will have low stall current, no special requirement to normal power network capacity.

4 Motor structure

The main motors adopt pedestal bearing, with mounting type base frame and the cable lead out from the bottom of motors.

The stator cores are precision-stamped from high quality silicon steel plate, a steel plate welded construction has been used on the frame, the insulation class of series motors is class F, and the stator winding is vacuum pressure impregnated(VPI).

The rotor iron cores are precision-stamped from high quality steel plate, the pole winding uses TMY, and entirety cladding technology was adopted to the pole coil for ground insulation, after VPI on the monopole, the pole coil's anti-humidity and mould proof ability will be highly increased. The magnetic pole is fixed on the magnetic yoke of rotor supported by high strength bolt. A steel plate welded construction has been used on the magnetic yoke, the torque is transmitted to the main shaft through magnitude of interference from magnetic inside track. The main shaft which uses airclutch coupling should be with a through hole for the compressed air circulating.

5 技术参数 Technical Data Table

5.1 TM、TMW 系列同步电动机技术数据 (6kV、50Hz)

5.1 Technical data (6KV, 50Hz)

型号 Type	额定功率 Rated Output (kW)	同步转速 Synchronous speed (r/min)	功率因数 Power Factor	电流 Current (A)	效率 Efficiency %	起动电流 倍数 Starting Current Multiple (Ist/In)	起动转矩 倍数 Starting Torque Multiple (Mst/Mn)	牵入转矩 倍数 Pull-in Torque Multiple (Mpi/Mn)	失步转矩 倍数 Step out Torque Multiple (Mm/Mn)	励磁电压 Excitation Voltage (V)	励磁电流 Excitation Current (A)
TM630-30	630	200	0.9	70.9	95	3.99	0.63	0.75	2.3	71.9	234
TM800-30	800	200	0.9	90	95	3.86	0.59	0.75	2.2	84.7	231.6
TM1000-30	1000	200	0.9	112.3	95.2	3.38	0.56	0.66	1.98	70.1	254.7
TM1250-30	1250	200	0.9	139.7	95.7	4.05	0.67	0.8	2.2	82.4	270.4
TM1600-30	1600	200	0.9	178.1	96.1	4.2	0.58	0.89	2.24	90.3	275.4
TM1800-30	1800	200	0.9	200.1	96.2	4.12	0.64	0.83	2.21	98.4	277.7
TM2000-30	2000	200	0.9	222	96.3	4.14	0.63	0.84	2.18	106.5	273
TM2240-30	2240	200	0.9	248.3	96.5	4.16	0.74	0.85	2.04	115	246.5
TM2500-30	2500	200	0.9	276.8	96.6	3.9	0.66	0.8	2	125.4	252.6
TM2800-30	2800	200	0.9	309.5	96.7	4.38	0.77	0.9	2.04	134.8	239.6
TM3150-30	3150	200	0.9	347.9	96.8	4.33	0.76	0.9	2.02	146.6	242.1
TM3550-30	3550	200	0.9	393.3	96.5	4.44	0.89	0.9	1.92	126.8	268.1
TM4000-30	4000	200	0.9	442.6	96.6	4.58	0.91	0.93	1.95	138.8	271.2
TM4500-30	4500	200	0.9	497.3	96.7	4.94	0.91	0.93	1.95	155.5	282.6
TM5000-30	5000	200	0.9	552	96.8	5.15	0.99	1.07	2.08	169.1	269.6
TM5600-30	5600	200	0.9	616.4	97.1	5.15	0.94	1.11	2.1	185.2	278.1
TM6300-30	6300	200	0.9	692	97.3	3.98	0.81	0.84	1.84	162.6	324.9
TM7100-30	7100	200	0.9	779.3	97.4	3.85	0.77	0.82	1.82	177.1	331.1
TM8000-30	8000	200	0.9	876.2	97.6	3.8	0.7	0.84	1.8	195.1	342.7
TM800-32	800	187.5	0.9	184	95	4.32	0.69	0.87	2.1	86.3	246.8
TM1250-32	1250	187.5	0.9	241.9	95.6	4.66	0.78	0.99	1.92	91.2	252.3
TM2000-32	2000	187.5	0.9	385.4	96.1	4.47	0.76	0.92	1.99	105.4	277.5
TM1000-36	1000	166.7	0.9	241.9	95.3	4.92	0.84	1.02	1.95	86.4	255.6
TM1600-36	1600	166.7	0.9	309.3	96.2	4.57	0.8	0.92	1.86	96.1	263.2
TM2000-36	2000	166.7	0.9	384.2	96.4	4.43	0.81	0.94	1.88	100.6	268.9

注: TMW 系列 6kV 的技术参数与 TM 系列 6kV 相同。Remark: For 6KV motors, the technical data of TMW and TM series is the same.

5.3 TMQ 系列同步电动机技术数据表 (6kV、50Hz)

5.3 Technical data (6kV, 50Hz)

型号 Type	额定功率 Rated Output (kW)	同步转速 Synchronous speed (r/min)	功率因数 Power Factor	电流 Current (A)	效率 Efficiency %	起动电流 倍数 Starting Current Multiple (Ist/In)	起动转矩 倍数 Starting Torque Multiple (Mst/Mn)	牵入转矩 倍数 Pull-in Torque Multiple (Mpi/Mn)	失步转矩 倍数 Step out Torque Multiple (Mm/Mn)	励磁电压 Excitation Voltage (V)	励磁电流 Excitation Current (A)
TMQ400-32	400	187.5	0.9	47	91.3	7	2.01	1.07	3.07	85	171
TMQ500-36	500	187.5	0.9	58	92.3	6.7	2.03	1.07	3.09	81	182
TMQ630-36	630	167	0.9	72	93.4	7	1.85	1.09	2.67	86	173
TMQ800-36	800	167	0.9	91	93.7	6.7	1.72	1.06	2.54	98	178
TMQ1000-36	1000	167	0.9	69	93.1	5.88	1.77	1.12	2.32	75	257
TMQ1250-36	1250	167	0.9	142	94.4	7.31	1.83	1.2	2.62	96	275
TMQ1250-40	1250	150	0.9	143	93.5	6.53	1.71	1.06	2.72	122	276

TM、TMW系列磨煤机用高压同步电动机

TM、TMW Series HV Synchronous Motor

5 技术参数 Technical Data Table

5.2 TM、TMW 系列同步电动机技术数据 (10kV、50Hz)

5.2 Technical data (10kV、50Hz)

型号 Type	额定功率 Rated Output (kW)	同步转速 Synchronous speed (r/min)	功率因数 Power Factor	电流 Current (A)	效率 Efficiency %	起动电流 倍数 Starting Current Multiple (Ist/In)	起动转矩 倍数 Starting Torque Multiple (Mst/Mn)	牵入转矩 倍数 Pull-in Torque Multiple (Mpi/Mn)	失步转矩 倍数 Step out Torque Multiple (Mm/Mn)	励磁电压 Excitation Voltage (V)	励磁电流 Excitation Current (A)
TM630-30	630	200	0.9	42.9	94.2	3.91	0.62	0.72	2.32	72.6	236.3
TM800-30	800	200	0.9	54.2	94.7	4.07	0.62	0.78	2.29	86.4	226.2
TM1000-30	1000	200	0.9	67.4	95.2	3.74	0.57	0.74	2.13	73.1	239.9
TM1250-30	1250	200	0.9	83.8	95.6	3.77	0.57	0.74	2.14	76.6	254
TM1600-30	1600	200	0.9	107	95.9	3.72	0.55	0.74	2.1	91.8	259.2
TM1800-30	1800	200	0.9	120.2	96.1	3.96	0.58	0.8	2.16	100.4	263.7
TM2000-30	2000	200	0.9	133.3	96.2	4.3	0.63	0.87	2.31	111	272.6
TM2240-30	2240	200	0.9	149.7	96	5.13	0.89	1.05	2.31	120.7	232.2
TM2500-30	2500	200	0.9	166.7	96.2	4.92	0.84	1.02	2.21	128.6	228.5
TM2800-30	2800	200	0.9	186.5	96.3	4.82	0.82	1	2.17	138.9	229.4
TM3150-30	3150	200	0.9	209.5	96.5	4.86	0.81	1.01	2.16	151.2	233.2
TM3550-30	3550	200	0.9	236.5	96.3	4.9	0.95	1	2.01	129.4	252.9
TM4000-30	4000	200	0.9	266.1	96.4	5.07	0.98	1.04	2.07	142.6	259.2
TM4500-30	4500	200	0.9	299	96.4	5.3	1.01	1.1	2.11	157.2	260.2
TM5000-30	5000	200	0.9	331.8	96.5	5.84	1.11	1.22	2.3	179.3	269.2
TM5600-30	5600	200	0.9	370.6	96.9	6.19	1.1	1.34	2.53	207.9	295.1
TM6300-30	6300	200	0.9	416.2	97.1	4.48	0.84	0.98	1.88	165.4	309.3
TM7100-30	7100	200	0.9	468.6	97.2	4.68	0.97	0.97	1.95	184.0	323.3
TM8000-30	8000	200	0.9	527.5	97.3	4.82	0.99	1.01	1.92	200.0	313.4
TM800-32	800	187.5	0.9	184	95	4.32	0.69	0.87	2.1	86.3	246.8
TM1250-32	1250	187.5	0.9	241.9	95.6	4.66	0.78	0.99	1.92	91.2	252.3
TM2000-32	2000	187.5	0.9	385.4	96.1	4.47	0.76	0.92	1.99	105.4	277.5
TM1000-36	1000	166.7	0.9	241.9	95.3	4.92	0.84	1.02	1.95	86.4	255.6
TM1600-36	1600	166.7	0.9	309.3	96.2	4.57	0.80	0.92	1.86	96.1	263.2
TM2000-36	2000	166.7	0.9	384.2	96.4	4.43	0.81	0.94	1.88	100.6	268.9

注: TMW 系列 10kV 的技术参数与 TM 系列 10kV 相同

Remark: For 10KV motors, the technical data of TMW and TM series is the same.

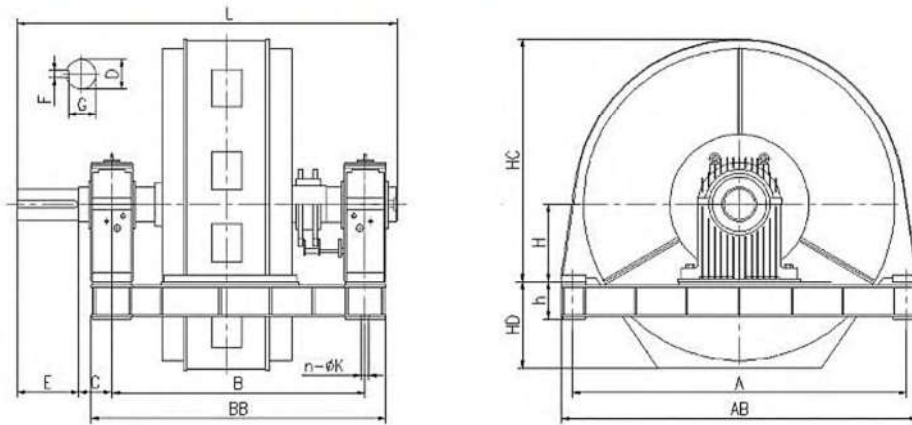
5.4 TMQ 系列同步电动机技术数据表 (10kV、50Hz)

5.4 Technical data (10kV、50Hz)

型号 Type	额定功率 Rated Output (kW)	同步转速 Synchronous speed (r/min)	功率因数 Power Factor	电流 Current (A)	效率 Efficiency %	起动电流 倍数 Starting Current Multiple (Ist/In)	起动转矩 倍数 Starting Torque Multiple (Mst/Mn)	牵入转矩 倍数 Pull-in Torque Multiple (Mpi/Mn)	失步转矩 倍数 Step out Torque Multiple (Mm/Mn)	励磁电压 Excitation Voltage (V)	励磁电流 Excitation Current (A)
TMQ800-36	800	167	0.9	55	92.8	6.5	1.73	1.03	2.5	97	176
TMQ1000-36	1000	167	0.9	69	93.1	5.88	1.81	1.14	2.32	75	257
TMQ1250-36	1250	167	0.9	85	93.8	6.42	1.75	1.06	2.38	88	252

6.1 TM 列矿山球磨机用高压三相同步电动机外形及安装尺寸

6.1 Outline drawing of TM Series synchronous motor for mill



型号 Type	A	AB	B	BB	C	D	E	F	G	h	H	HC	HD	n-K	L	重量 Weight (kg)
TM630-30 6KV	2420	2600	1650	1950	250	220	350	50	203	250	630	1850	580	4-42	2620	12300
TM630-30 10KV	2420	2600	1650	1950	250	220	350	50	203	250	630	1850	580	4-42	2620	13100
TM800-30 6KV	2420	2600	1680	2000	250	220	350	50	203	250	630	1850	580	4-42	2650	14400
TM800-30 10KV	2420	2600	1700	2020	250	220	350	50	203	250	630	1850	580	4-42	2670	15200
TM1000-30 6KV	2700	2900	1800	2145	270	250	400	56	230	300	630	1980	700	4-48	2835	15800
TM1000-30 10KV	2700	2900	1850	2195	270	250	400	56	230	300	630	1980	700	4-48	2885	16600
TM1250-30 6KV	2700	2900	1850	2195	270	250	400	56	230	300	630	1980	700	4-48	2885	19300
TM1250-30 10KV	2700	2900	1900	2245	270	250	400	56	230	300	630	1980	700	4-48	2935	20100
TM1600-30 6KV	2700	2900	1950	2295	300	280	450	63	260	300	630	1980	700	4-48	3035	22800
TM1600-30 10KV	2700	2900	2000	2345	300	280	450	63	260	300	630	1980	700	4-48	3085	23900
TM1800-30 6KV	2700	2900	2000	2345	300	280	450	63	260	300	630	1980	700	4-48	3085	24600
TM1800-30 10KV	2700	2900	2050	2395	300	280	450	63	260	300	630	1980	700	4-48	3135	25700
TM2000-30 6KV	2700	2900	2068	2413	300	280	450	63	260	300	630	1980	700	4-48	3153	26500
TM2000-30 10KV	2700	2900	2100	2445	300	280	450	63	260	300	630	1980	700	4-48	3185	27700
TM2240-30 6KV	3300	3560	2000	2420	350	320	500	70	298	350	630	2300	1000	6-56	3240	28500
TM2240-30 10KV	3300	3560	2060	2480	350	320	500	70	298	350	630	2300	1000	6-56	3300	29700
TM2500-30 6KV	3300	3560	2030	2450	350	320	500	70	298	350	630	2300	1000	6-56	3270	30700

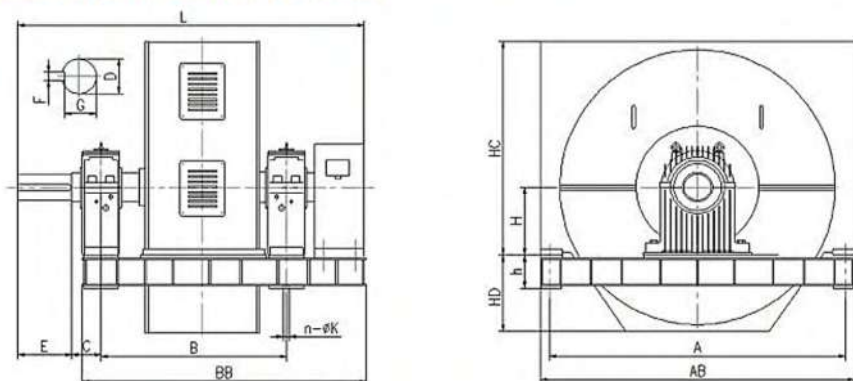
TM、TMW系列磨煤机用高压同步电动机

TM、TMW Series HV Synchronous Motor

型号 Type	A	AB	B	BB	C	D	E	F	G	h	H	HC	HD	n-K	L	重量 Weight (kg)
TM2500-30 10KV	3300	3560	2110	2500	350	320	500	70	298	350	630	2300	1000	6-56	3350	31900
TM2800-30 6KV	3300	3560	2110	2500	350	320	500	70	298	350	630	2300	1000	6-56	3350	33100
TM2800-30 10KV	3300	3560	2160	2550	350	320	500	70	298	350	630	2300	1000	6-56	3400	34400
TM3150-30 6KV	3300	3560	2160	2550	350	320	500	70	298	350	630	2300	1000	6-56	3400	35800
TM3150-30 10KV	3300	3560	2210	2600	350	320	500	70	298	350	630	2300	1000	6-56	3450	37000
TM3550-30 6KV	3700	4000	2120	2540	420	380	600	80	355	450	630	2500	1200	8-56	3430	38800
TM3550-30 10KV	3700	4000	2170	2590	420	380	600	80	355	450	630	2500	1200	8-56	3480	40000
TM4000-30 6KV	3700	4000	2170	2590	420	380	600	80	355	450	630	2500	1200	8-56	3480	42000
TM4000-30 10KV	3700	4000	2220	2640	420	380	600	80	355	450	630	2500	1200	8-56	3530	43700
TM4500-30 6KV	3700	4000	2220	2640	420	380	600	80	355	450	630	2500	1200	8-56	3530	45400
TM4500-30 10KV	3700	4000	2290	2710	420	380	600	80	355	450	630	2500	1200	8-56	3600	47500
TM5000-30 6KV	3700	4000	2320	2740	420	380	600	80	355	450	630	2500	1200	8-56	3630	49200
TM5000-30 10KV	3700	4000	2370	2790	420	380	600	80	355	450	630	2500	1200	8-56	3680	51400
TM5600-30 6KV	3700	4000	2370	2790	420	380	600	80	355	450	630	2500	1200	8-56	3680	51400
TM5600-30 10KV	3700	4000	2420	2840	420	380	600	80	355	450	630	2500	1200	8-56	3730	53100
TM6300-30 6KV	4100	4400	2320	2840	470	450	680	100	419	450	630	2700	1400	8-63	3780	55200
TM6300-30 10KV	4100	4400	2370	2890	470	450	680	100	419	450	630	2700	1400	8-63	3830	57300
TM7100-30 6KV	4100	4400	2370	2890	470	450	680	100	419	450	630	2700	1400	8-63	3830	57500
TM7100-30 10KV	4100	4400	2420	2940	470	450	680	100	419	450	630	2700	1400	8-63	3880	59400
TM8000-30 6KV	4100	4400	2420	2940	470	450	680	100	419	450	630	2700	1400	8-63	3880	59600
TM8000-30 10KV	4100	4400	2470	2990	470	450	680	100	419	450	630	2700	1400	8-63	3930	61700
TM800-32 6KV	2420	2600	1680	2000	250	220	350	50	203	250	630	1850	580	4-42	2650	14900
TM800-32 10KV	2420	2600	1700	2020	250	220	350	50	203	250	630	1850	580	4-42	2670	15800
TM1250-32 6KV	2700	2900	1850	2195	270	250	400	56	230	300	630	1980	700	4-48	2885	20100
TM1250-32 10KV	2700	2900	1900	2245	270	250	400	56	230	300	630	1980	700	4-48	2935	21000
TM2000-32 6KV	2700	2900	2068	2413	300	280	450	63	260	300	630	1980	700	4-48	3153	27500
TM2000-32 10KV	2700	2900	2100	2445	300	280	450	63	260	300	630	1980	700	4-48	3185	28800
TM1000-36 6KV	2700	2900	1850	2195	270	250	400	56	230	300	630	1980	700	4-48	2885	19800
TM1000-36 10KV	2700	2900	1900	2245	270	250	400	56	230	300	630	1980	700	4-48	2935	21200
TM1600-36 6KV	2700	2900	2068	2413	300	280	450	63	260	300	630	1980	700	4-48	3153	26400
TM1600-36 10KV	2700	2900	2100	2445	300	280	450	63	260	300	630	1980	700	4-48	3185	27700
TM2000-36 6KV	3300	3560	2030	2450	350	320	500	70	298	350	630	2300	1000	6-56	3270	30000
TM2000-36 10KV	3300	3560	2110	2500	350	320	500	70	298	350	630	2300	1000	6-56	3350	31600

6.2 TMW 系列矿山球磨机用无刷励磁高压三相同步电动机外形图

6.2 TMW Series brushless synchronous motor for mill



型号 Type	A	AB	B	BB	C	D	E	F	G	h	H	HC	HD	n-K	L	重量 Weight (kg)
TMW630-30 6KV	2420	2600	1650	2750	250	220	350	50	203	250	630	1850	580	4-42	3420	13300
TMW630-30 10KV	2420	2600	1650	2750	250	220	350	50	203	250	630	1850	580	4-42	3420	14100
TMW800-30 6KV	2420	2600	1680	2800	250	220	350	50	203	250	630	1850	580	4-42	3450	15400
TMW800-30 10KV	2420	2600	1700	2820	250	220	350	50	203	250	630	1850	580	4-42	3470	16200
TMW1000-30 6KV	2700	2900	1800	2945	270	250	400	56	230	300	630	1980	700	4-48	3635	17300
TMW1000-30 10KV	2700	2900	1850	2995	270	250	400	56	230	300	630	1980	700	4-48	3685	18100
TMW1250-30 6KV	2700	2900	1850	2995	270	250	400	56	230	300	630	1980	700	4-48	3685	20800
TMW1250-30 10KV	2700	2900	1900	3045	270	250	400	56	230	300	630	1980	700	4-48	3735	21600
TMW1600-30 6KV	2700	2900	1950	3095	300	280	450	63	260	300	630	1980	700	4-48	3835	24300
TMW1600-30 10KV	2700	2900	2000	3145	300	280	450	63	260	300	630	1980	700	4-48	3885	25400
TMW1800-30 6KV	2700	2900	2000	3145	300	280	450	63	260	300	630	1980	700	4-48	3885	26100
TMW1800-30 10KV	2700	2900	2050	3195	300	280	450	63	260	300	630	1980	700	4-48	3935	27200
TMW2000-30 6KV	2700	2900	2068	3213	300	280	450	63	260	300	630	1980	700	4-48	4053	28000
TMW2000-30 10KV	2700	2900	2100	3245	300	280	450	63	260	300	630	1980	700	4-48	3985	29200
TMW2240-30 6KV	3300	3560	2000	3220	350	320	500	70	298	350	630	2300	1000	6-56	4040	30000
TMW2240-30 10KV	3300	3560	2060	3280	350	320	500	70	298	350	630	2300	1000	6-56	4100	31200
TMW2500-30 6KV	3300	3560	2030	3250	350	320	500	70	298	350	630	2300	1000	6-56	4070	3220
TMW2500-30 10KV	3300	3560	2110	3300	350	320	500	70	298	350	630	2300	1000	6-56	4150	33400
TMW2800-30 6KV	3300	3560	2110	3300	350	320	500	70	298	350	630	2300	1000	6-56	4150	34600
TMW2800-30 10KV	3300	3560	2160	3350	350	320	500	70	298	350	630	2300	1000	6-56	4200	359000

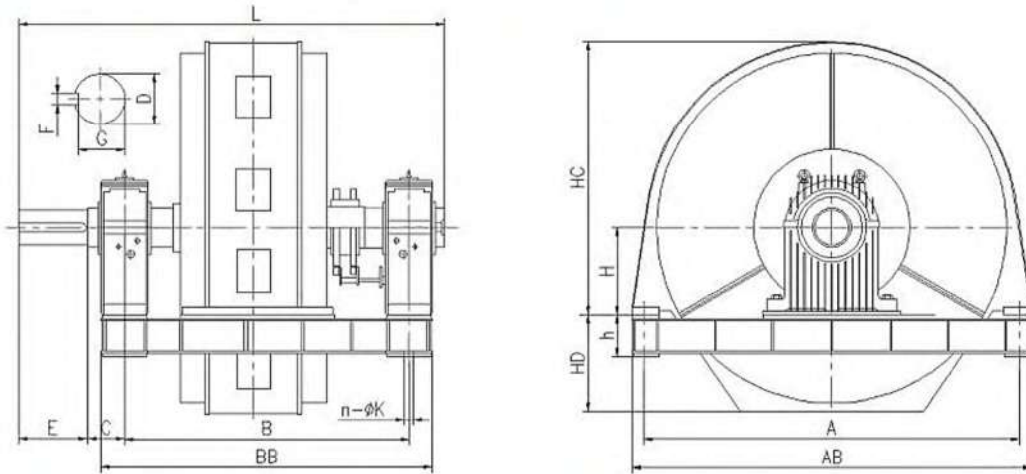
TM、TMW系列磨煤机用高压同步电动机

TM、TMW Series HV Synchronous Motor

型号 Type	A	AB	B	BB	C	D	E	F	G	h	H	HC	HD	n-K	L	重量 Weight (kg)
TMW3150-30 6KV	3300	3560	2160	3350	350	320	500	70	298	350	630	2300	1000	6-56	4200	37300
TMW3150-30 10KV	3300	3560	2210	3400	350	320	500	70	298	350	630	2300	1000	6-56	4250	38500
TMW3550-30 6KV	3700	4000	2120	3440	420	380	600	80	355	450	630	2500	1200	8-56	4230	40300
TMW3550-30 10KV	3700	4000	2170	3490	420	380	600	80	355	450	630	2500	1200	8-56	4280	41500
TMW4000-30 6KV	3700	4000	2170	3390	420	380	600	80	355	450	630	2500	1200	8-56	4280	43500
TMW4000-30 10KV	3700	4000	2220	3440	420	380	600	80	355	450	630	2500	1200	8-56	4330	45200
TMW4500-30 6KV	3700	4000	2220	3440	420	380	600	80	355	450	630	2500	1200	8-56	4330	46900
TMW4500-30 10KV	3700	4000	2290	3510	420	380	600	80	355	450	630	2500	1200	8-56	4400	49000
TMW5000-30 6KV	3700	4000	2320	3540	420	380	600	80	355	450	630	2500	1200	8-56	4430	50700
TMW5000-30 10KV	3700	4000	2370	3590	420	380	600	80	355	450	630	2500	1200	8-56	4480	52900
TM5600-30 6KV	3700	4000	2370	3590	420	380	600	80	355	450	630	2500	1200	8-56	4480	52600
TM5600-30 10KV	3700	4000	2420	3640	420	380	600	80	355	450	630	2500	1200	8-56	4530	54300
TM6300-30 6KV	4100	4400	2320	3640	470	450	680	100	419	450	630	2700	1400	8-63	4580	56400
TM6300-30 10KV	4100	4400	2370	3690	470	450	680	100	419	450	630	2700	1400	8-63	4630	58500
TM7100-30 6KV	4100	4400	2370	3690	470	450	680	100	419	450	630	2700	1400	8-63	4630	58700
TM7100-30 10KV	4100	4400	2420	3740	470	450	680	100	419	450	630	2700	1400	8-63	4680	60600
TM8000-30 6KV	4100	4400	2420	3740	470	450	680	100	419	450	630	2700	1400	8-63	4680	60800
TM8000-30 10KV	4100	4400	2470	3790	470	450	680	100	419	450	630	2700	1400	8-63	4730	62900
TMW800-32 6KV	2420	2600	1680	2800	250	220	350	50	203	250	630	1850	580	4-42	3450	15900
TMW800-32 10KV	2420	2600	1700	2820	250	220	350	50	203	250	630	1850	580	4-42	3470	16800
TMW1250-32 6KV	2700	2900	1850	2995	270	250	400	56	230	300	630	1980	700	4-48	3685	21600
TMW1250-32 10KV	2700	2900	1900	3045	270	250	400	56	230	300	630	1980	700	4-48	3735	22500
TMW2000-32 6KV	2700	2900	2068	3213	300	280	450	63	260	300	630	1980	700	4-48	3953	29000
TMW2000-32 10KV	2700	2900	2100	3245	300	280	450	63	260	300	630	1980	700	4-48	3985	30300
TMW1000-36 6KV	2700	2900	1850	2995	270	250	400	56	230	300	630	1980	700	4-48	3785	21300
TMW1000-36 10KV	2700	2900	1900	3045	270	250	400	56	230	300	630	1980	700	4-48	3735	22700
TMW1600-36 6KV	2700	2900	2068	3213	300	280	450	63	260	300	630	1980	700	4-48	3953	27900
TMW1600-36 10KV	2700	2900	2100	3245	300	280	450	63	260	300	630	1980	700	4-48	3985	29200
TMW2000-36 6KV	3300	3560	2030	3250	350	320	500	70	298	350	630	2300	1000	6-56	4070	31500
TMW2000-36 10KV	3300	3560	2110	3300	350	320	500	70	298	350	630	2300	1000	6-56	4150	33100

6.3 TMQ 系列高启动转矩同步电动机外形及安装尺寸

6.3 Outline drawing of TMQ series high starting torque synchronous motor



型号 Type	A	AB	B	BB	C	D	E	F	G	H	h	HC	HD	n-K	L
TMQ400-32 6KV	2750	3040	1450	1810	240	200	350	45	185	630	350	1980	720	4-48	2300
TMQ500-36 6KV	2750	3040	1450	1810	240	200	350	45	185	630	350	1980	720	4-48	2300
TMQ630-36 6KV	2750	3040	1570	1990	300	220	350	50	203	630	350	1980	720	4-48	2480
TMQ630-36 6KV	3200	3590	1500	1920	270	220	350	50	203	630	350	2230	970	4-48	2380
TMQ800-36 6KV	3200	3590	1600	2020	260	250	400	56	230	630	350	2230	970	4-48	2520
TMQ800-36 10KV	3200	3590	1820	2240	260	250	400	56	230	630	350	2230	970	4-48	2740
TMQ1000-36 6KV	3200	3590	1700	2155	300	280	470	63	260	630	350	2230	970	4-48	2730
TMQ1250-40 6KV	3200	3590	1700	2155	300	280	470	63	260	630	350	2230	970	4-48	2730

TM、TMW系列磨煤机用高压同步电动机

TM、TMW Series HV Synchronous Motor

7 订货须知

请在订货时注明以下参数

电机型号 (举例)	TM2500-30
额定功率 (kW)	2500
额定电压 (kV)	6
极 数	30
额定频率 (Hz)	50
旋转方向	顺时针 (从磨机看电机方向)
防护等级	IP20
冷却方式	IC01
安装方式	IM7311
工作定额	S1

特别说明

随着企业技术进步及相关国家标准修订, 涉及技术参数及安装尺寸调整, 恕不另行通知! 订货时以供需双方签订的外形图为准。

7 Required Data

The following data is required for type selection

Type of motor	TM2500-30
Rated power(kW)	2500
Rated voltage (KV)	6
Number of poles	30
rated frequency(Hz)	50
Direction of rotation	Clockwise (View from mill machine to motor)
Protection degree	IP20
Type of cooling	IC01
Type of mounting	IM7311
Duty type	S1

Declaration

The information provided in this Brochure contains merely general descriptions, characteristics of performance or dimensions which in case of actual use do not always apply as described or which may change as a result of further development of the products or IEC/GB standards.



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