

Y、YKS 系列 6kV（机座号 710-1000）大型高压三相异步电动机的功率等级、电气性能和安装尺寸及公差均符合国家标准 GB755《旋转电机定额和性能》、国际电工委员会标准 IEC34-1《旋转电机定额和性能》和国家行业标准 GB/T13957《大型高压三相异步电动机基本系列技术条件》等。

The power degree,electric property,mounting size and tolerance of the Y、YKS series,6kV,(The frame No.710-1000),large size three-phase asynchronous motors are in accordance with the National standard GB755《The rate and property of the rotating electric motor》;The international Electric committee standard IEC 34-1《The rate and property of the rotating electric motor and the National》Trade standard GB/T13957《The specification for the fundamental series of large size ,three phase asynchronous motor》etc.

2、结构说明：

定子采用 F 级绝缘和外压装结构。整个定子真空压力浸 F 级无溶剂漆（VPI），具有良好的电性能和防潮能力。

鼠笼转子导条用铜排制成，采用可靠的焊接工艺。转轴一般制成单轴伸，亦可根据用户需要制成双轴伸。

轴承采用端盖式球面滑动轴承，具有负荷能力强，检修方便的优点。

主接线盒按德国 DIN 标准设计防护等级为 IP54. 一般装于电机右侧（从轴伸端看），也可按用户要求装于电机左侧。当电机功率为 2000kW 及以上时，在与主出线盒电动机相对的另一侧还备有副出线盒，用于引出定子三相绕组中性点。

电机定子绕组、以及每个轴承均装有电阻测温元件供监控电机温度用。

2 Structure description

The stator windings are F grade insulation and an outer press mounting construction,The whole stator has been treated by VPI without solution lacquer.It is to ensure for a good electric property and moisture protection ability.

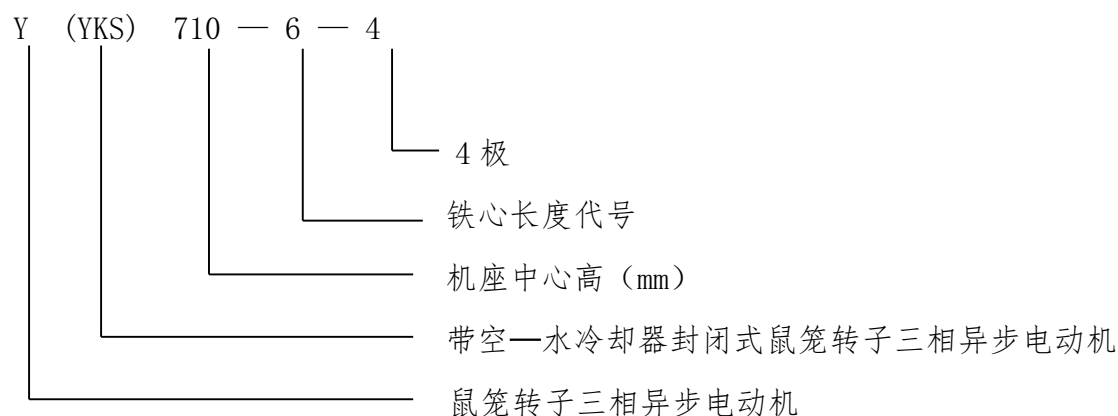
The squirrel cage rotor is made of copper busbar and a reliable weld technology has been adopted ,the shaft ordinary is made up a single extension ,but by require of customers we can provide the double extension mode ,the end cover spherical sliding mode bearing is adopted ,it has strong loading capability and is convenient for maintenance.

The main outer box is designed in accordance with German DIN standard ,the degree

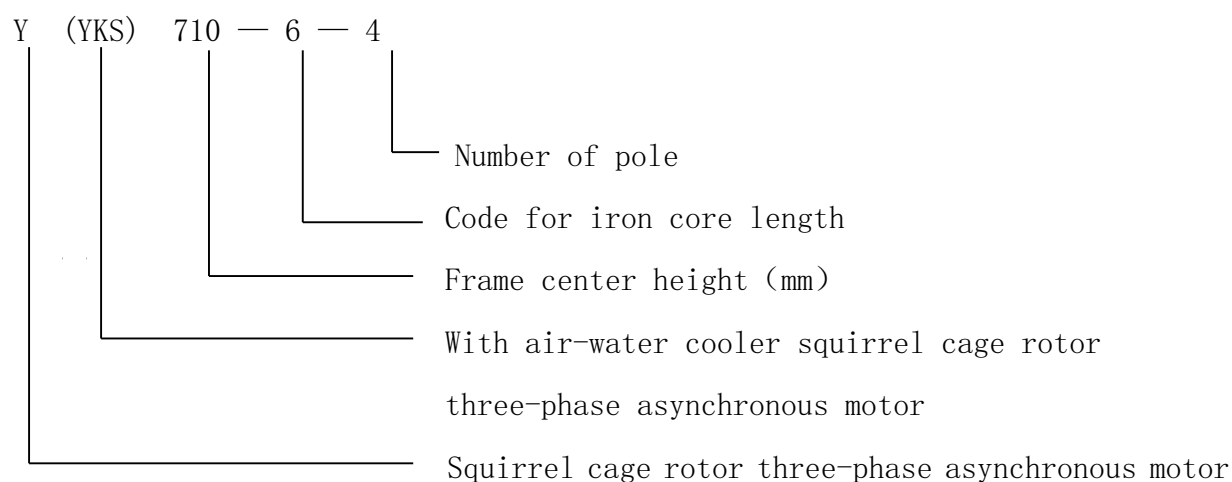
of protection is IP54 This one an ordinary way to be located at the right side (Viewed from the end of shaft -extension), by the require of customer ,it may also be located at left side ,when the motor's power in 2000kW and a bove at the other side faced to the main outler box,there is a sub-outlet-box,it is used for the neutral line of three phase windings outlet.

Some thermal resistanece temperature testing elements have been inserted into stator windings and bearings for electric motor's temperature raise monitor.

3、型号说明:



3、 The implication of the symbol



型 号	额定功率 (kW)	定子电流 (A)	同步转速 (r/min)	效率 (%)	功率 因数 Cos Φ	最大转矩	堵转转矩	堵转电流	负载转动 惯量 kg.m ²	重 量 (kg)	
						额定转矩 $\frac{T_m}{T_n}$	额定转矩 $\frac{T_{st}}{T_n}$	额定电流 $\frac{I_{st}}{I_n}$		Y	YKS
Y7101-4	3150	362	1500	96.3	0.87	1.8	0.5	6.5	530	10900	11500
Y7102-4	3550	408	1500	96.3	0.87	1.8	0.5	6.5	588	11400	12000
Y7103-4	4000	459	1500	96.4	0.87	1.8	0.5	6.5	589	11900	12500
Y7104-4	4500	516	1500	96.4	0.87	1.8	0.5	6.5	589	12400	13000
Y8001-4	5000	567	1500	96.5	0.88	1.8	0.5	6.5	695	15800	16800
Y8002-4	5600	635	1500	96.5	0.88	1.8	0.5	6.5	810	16600	17600
Y8003-4	6300	713	1500	96.6	0.88	1.8	0.5	6.5	935	17400	18400
Y9001-4	7100	803	1500	96.7	0.88	1.8	0.5	6.5	1180	24400	25700
Y9002-4	8000	904	1500	96.8	0.88	1.8	0.5	6.5	1230	25700	27000
Y9003-4	9000	1016	1500	96.9	0.88	1.8	0.5	6.5	1280	27000	28300
Y7101-6	2240	260	1000	96.0	0.86	1.8	0.6	6.5	1911	10800	11400
Y7102-6	2500	291	1000	96.1	0.86	1.8	0.6	6.5	2156	11300	11900
Y7103-6	2800	326	1000	96.1	0.86	1.8	0.6	6.5	2499	11800	12400
Y7104-6	3150	366	1000	96.2	0.86	1.8	0.6	6.5	2891	12300	12900
Y8001-6	3550	413	1000	96.2	0.86	1.8	0.6	6.5	3080	15200	16200
Y8002-6	4000	465	1000	96.3	0.86	1.8	0.6	6.5	3450	16000	17000
Y8003-6	4500	523	1000	96.3	0.86	1.8	0.6	6.5	3550	16800	17800
Y8004-6	5000	580	1000	96.4	0.86	1.8	0.6	6.5	3580	17600	18600
Y9001-6	5600	643	1000	96.4	0.87	1.8	0.6	6.5	3780	24300	25600
Y9002-6	6300	722	1000	96.5	0.87	1.8	0.6	6.5	4200	25600	26900
Y9003-6	7100	813	1000	96.6	0.87	1.8	0.6	6.5	4230	26900	28200
Y10001-6	8000	915	1000	96.7	0.87	1.8	0.6	6.5	4250	28500	29800
Y10002-6	9000	1028	1000	96.8	0.87	1.8	0.6	6.5	5100	30000	31300
Y10003-6	10000	1141.4	1000	96.9	0.87	1.8	0.6	6.5	6200	31500	32800
Y7101-8	1800	214	750	95.4	0.85	1.8	0.6	6.5	3038	11200	11800
Y7102-8	2000	237	750	95.5	0.85	1.8	0.6	6.5	3085	11700	12300
Y7103-8	2240	265	750	95.6	0.85	1.8	0.6	6.5	3136	12200	12800
Y8001-8	2500	296	750	95.7	0.85	1.8	0.6	6.5	5200	15200	16200
Y8002-8	2800	331	750	95.8	0.85	1.8	0.6	6.5	5450	16000	17000
Y8003-8	3150	372	750	95.8	0.85	1.8	0.6	6.5	5500	16800	17800
Y8004-8	3550	419	750	95.9	0.85	1.8	0.6	6.5	5600	17600	18600
Y9001-8	4000	466	750	96.0	0.86	1.8	0.6	6.5	5700	24100	25400
Y9002-8	4500	524	750	96.1	0.86	1.8	0.6	6.5	5800	25400	26700
Y9003-8	5000	582	750	96.2	0.86	1.8	0.6	6.5	5900	26700	28000
Y10001-8	5600	651	750	96.2	0.86	1.8	0.6	6.5	6000	27500	28800
Y10002-8	6300	732	750	96.3	0.86	1.8	0.6	6.5	6400	29000	30300
Y10003-8	7100	824	750	96.4	0.86	1.8	0.6	6.5	6800	30500	31800
Y10004-8	8000	928	750	96.5	0.86	1.8	0.6	6.5	7100	32000	33300

注：表中性能数据为保证值。Whole data in table are guarantee values.

Y(IP23)、YKS (IP44) 6kV 系列大型电动机技术数据
Y(IP23) 、YKS (IP44) 6kV series large sized asynchronous electric motor technic data

型 号	额定功率 (kW)	定子电流 (A)	同步转速 (r/min)	效率 (%)	功率 因数 CosΦ	最大转矩	堵转转矩	堵转电流	负载转动 惯量 kg.m ²	重 量 (kg)	
						额定转矩 $\frac{T_m}{T_n}$	额定转矩 $\frac{T_{st}}{T_n}$	额定电流 $\frac{I_{st}}{I_n}$		Y	YKS
Y7101-10	1600	195	600	95.0	0.83	1.8	0.6	6.0	4802	11100	11700
Y7102-10	1800	219	600	95.1	0.83	1.8	0.6	6.0	5547	11600	12200
Y7103-10	2000	244	600	95.2	0.83	1.8	0.6	6.0	6664	12100	12700
Y8001-10	2240	272	600	95.3	0.83	1.8	0.6	6.0	7600	15500	26500
Y8002-10	2500	304	600	95.4	0.83	1.8	0.6	6.0	8500	16300	27800
Y8003-10	2800	340	600	95.5	0.83	1.8	0.6	6.0	9200	17100	29100
Y9001-10	3150	377.5	600	95.6	0.84	1.8	0.6	6.0	10900	23900	25200
Y9002-10	3550	425	600	95.7	0.84	1.8	0.6	6.0	11000	25200	26500
Y9003-10	4000	478	600	95.8	0.84	1.8	0.6	6.0	11000	26500	27800
Y9004-10	4500	538	600	95.8	0.84	1.8	0.6	6.0	11000	27800	29100
Y10001-10	5000	597	600	95.9	0.84	1.8	0.6	6.0	11200	27300	28600
Y10002-10	5600	669	600	95.9	0.84	1.8	0.6	6.0	12500	28800	30100
Y10003-10	6300	752	600	96.0	0.84	1.8	0.6	6.0	14300	30300	31600
Y10004-10	7100	847	600	96.0	0.84	1.8	0.6	6.0	16000	31800	33100
Y7101-12	1120	144	500	94.5	0.79	1.8	0.6	6.0	6272	11000	11600
Y7102-12	1250	161	500	94.6	0.79	1.8	0.6	6.0	7350	11500	12100
Y7103-12	1400	180	500	94.7	0.79	1.8	0.6	6.0	8330	12000	12600
Y8001-12	1600	203	500	94.7	0.80	1.8	0.6	6.0	10500	15000	16000
Y8002-12	1800	228	500	94.8	0.80	1.8	0.6	6.0	11500	15700	16700
Y8003-12	2000	253	500	94.9	0.80	1.8	0.6	6.0	12000	16400	17400
Y8004-12	2240	284	500	95.0	0.80	1.8	0.6	6.0	12500	17100	18100
Y9001-12	2500	312	500	95.2	0.81	1.8	0.6	6.0	12800	24800	26100
Y9002-12	2800	349	500	95.3	0.81	1.8	0.6	6.0	13400	26000	27300
Y9003-12	3150	392	500	95.4	0.81	1.8	0.6	6.0	14200	27200	28500
Y10001-12	3550	442	500	95.5	0.81	1.8	0.6	6.0	14500	27100	28400
Y10002-12	4000	497	500	95.6	0.81	1.8	0.6	6.0	16500	28600	29900
Y10003-12	4500	559	500	95.6	0.81	1.8	0.6	6.0	18500	30100	31400
Y10004-12	5000	621	500	95.7	0.81	1.8	0.6	6.0	21000	31600	32900
Y7101-16	630	89	375	93.1	0.73	1.8	0.6	6.0	9310	10400	11000
Y7102-16	710	100	375	93.3	0.73	1.8	0.6	6.0	9650	10900	11500
Y7103-16	800	113	375	93.4	0.73	1.8	0.6	6.0	9996	11400	12000
Y7104-16	900	127	375	93.5	0.73	1.8	0.6	6.0	10780	11900	12500
Y8001-16	1000	139	375	93.6	0.74	1.8	0.6	6.0	11200	15000	16000
Y8002-16	1120	155	375	93.7	0.74	1.8	0.6	6.0	12100	15700	16700
Y8003-16	1250	173	375	93.8	0.74	1.8	0.6	6.0	13000	16400	17400
Y8004-16	1400	194	375	93.9	0.74	1.8	0.6	6.0	14800	17100	18100
Y9001-16	1600	218	375	94.0	0.75	1.8	0.6	6.0	18000	24800	26000
Y9002-16	1800	245	375	94.1	0.75	1.8	0.6	6.0	19500	26000	27200
Y9003-16	2000	272	375	94.2	0.75	1.8	0.6	6.0	21000	27200	28500
Y10001-16	2240	301	375	94.3	0.75	1.8	0.6	6.0	22000	28400	29700
Y10002-16	2500	340	375	94.4	0.75	1.8	0.6	6.0	23000	29900	31200
Y10003-16	2800	380	375	94.5	0.75	1.8	0.6	6.0	24500	31400	32700

注：表中性能数据为保证值。Whole data in table are guarantee values.

YKK 6kV 系列大型电动机技术数据

YKK 6kV series large sized asynchronous electric motor technic data

型 号	额定功率 (kW)	定子电流 (A)	同步转速 (r/min)	效率 (%)	功率 因数 Cos Φ	最大转矩	堵转转矩	堵转电流	重 量 (kg)
						额定转矩 $\frac{T_m}{T_n}$	额定转矩 $\frac{T_{st}}{T_n}$	额定电流 $\frac{I_{st}}{I_n}$	
YKK7101-4	2500	270.8	1500	96.67	0.919	1.8	0.5	6.5	12600
YKK7102-4	2800	302.6	1500	96.68	0.921	1.8	0.5	6.5	13100
YKK7103-4	3150	339	1500	96.72	0.924	1.8	0.5	6.5	13600
YKK7104-4	3550	382	1500	96.71	0.925	1.8	0.5	6.5	14100
YKK8001-4	4000	449	1500	96.73	0.886	1.8	0.5	6.5	16450
YKK8002-4	4500	504	1500	96.77	0.888	1.8	0.5	6.5	17000
YKK8003-4	5000	558	1500	96.81	0.890	1.8	0.5	6.5	17700
YKK9001-4	5600	626	1500	96.57	0.891	1.8	0.5	6.5	21500
YKK9002-4	6300	701	1500	96.58	0.895	1.8	0.5	6.5	22800
YKK9003-4	7100	789	1500	96.62	0.896	1.8	0.5	6.5	23600
YKK7101-6	1800	199	1000	96.28	0.903	1.8	0.6	6.5	12500
YKK7102-6	2000	221	1000	96.40	0.903	1.8	0.6	6.5	13000
YKK7103-6	2240	247	1000	96.51	0.904	1.8	0.6	6.5	13500
YKK7104-6	2500	275	1000	96.56	0.906	1.8	0.6	6.5	14100
YKK8001-6	2800	322	1000	96.27	0.869	1.8	0.6	6.5	16500
YKK8002-6	3150	362	1000	96.31	0.869	1.8	0.6	6.5	17670
YKK8003-6	3550	406	1000	96.42	0.873	1.8	0.6	6.5	18120
YKK8004-6	4000	455	1000	96.49	0.877	1.8	0.6	6.5	18460
YKK9001-6	4500	511	1000	96.56	0.877	1.8	0.6	6.5	22800
YKK9002-6	5000	566	1000	96.68	0.879	1.8	0.6	6.5	23760
YKK9003-6	5600	631	1000	96.77	0.882	1.8	0.6	6.5	25000
YKK10001-6	6300	715	1000	96.66	0.878	1.8	0.6	6.5	32080
YKK10002-6	7100	806	1000	96.69	0.879	1.8	0.6	6.5	33800
YKK10003-6	8000	905	1000	96.72	0.882	1.8	0.6	6.5	34950
YKK7101-8	1400	161.5	750	95.87	0.870	1.8	0.6	6.5	12680
YKK7102-8	1600	184.0	750	95.93	0.872	1.8	0.6	6.5	13890
YKK7103-8	1800	206.4	750	96.12	0.873	1.8	0.6	6.5	14450
YKK8001-8	2000	235.3	750	95.68	0.855	1.8	0.6	6.5	16500
YKK8002-8	2240	259.7	750	96.73	0.858	1.8	0.6	6.5	17120
YKK8003-8	2500	292.4	750	95.78	0.859	1.8	0.6	6.5	18890
YKK8004-8	2800	325.8	750	95.81	0.863	1.8	0.6	6.5	19180
YKK9001-8	3150	366.9	750	95.82	0.862	1.8	0.6	6.5	22500
YKK9002-8	3550	413.0	750	95.84	0.863	1.8	0.6	6.5	23850
YKK9003-8	4000	465.3	750	95.85	0.863	1.8	0.6	6.5	24660
YKK10001-8	4500	518	750	96.15	0.871	1.8	0.6	6.5	32580
YKK10002-8	5000	575	750	96.23	0.875	1.8	0.6	6.5	33120
YKK10003-8	5600	645	750	96.35	0.877	1.8	0.6	6.5	34900
YKK10004-8	6300	725	750	96.42	0.880	1.8	0.6	6.5	35450

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YKK 6kV 系列大型电动机技术数据

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型 号	额定功率 (kW)	定子电 流 (A)	同步转速 (r/min)	效率 (%)	功率 因数 CosΦ	最大转矩	堵转转矩	堵转电流	重 量 (kg)
						额定转矩 $\frac{T_m}{T_n}$	额定转矩 $\frac{T_{st}}{T_n}$	额定电流 $\frac{I_{st}}{I_n}$	
YKK7101-10	1250	148.6	600	95.22	0.850	1.8	0.6	6.0	12800
YKK7102-10	1400	165.3	600	95.31	0.853	1.8	0.6	6.0	13250
YKK7103-10	1600	188.9	600	95.33	0.855	1.8	0.6	6.0	14300
YKK8001-10	1800	219.4	600	95.35	0.855	1.8	0.6	6.0	16800
YKK8002-10	2000	227.5	600	95.37	0.857	1.8	0.6	6.0	17500
YKK8003-10	2240	263.3	600	95.38	0.858	1.8	0.6	6.0	18000
YKK9001-10	2500	299.1	600	95.40	0.843	1.8	0.6	6.0	22800
YKK9002-10	2800	333.2	600	95.47	0.847	1.8	0.6	6.0	23580
YKK9003-10	3150	364.3	600	95.52	0.848	1.8	0.6	6.0	24500
YKK9004-10	3550	412.8	600	95.58	0.848	1.8	0.6	6.0	25570
YKK10001-10	4000	473	600	95.78	0.850	1.8	0.6	6.0	31870
YKK10002-10	4500	532	600	95.80	0.853	1.8	0.6	6.0	32920
YKK10003-10	5000	591	600	95.82	0.855	1.8	0.6	6.0	33055
YKK10003-10	5600	662	600	95.84	0.857	1.8	0.6	6.0	34890
YKK7101-12	900	111.9	500	94.55	0.818	1.8	0.6	6.0	11450
YKK7102-12	1000	124.3	500	94.58	0.819	1.8	0.6	6.0	12800
YKK7103-12	1120	139.8	500	94.59	0.823	1.8	0.6	6.0	13200
YKK8001-12	1250	155.4	500	94.63	0.805	1.8	0.6	6.0	16210
YKK8002-12	1400	175.0	500	94.72	0.809	1.8	0.6	6.0	17230
YKK8003-12	1600	198.6	500	94.75	0.811	1.8	0.6	6.0	18620
YKK8004-12	1800	223.2	500	94.81	0.813	1.8	0.6	6.0	19560
YKK9001-12	2000	248.3	500	94.90	0.812	1.8	0.6	6.0	22500
YKK9002-12	2240	278.8	500	95.02	0.816	1.8	0.6	6.0	22900
YKK9003-12	2500	307.5	500	95.15	0.820	1.8	0.6	6.0	23500
YKK10001-12	2800	348	500	95.30	0.812	1.8	0.6	6.0	31050
YKK10002-12	3150	392	500	95.34	0.825	1.8	0.6	6.0	32320
YKK10003-12	3550	440	500	95.42	0.817	1.8	0.6	6.0	34380
YKK7101-16	500	70.5	375	93.21	0.732	1.8	0.6	6.0	11800
YKK7102-16	560	77.9	375	93.33	0.741	1.8	0.6	6.0	12340
YKK7103-16	630	85.9	375	93.43	0.755	1.8	0.6	6.0	12890
YKK7104-16	710	96.1	375	93.51	0.760	1.8	0.6	6.0	13300
YKK8001-16	800	110.8	375	93.61	0.741	1.8	0.6	6.0	15120
YKK8002-16	900	124.6	375	93.68	0.742	1.8	0.6	6.0	15800
YKK8003-16	1000	137.4	375	93.72	0.747	1.8	0.6	6.0	16230
YKK8004-16	1120	153.4	375	93.80	0.749	1.8	0.6	6.0	16890
YKK9001-16	1250	170.7	375	93.95	0.750	1.8	0.6	6.0	21890
YKK9002-16	1400	189.8	375	94.03	0.755	1.8	0.6	6.0	22990
YKK9003-16	1600	215.8	375	94.12	0.758	1.8	0.6	6.0	23680

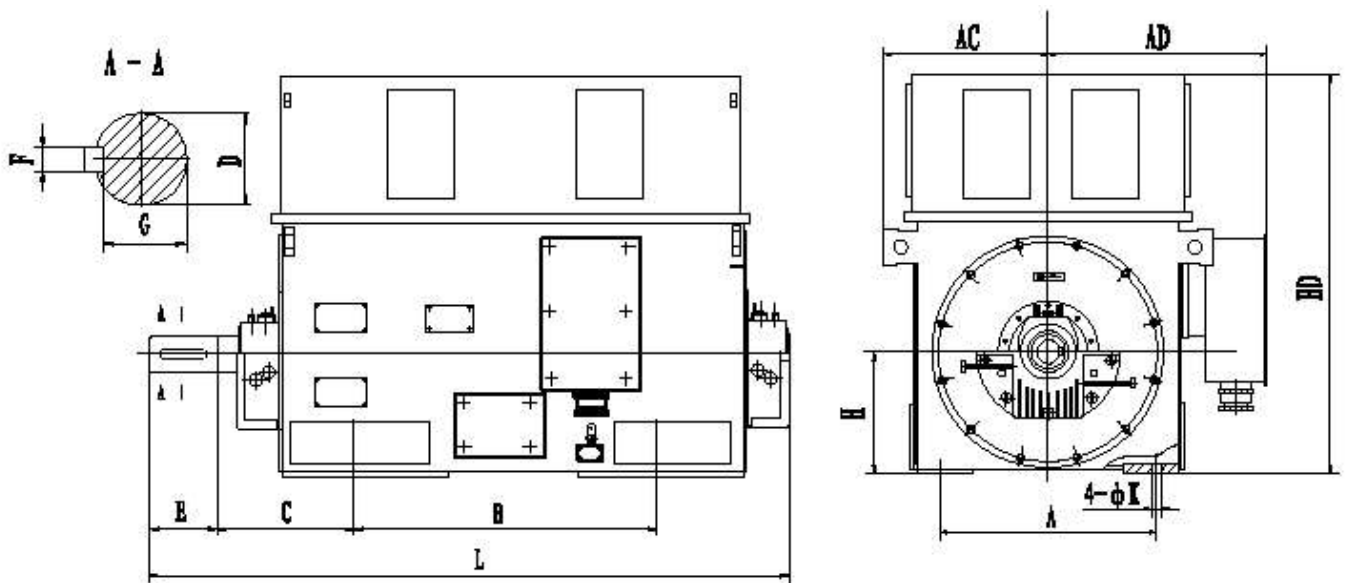
Y.YKS.YKK SERIES 6kV H710-1000 LARGE SIZE HIGH VOLTAGE THREE-PHASE ASYNCHRONOUS MOTORS

YKK10001-16	1800	244	375	94.23	0.755	1.8	0.6	6.0	30580
YKK10002-16	2000	272	375	94.35	0.758	1.8	0.6	6.0	31495
YKK10003-16	2240	304	375	94.50	0.760	1.8	0.6	6.0	32750

注：表中性能数据为保证值。Whole data in table are guarantee values.

Y 系列大型电动机外形及安装尺寸图

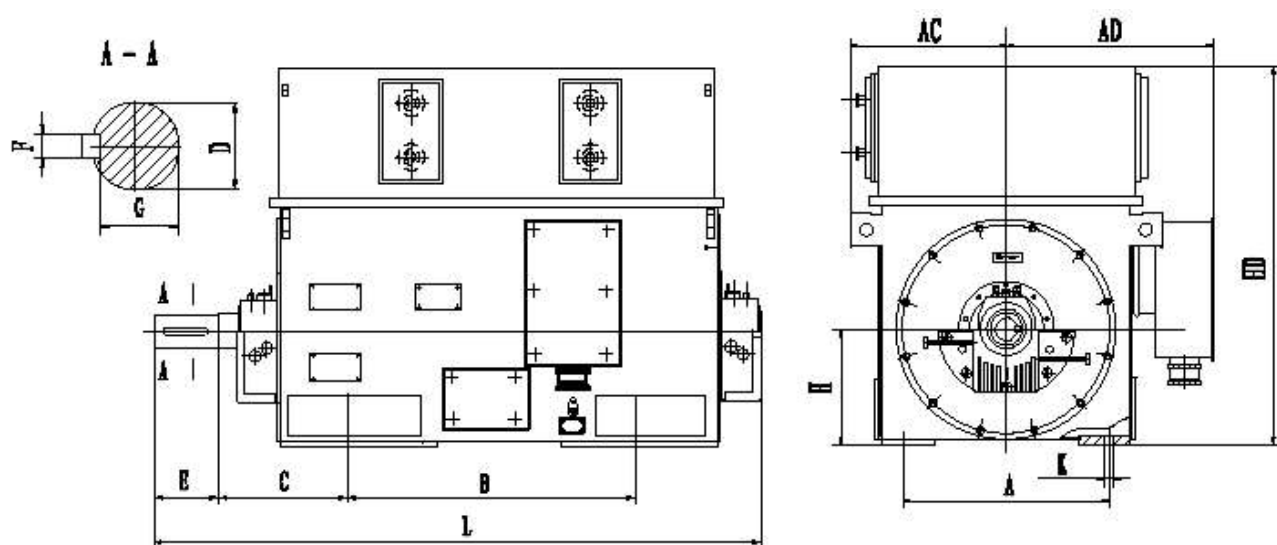
Y series large sized asynchronous motor overall and mounting dimensions figure



机座号	极数	安装尺寸及公差																外形尺寸					
		mm																mm					
		A		B		C ^a		D		E		F		G		H		K		AC	AD	HD	L
基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差						
710	4~16	1400	± 2.8	1800	± 2.8	530	± 4.2	200	± 0.046	350	± 0.70	45	0	185	0	710	0	56	+0.62	950	1250	2500	3200
800	4~16	1600		2000				220				50		-0.062		203		800		1000	1350	2700	3500
900	4~16	1800	± 3.5	2240	± 3.5	600		250	± 0.052 ± 0.020	410	± 0.77	56	0	230	-0.3	900	-1.5	66		1120	1450	2900	3800
1000	4~16	2000		2500				280				63		-0.074		260		1000		1250	1600	3200	4100

YKS 系列大型电动机外形及安装尺寸图

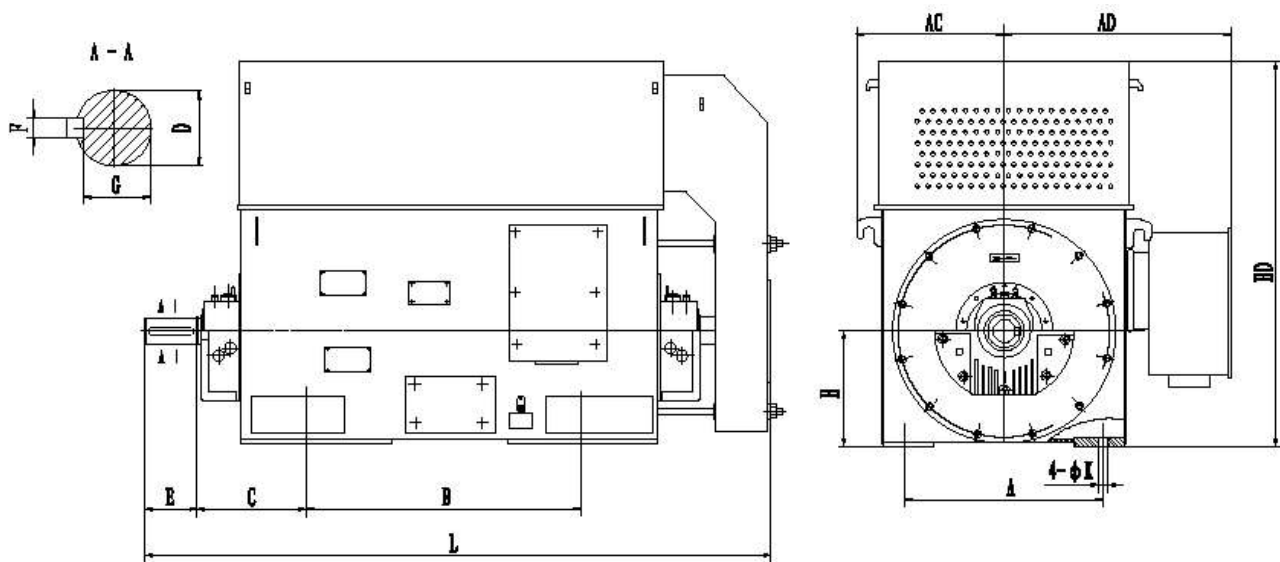
YKS series large sized asynchronous motor overall and mounting dimensions figure



机座号	极数	安装尺寸及公差																		外形尺寸			
		mm																		mm			
		A		B		C ^a		D		E		F		G		H		K		AC	AD	HD	L
		基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差				
710	4~16	1400	± 2.8	1800	± 2.8	530	± 4.2	200	± 0.046	350	± 0.70	45	0	185	0	710	0	56	+0.62	950	1250	2500	3200
800	4~16	1600		2000				220				50	-0.062	203		800				1000	1350	2700	3500
900	4~16	1800	± 3.5	2240	± 3.5	600	± 4.2	250	± 0.017	410	± 0.77	56	0	230	-0.3	900	-1.5	66	+0.62	1120	1450	2900	3800
1000	4~16	2000		2500				280		470		63	-0.074	260		1000				1250	1600	3200	4100

YKK 系列大型电动机外形及安装尺寸图

YKK series large sized asynchronous motor overall and mounting dimensions figure



机座号	极数	安装尺寸及公差 mm																		外形尺寸 mm			
		A		B		C ^a		D		E		F		G		H		K		AC	AD	HD	L
		基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差				
710	4~16	1400	± 2.8	1800	± 2.8	530	± 4.2	200	± 0.046	350	± 0.70	45	0	185	0	710	0	56	+0.62	920	1180	2700	3500
800	4~16	1600		2000				220				50	-0.062			800				1200	1380	3000	3900
900	4~16	1800	± 3.5	2240	± 3.5	600	± 4.2	250	± 0.017	410	± 0.77	56	0	230	-0.3	900	-1.5	66	+0.62	1340	1530	3250	4000
1000	4~16	2000		2500				280				63	-0.074			1000				1350	1570	3650	4800

备注：技术数据及外形安装尺寸供参考，如有变动将不另行通知。