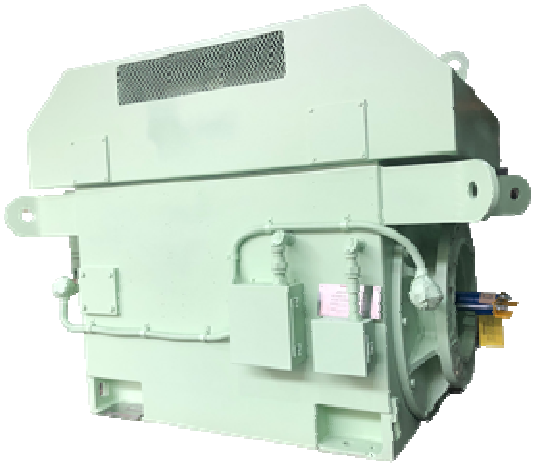
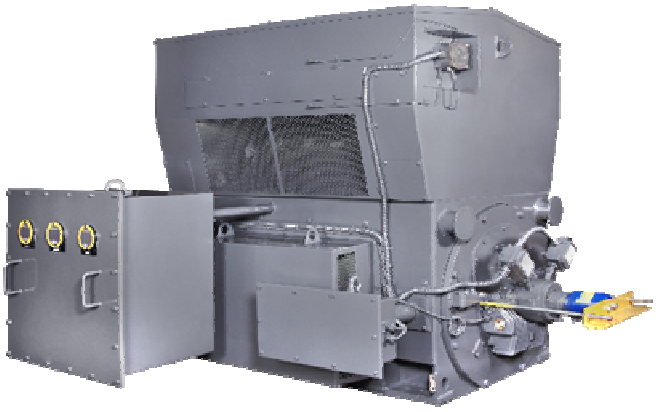
半密型ODP, WPI, WPII及水冷式馬達

MODEL : ASZK, AMZK, ANZK, AEZW

STANDARD 3-PHASE INDUCTION MOTORS
MEDIUM VOLTAGE (4000V/60Hz) SQUIRREL CAGE
FRAME NO. (SZ & EZ) 355B ~ 710E





DWG NO.
3A057H473E
REV. 09

SPECIFICATION TABLE

STANDARD 3-PHASE INDUCTION MOTORS
MEDIUM VOLTAGE SQUIRREL CAGE

MODEL
ASZK,AMZK,ANZK,AEZW
4000V
60Hz

	ITEM	STANDARD SPECIFICATION
RATING	KIND OF MOTOR	SQUIRREL-CAGE INDUCTION MOTOR (SCIM)
	DESIGN STANDARD	IEC
	VOLTAGE	4000V
	FREQUENCY	60Hz
	FRAME NO. (SZ & WZ)	355B ~ 710E
	OUTPUT RANGE	500 ~ 12000HP (375 ~ 8950kW) 60Hz
	R.P.M. (SYN.)	3600 ~ 900R.P.M. (2 ~ 8 POLE) 60Hz
	TIME DUTY	CONTINUOUS, S.F. 1.0 (S1, MCR)
	PROTECTION ENCLOSURE	IP23: ASZK (DRIP PROOF), AMZK (WP Ⅰ) IP24: ANZK (WPⅡ); IP54: AEZW (TEWAC)
	COOLING METHOD	ASZK,AMZK,ANZK: SELF VENTILATED, INTERIOR COOLING (IC 01) AEZW: SELF VENTILATED, AIR / WATER COOLER (IC81W)
	MOUNTING	HORIZONTAL FOOT MOUNTING (IM 1001, F-1)
APPLICATION	POWER CONDITIONS	VOLTAGE ±10%, FREQUENCY ±5% AND 10% MAX. OF COMBINED VOLTAGE AND FREQUENCY WITH FREQUENCY NOT TO EXCEED 5%
	ENVIRONMENT CONDITIONS	DP, WP Ⅰ: INDOOR; WPⅡ, TEWAC : OUTDOOR, NON-HAZARDOUS AMBIENT TEMPERATURE : -18 ~ 40℃ (OIL SUMP HEATER IS NOT TECO'S SCOPE) WATER INLET TEMPERATURE : 5~30℃ , (DERATING IS REQUIRED FOR TEPERATURE HIGHTER THAN 30 ℃) RELATIVE HUMIDITY : LESS THAN 95%RH (NON-CONDENSATION) ALTITUDE : LESS THAN 1,000 METERS
	OPERATING CONDITIONS	SUITABLE FOR FLUID DUTY ONLY
	ALLOWABLE LOAD WK2	AS DWG NO. 3A057H476E 60% SQUARE LOAD CURVE
	DRIVE METHOD	DIRECT CONNECTION WITH FLEXIBLE COUPLING. THE ROTOR IS BALANCED WITH A HALF KEY IF POSSIBLE WHICH MUST BE NOTED WHEN SELECTING AND BALANCING THE COUPLING.
	DIRECTION OF ROTATION	UNI-DIRECTIONAL FOR ALL 2P, 4P FRAME NO. 560 & ABOVE; OTHERS ARE BI-DIRECTIONAL CCW WHEN VIEWED FROM DRIVE END
	METHOD OF STARTING	STANDARD FOR FULL VOLTAGE DIRECT ON LINE REDUCED VOLTAGE START 80% OF FULL VOLTAGE IS OPTIONAL
	STARTING CAPABILITY	2 COLD ; 1 HOT FOR FULL VOLTAGE DIRECT ON LINE NUMBER OF STARTS: 6 TIMES PER DAY, 1000 TIMES PER YEAR, 5000 TIMES PER LIFE. OTHER THAN THESE, PLEASE CONTACT WITH FACTORY

	ITEM	STANDARD SPECIFICATION
PERFORMANCE	TEST PROCEDURE	IEC 60034, IEEE 112
	TYPICAL PERFORMANCE	AS DWG NO. 3A057H476E, VALUES IN TABLE IS NOMINAL NEMA DESIGN B
	TEMPERATURE RISE	STATOR COIL : (ACCORDING TO NEMA MG1-2003) S.F. 1.0 80℃ BY RESISTANCE METHOD ● RECOMMEND TEMPERATURE SETTINGS : ALARM 140℃ ; TRIP 155℃ BEARINGS : SLEEVE BEARINGS : 53℃ AT RATED LOAD ANTI-FRICTION BEARINGS : 55℃ AT RATED LOAD ● RECOMMEND TEMPERATURE SETTINGS : ALARM 95℃ ; TRIP 100℃
	NOISE	SOUND PRESSURE LEVEL MEASURED AT 1 METER DISTANCE & NO-LOAD CONDITION PER IEEE 85 METHOD (TOLERANCE ±3dBA). BELOW 95dBA FOR STANDARD MACHINES. BELOW 85dBA FOR LOW NOISE MACHINES. (WHEN SPECIFIED)
	VIBRATION	MEASURED ON FULLY ASSEMBLED MACHINES AND MOUNTED ON RIGID FOUNDATIONS AT NO-LOAD CONDITION. STANDARD MACHINE : BELOW 2.8 mm/s (R.M.S.) ON BEARING HOUSING. (GRADE R) BELOW 50 μm (PEAK-TO-PEAK) ON SHAFT RELATIVE. LOW VIBRATION MACHINE : (WHEN SPECIFIED) BELOW 1.8 mm/s (R.M.S.) ON BEARING HOUSING. (GRADE S) BELOW 38 μm (PEAK-TO-PEAK) ON SHAFT RELATIVE.
	OVER SPEED	TWO MIN., 120% OF SYN. R.P.M. FOR RATED 1801R.P.M. & ABOVE, 125% OF SYN. R.P.M. FOR RATED 1800R.P.M. & BELOW

PERFORMANCE DATA

3-PHASE SQUIRREL CAGE INDUCTION MOTORS
MEDIUM VOLTAGE SQUIRREL CAGE

MODEL
ASZK,AMZK,ANZK,AEZW
4000V
60Hz

ODP, WPI, WPII, TEWAC, CLASS F INS,CLASS B TEMP,40℃ AMBIENT,S.F.1.0

2P 4000V 60Hz

TYPICAL PERFORMANCE

OUTPUT		FULL	FRAME	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE			ROTOR	Max. Load		
HP	(kW)	LOAD RPM	NO. (SZ) (EZ)	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	Rated A	Starting %	Starting A	Rated KG-M	Starting %FLT	Max. %FLT	GD^2 KG-M^2	GD^2 KG-M^2	APPROX. WEIGHT(1) KG	APPROX. WEIGHT(2) KG
1500	1120	3568	355D-85R	95.3	95.2	94.6	89.8	88.5	84.4	189	598	1129	306	80	220	21	148	2860	3310
1750	1320	3565	355E-85U	95.7	95.6	95.0	90.1	89.4	86.2	219	557	1217	357	70	210	27	165	3070	3520
2000	1500	3572	400C-95U	95.8	95.7	95.1	88.8	88.3	85.2	253	501	1268	407	60	210	40	180	3640	4090
2250	1680	3573	400D-95U	96.0	95.9	95.3	89.9	89.3	86.5	281	539	1513	458	60	200	44	193	3920	4370
2500	1850	3573	400D-95U	96.3	96.2	95.6	90.0	89.5	86.8	311	540	1677	509	60	200	46	206	4120	4570
3000	2240	3576	400E-95U	96.5	96.4	95.8	90.2	89.2	85.7	371	624	2316	610	70	230	53	227	4560	5010
3500	2650	3573	450C-110V	96.3	96.2	95.6	90.5	90.5	88.5	432	505	2184	713	60	210	71	244	5290	5890
4000	3000	3576	450D-110V	96.5	96.4	95.8	91.3	90.9	88.5	489	579	2830	814	70	210	81	257	5920	6520
4500	3360	3578	450E-110V	96.4	96.3	95.7	91.3	90.5	87.4	551	638	3512	915	80	240	88	266	6180	6780
5000	3750	3577	500C-125V	96.4	96.3	95.7	91.1	90.7	88.3	613	566	3470	1017	80	210	124	272	6900	7500
5500	4100	3575	500C-125V	96.4	96.3	95.7	91.2	91.2	89.4	674	528	3557	1119	70	200	129	275	7150	7750
6000	4500	3577	500D-125V	96.3	96.2	95.6	91.7	91.4	89.3	732	577	4221	1220	80	210	140	341	7540	8140
6500	4850	3579	500E-125V	96.6	96.5	95.9	92.3	91.8	89.5	785	647	5079	1321	90	240	157	372	8180	8780
7000	5200	3584	560D-125V	96.5	96.4	95.8	91.5	91.3	89.2	854	593	5062	1421	70	210	207	385	8990	9690
7500	5600	3585	560D-125V	96.6	96.5	95.9	91.5	91.1	88.8	914	630	5756	1522	70	220	214	400	9320	10020
8000	6000	3584	560D-125V	96.6	96.5	95.9	91.4	91.2	89.2	976	590	5756	1624	70	210	214	422	9350	10050
9000	7500	3587	630E-140V	97.0	96.9	96.3	92.8	92.8	91.4	1077	547	5889	1826	60	220	364	759	14950	15650

NOTE：

1. Test standard:IEC 60034-2-1 or IEEE112.
2. Tolerance:IEC 60034-1 or NEMA MG1.
3. Data presented in rating lists are typical values. Guaranteed values on request.
   Legally binding performance and specification data is given to the end user once each order is confirmed.
4. Approx. weight (1):ASZK,AMZK,ANZK
5. Approx. weight (2):AEZW
6. This performance data is only for sinepower, not suitable for PWM power source.
7. The voltage and frequency combinations not included in performance data are quoted case by case.

ODP, WPI, WPII, TEWAC, CLASS F INS,CLASS B TEMP,40℃ AMBIENT,S.F.1.0

4P 4000V 60Hz

TYPICAL PERFORMANCE

OUTPUT		FULL	FRAME	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE			ROTOR	Max. Load	APPROX.	APPROX.
HP	(kW)	LOAD RPM	NO. (SZ) (EZ)	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	Rated A	Starting %	Starting A	Rated KG-M	Starting %FLT	Max. %FLT	GD^2 $KG\text{-}M^2$	GD^2 $KG\text{-}M^2$	WEIGHT(1) KG	WEIGHT(2) KG
900	670	1781	355B-110R	95.3	95.2	94.3	83.7	80.8	73.3	121	560	680	368	60	210	37	808	2410	2860
1000	750	1778	355B-110R	95.1	95.0	94.1	84.0	81.9	75.5	135	506	682	409	60	210	37	886	2420	2870
1250	930	1783	355D-110R	95.6	95.5	94.6	83.0	79.0	69.9	170	673	1142	510	80	250	47	1056	2920	3370
1500	1120	1783	355E-110R	95.8	95.7	94.8	84.1	80.7	72.5	200	672	1347	612	90	250	54	1222	3240	3690
1750	1320	1785	400C-125R	96.1	96.0	95.1	85.7	83.2	76.6	229	630	1441	713	70	230	78	1375	3740	4190
2000	1500	1785	400D-125R	96.2	96.1	95.2	85.9	83.5	77.1	261	639	1665	815	70	230	86	1522	4050	4500
2250	1680	1785	400E-125R	96.3	96.2	95.3	86.4	84.2	78.1	291	657	1913	917	70	230	98	1661	4760	5210
2500	1850	1783	450B-125R	96.1	96.0	95.1	87.5	86.2	81.5	320	528	1690	1020	60	220	119	1798	4740	5340
3000	2240	1784	450D-140V	96.3	96.2	95.3	88.1	86.7	81.9	381	564	2147	1224	60	200	139	2039	5360	5960
3500	2650	1785	450D-140V	96.5	96.4	95.5	88.3	86.6	81.5	442	614	2716	1427	70	220	158	2255	5790	6390
4000	3000	1787	500C-160V	96.5	96.4	95.5	87.2	85.7	80.7	512	561	2871	1629	60	210	236	2442	6720	7320
4500	3360	1787	500C-160V	96.7	96.6	95.7	87.3	85.5	80.1	574	606	3478	1832	60	220	259	2616	7270	7870
5000	3750	1787	500C-160V	96.8	96.7	95.8	88.4	87.1	82.6	629	600	3775	2036	60	210	295	2770	7925	8525
5500	4100	1788	500D-160V	96.8	96.7	95.8	87.8	86.0	80.6	697	639	4453	2238	70	230	307	2901	8320	8920
6000	4500	1789	560C-180V	96.9	96.8	95.9	88.3	86.9	82.4	755	636	4802	2440	70	220	423	3013	9537	10237
6500	4850	1790	560D-180V	97.0	96.9	96.0	88.8	87.4	83.1	813	661	5371	2642	70	230	480	3109	10560	11260
7000	5200	1789	560D-180V	97.0	96.9	96.0	88.7	87.5	83.3	876	645	5650	2847	70	220	480	3199	10560	11260
7500	5600	1791	630C-200V	97.0	96.9	96.0	90.3	89.3	85.8	922	603	5560	3047	60	220	736	3257	11250	11950
8000	6000	1790	630C-200V	97.0	96.9	96.0	90.4	89.7	86.6	982	579	5688	3252	60	210	762	3317	11500	12200
9000	6700	1791	630C-200V	97.1	97.0	96.1	90.8	90.0	86.8	1099	613	6738	3656	60	220	856	3378	12350	13050
10000	7500	1791	630D-200V	97.2	97.1	96.2	90.9	90.1	86.9	1219	626	7629	4063	60	230	934	3392	13300	14000
11000	8200	1791	630D-200V	97.2	97.1	96.2	91.1	90.3	87.3	1338	633	8467	4469	60	230	1013	4980	14000	14700
12000	8950	1790	710D-220V	96.9	96.8	95.9	92.4	91.7	89.2	1443	616	8890	4878	60	240	1393	5022	19700	20500

NOTE：

1. Test standard:IEC 60034-2-1 or IEEE112.
2. Tolerance:IEC 60034-1 or NEMA MG1.
3. Data presented in rating lists are typical values. Guaranteed values on request.
   Legally binding performance and specification data is given to the end user once each order is confirmed.
4. Approx. weight (1):ASZK,AMZK,ANZK
5. Approx. weight (2):AEZW
6. This performance data is only for sinepower, not suitable for PWM power source.
7. The voltage and frequency combinations not included in performance data are quoted case by case.

ODP, WPI, WPII, TEWAC, CLASS F INS,CLASS B TEMP,40℃ AMBIENT,S.F.1.0

6P 4000V 60Hz

TYPICAL PERFORMANCE

OUTPUT		FULL	FRAME	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE			ROTOR	Max. Load	APPROX.	APPROX.
HP	(kW)	LOAD RPM	NO. (SZ) (EZ)	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	Rated A	Starting %	Starting A	Rated KG-M	Starting %FLT	Max. %FLT	GD^2 $KG\text{-}M^2$	GD^2 $KG\text{-}M^2$	WEIGHT(1) KG	WEIGHT(2) KG
700	520	1185	355C-110R	94.6	94.5	93.4	85.7	83.9	77.8	93	516	480	430	70	210	55	2404	2600	3050
800	600	1185	355D-110R	94.8	94.7	93.6	86.4	84.8	79.0	105	532	559	491	70	220	64	2702	2950	3400
900	670	1187	400B-125R	94.9	94.8	93.7	85.8	83.3	76.3	119	587	699	552	70	210	88	2980	3090	3540
1000	750	1188	400B-125R	95.2	95.1	94.0	85.9	83.2	75.9	132	630	830	612	70	230	99	3257	3360	3810
1250	930	1188	400D-125R	95.4	95.3	94.2	86.7	84.4	77.8	163	635	1033	766	80	230	121	3939	4040	4490
1500	1120	1188	400E-125R	95.6	95.5	94.4	87.2	85.2	79.0	194	647	1254	919	80	230	145	4590	4670	5120
1750	1320	1189	450B-140R	95.6	95.5	94.4	85.1	81.7	73.6	232	660	1529	1071	90	250	173	5202	4710	5310
2000	1500	1189	450B-140R	95.7	95.6	94.5	85.0	81.5	73.3	265	668	1768	1224	90	250	183	5799	5000	5600
2250	1680	1189	450D-140R	95.9	95.8	94.7	87.0	84.5	77.8	290	676	1963	1377	90	240	240	6372	6070	6670
2500	1850	1189	500C-160R	96.0	95.9	94.8	84.1	80.9	73.1	333	584	1947	1530	70	220	303	6923	6410	7010
3000	2240	1188	500C-160R	96.1	96.0	94.9	86.0	84.3	79.0	391	520	2032	1837	60	210	359	7985	7240	7840
3500	2650	1190	500D-160R	96.3	96.2	95.1	84.3	80.7	72.4	464	656	3045	2140	80	250	416	8919	8200	8800
4000	3000	1191	560B-180R	96.4	96.3	95.2	87.0	84.7	78.6	514	623	3199	2444	70	230	509	9800	8830	9530
4500	3360	1191	560C-180R	96.5	96.4	95.3	87.4	85.0	78.8	575	661	3797	2749	80	240	587	10641	9950	10650
5000	3750	1192	560D-180R	96.7	96.6	95.5	87.7	85.3	79.0	635	709	4501	3052	90	250	694	11399	11260	11960
5500	4100	1192	560E-180R	96.8	96.7	95.6	87.8	85.3	79.0	697	725	5052	3357	90	250	758	12128	12340	13040
6000	4500	1192	560E-180R	96.8	96.7	95.6	87.7	85.3	78.9	761	722	5495	3662	90	250	778	12808	13220	13920
6500	4850	1194	630C-200R	97.0	96.9	95.8	84.6	82.7	76.5	853	626	5339	3961	80	210	1149	13376	12300	13050
7000	5200	1194	630D-200R	97.1	97.0	95.9	84.8	82.7	76.4	915	644	5895	4266	80	210	1221	13959	13300	14050
7500	5600	1194	630D-200R	97.1	97.0	95.9	85.0	83.3	77.4	978	629	6154	4570	80	210	1286	14498	13500	14250
8000	6000	1194	630E-200R	97.2	97.1	96.0	85.1	83.4	77.5	1041	639	6654	4875	90	210	1357	14995	14510	14900
9000	6700	1194	710D-220R	97.1	97.0	95.9	86.2	85.1	80.4	1158	586	6785	5484	60	200	1860	14680	19250	19850
10000	7500	1194	710E-220R	97.2	97.1	96.0	86.0	84.9	80.2	1288	584	7523	6094	60	200	1997	15351	20250	21150

NOTE：

1. Test standard:IEC 60034-2-1 or IEEE112.
2. Tolerance:IEC 60034-1 or NEMA MG1.
3. Data presented in rating lists are typical values. Guaranteed values on request.
   Legally binding performance and specification data is given to the end user once each order is confirmed.
4. Approx. weight (1):ASZK,AMZK,ANZK
5. Approx. weight (2):AEZW
6. This performance data is only for sinepower, not suitable for PWM power source.
7. The voltage and frequency combinations not included in performance data are quoted case by case.

ODP, WPI, WPII, TEWAC, CLASS F INS,CLASS B TEMP,40℃ AMBIENT,S.F.1.0

8P 4000V 60Hz

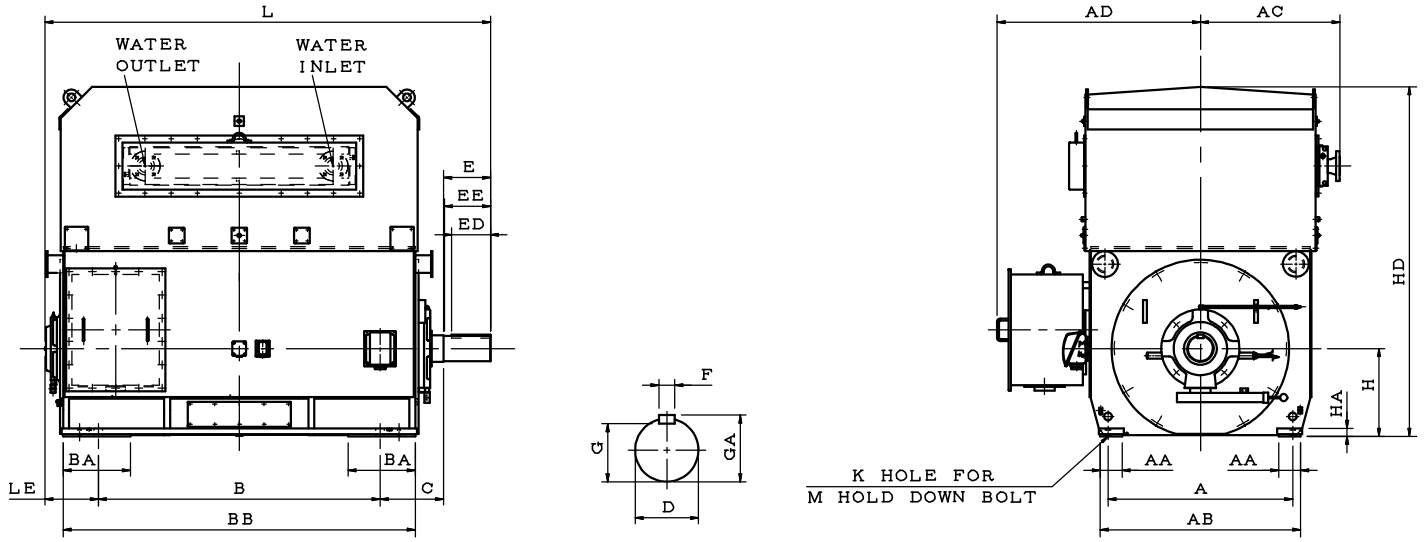
TYPICAL PERFORMANCE

OUTPUT		FULL	FRAME	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE			ROTOR	Max. Load	APPROX.	APPROX.
HP	(kW)	LOAD RPM	NO. (SZ) (EZ)	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	Rated A	Starting %	Starting A	Rated KG-M	Starting %FLT	Max. %FLT	GD^2 KG-M^2	GD^2 KG-M^2	WEIGHT(1) KG	WEIGHT(2) KG
500	375	886	355B-110R	93.8	93.7	92.5	79.1	75.0	65.4	73	502	364	411	90	210	66	3648	2450	2900
600	450	889	355D-110R	94.1	94.0	92.8	75.4	69.1	57.1	91	611	556	491	120	240	79	4262	2850	3300
700	520	889	355E-110R	94.3	94.2	93.0	78.3	73.1	62.0	102	616	629	573	120	230	100	4891	3350	3800
800	600	888	400B-125R	94.5	94.4	93.2	83.7	81.6	75.0	109	473	515	655	60	200	126	5522	3440	3890
900	670	889	400C-125R	94.6	94.5	93.3	83.3	80.6	73.3	123	503	619	737	70	210	140	6111	3750	4200
1000	750	890	400D-125R	95.0	94.9	93.7	83.2	79.8	71.6	136	564	768	818	80	210	161	6684	4220	4670
1250	930	889	450B-140R	95.0	94.9	93.7	82.8	80.3	73.2	171	514	880	1023	80	200	199	8140	4310	4910
1500	1120	890	450B-140R	95.2	95.1	93.9	82.3	78.9	70.5	206	581	1198	1226	100	200	232	9494	4800	5400
1750	1320	891	450C-140R	95.3	95.2	94.0	82.1	78.5	69.8	241	599	1443	1429	100	210	264	10791	5360	5960
2000	1500	891	450D-140R	95.5	95.4	94.2	81.1	76.7	67.0	278	659	1832	1633	120	230	305	12070	6140	6740
2250	1680	891	500B-160R	94.9	94.8	93.6	83.6	81.3	74.3	305	578	1765	1837	100	210	332	13309	6190	6790
2500	1850	892	500B-160R	95.1	95.0	93.8	83.2	80.4	72.6	340	617	2099	2039	110	200	361	14468	6430	7030
3000	2240	892	500D-160R	95.4	95.3	94.1	83.3	80.3	72.3	406	647	2630	2447	110	210	432	16759	7440	8040
3500	2650	893	560C-180R	96.0	95.9	94.7	84.8	81.7	73.8	463	690	3194	2852	90	240	846	17454	9720	10420
4000	3000	893	560D-180R	96.1	96.0	94.8	85.4	82.7	75.5	525	673	3532	3259	90	230	949	19345	10630	11330
4500	3360	893	560E-180R	96.3	96.2	95.0	85.7	83.2	76.2	587	679	3987	3667	90	230	1073	21139	11880	12580
5000	3750	895	630C-200R	96.8	96.7	95.5	81.7	79.3	72.0	681	559	3805	4065	60	200	1515	22707	12100	12850
5500	4100	894	630D-200R	96.8	96.7	95.5	82.5	80.7	74.4	742	539	3997	4476	60	190	1696	24388	12700	13450
6000	4500	894	630E-200R	96.9	96.8	95.6	82.0	80.0	73.3	813	543	4415	4883	60	190	1739	25921	13800	14550
6500	4850	895	630E-200R	96.9	96.8	95.6	82.4	80.4	73.7	877	556	4874	5284	60	200	1928	27296	14750	15500
7000	5200	894	710D-220R	96.8	96.7	95.5	86.1	84.3	78.7	904	593	5363	5697	60	200	2363	28763	18900	19800
7500	5600	894	710D-220R	96.8	96.7	95.5	86.0	84.1	78.3	970	594	5762	6104	60	200	2423	30079	19900	20600
8000	6000	894	710E-220R	96.8	96.7	95.5	86.4	84.9	79.8	1030	574	5912	6511	60	210	2612	31328	21520	22420

NOTE：

1. Test standard:IEC 60034-2-1 or IEEE112.
2. Tolerance:IEC 60034-1 or NEMA MG1.
3. Data presented in rating lists are typical values. Guaranteed values on request.
   Legally binding performance and specification data is given to the end user once each order is confirmed.
4. Approx. weight (1):ASZK,AMZK,ANZK
5. Approx. weight (2):AEZW
6. This performance data is only for sinepower, not suitable for PWM power source.
7. The voltage and frequency combinations not included in performance data are quoted case by case.

TOTALLY ENCLOSED WATER-TO-AIR COOLED TYPE. SQUIRREL CAGE ROTOR.



DIMENSIONS IN MM

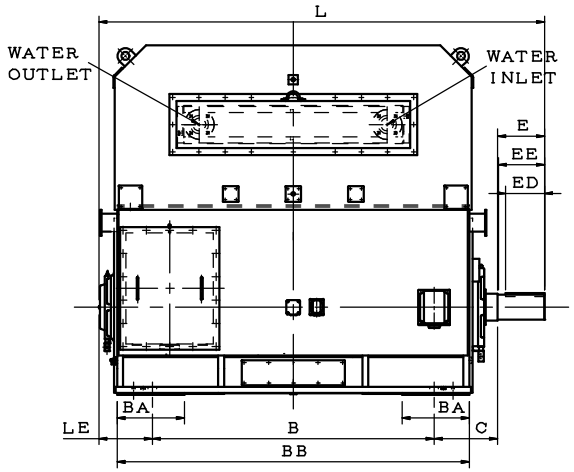
FRAME NO.	NO. OF POLES	MOUNTING									AC	AD	H	HA	HD	L	LE	SHAFT EXTENSION				KEY SIZE			BEARING		FRAME NO.
		A	AA	AB	B	BA	BB	C	K	M								D	E	EE	G	ED	F	GA	DRIVE END	OPP. D END	
355B	4P, 8P	710	85	790	800	280	1100	254	35	M24		1035	355	40	1783	1529	265	110	210	200	100	160	28	116	6324	6320	355B
355C	6P	710	85	790	900	280	1200	254	35	M24		1035	355	40	1783	1629	265	110	210	200	100	160	28	116	6324	6320	355C
355D	2P	710	85	790	1000	280	1300	254	35	M24		1036	355	40	1783	1663	239	85	170	157	76	140	22	90	6218C3	6315C3	355D
	4P, 6P, 8P											1035				1729	265	110	210	200	100	160	28	116	6324	6320	
355E	4P, 8P	710	85	790	1120	280	1420	254	35	M24		1035	355	40	1783	1849	265	110	210	200	100	160	28	116	6324	6320	355E
400B	6P, 8P	800	95	900	900	355	1260	280	42	M30		1086	400	40	1883	1673	283	125	210	202	114	160	32	132	6326	6322	400B
400C	4P, 8P	800	95	900	1000	355	1360	280	42	M30	LATER	1086	400	40	1883	1773	283	125	210	202	114	160	32	132	6326	6322	400C
400D	4P 6P, 8P	800	95	900	1120	355	1480	280	42	M30		1086	400	40	1883	1893	283	125	210	202	114	160	32	132	6326	6322	400D
400E	4P, 6P	800	95	900	1250	355	1610	280	42	M30		1086	400	40	1883	2023	283	125	210	202	114	160	32	132	6326	6322	400E
450B	4P	900	100	990	1000	380	1420	315	42	M30		1156	450	40	2003	1844	319	125	210	202	114	160	32	132	6326	6322	450B
	6P, 8P															1884		140	250	240	128	200	36	148	6330	6326	
450C	8P	900	100	990	1120	380	1540	315	42	M30		1156	450	40	2003	2004	319	140	250	240	128	200	36	148	6330	6326	450C
450D	6P, 8P	900	100	990	1250	380	1670	315	42	M30		1156	450	40	2003	2134	319	140	250	240	128	200	36	148	6330	6326	450D

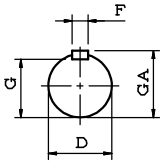
1. TOLERANCE OF SHAFT EXTENSION DIAMETER D=m6.
2. TOLERANCE OF SHAFT CENTER HEIGHT H=
3. TOLERANCE OF KEY WIDTH F=h9.
4. USABLE SHAFT LENGTH:EE
5. ANTI-FRICTION BEARINGS.

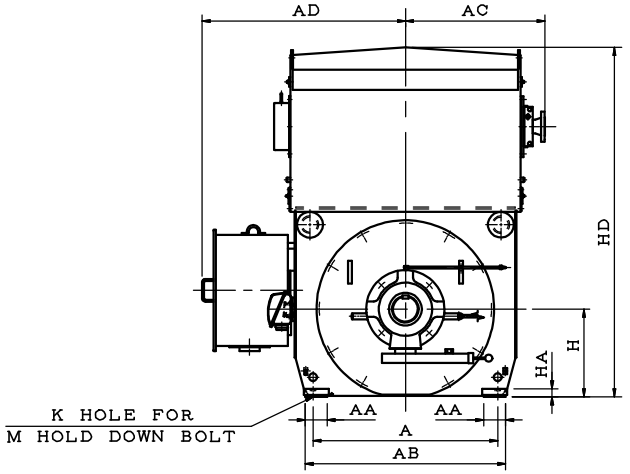
OUTLINE DIMENSIONS SHEET

3-PHASE INDUCTION MOTOR
FRAME NO. (WZ)355B-710E

TOTALLY ENCLOSED WATER-TO-AIR COOLED TYPE. SQUIRREL CAGE ROTOR.







DIMENSIONS IN MM

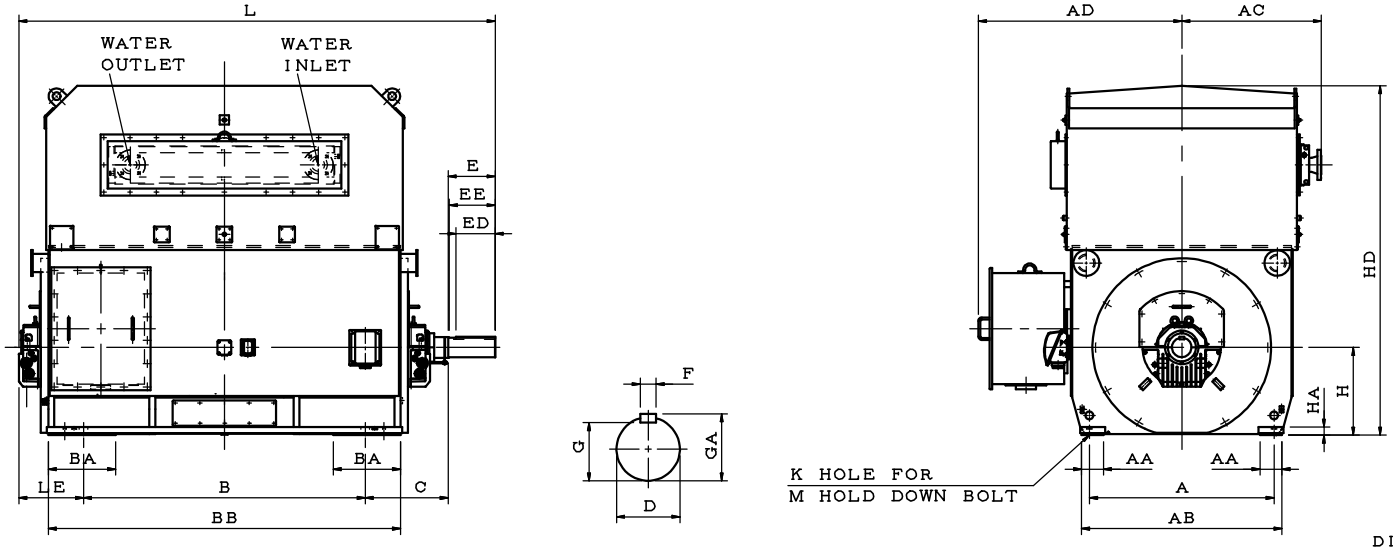
FRAME NO.	NO. OF POLES	MOUNTING 05									AC	AD	H	HA	HD	L	LE	SHAFT EXTENSION				KEY SIZE			BEARING		FRAME NO.
		A	AA	AB	B	BA	BB	C	K	M								D	E	EE	G	ED	F	GA	DRIVE END	OPP. D END	
500B	8P	1000	140	1150	1120	405	1570	335	48	M36		1226	500	40	2113	2113	358	160	300	290	147	250	40	169	6334	6330	500B
500C	6P	1000	140	1150	1250	405	1700	335	48	M36		1226	500	40	2113	2243	358	160	300	290	147	250	40	169	6334	6330	500C
500D	6P, 8P	1000	140	1150	1400	405	1850	335	48	M36		1226	500	40	2113	2393	358	160	300	290	147	250	40	169	6334	6330	500D
560B	6P	1180	140	1280	1250	430	1700	355	55	M42		1296	560	53	2233	2263	358	180	300	290	165	250	45	190	6338	6334	560B
560C	6P, 8P	1180	140	1280	1400	430	1850	355	55	M42		1296	560	53	2233	2413	358	180	300	290	165	250	45	190	6338	6334	560C
560D	6P, 8P	1180	140	1280	1600	430	2050	355	55	M42		1296	560	53	2233	2613	358	180	300	290	165	250	45	190	6338	6334	560D
560E	6P, 8P	1180	140	1280	1800	430	2250	355	55	M42		1296	560	53	2233	2813	358	180	300	290	165	250	45	190	6338	6334	560E
630C	6P, 8P	1250	160	1400	1600	480	2100	450	55	M42	LATER	1349	630	58	2408	2709	384	200	350	337	185	280	45	210	NU244 +6044	NU238	630C 05
630D	6P, 8P	1250	160	1400	1800	480	2300	450	55	M42		1349	630	58	2408	2909	384	200	350	337	185	280	45	210	NU244 +6044	NU238	630D 05
630E	6P, 8P	1250	160	1400	2000	480	2500	450	55	M42		1349	630	58	2408	3109	384	200	350	337	185	280	45	210	NU244 +6044	NU238	630E 05
710C	6P, 8P	1400	180	1570	1800	520	2350	475	55	M42		1499	710	50	2643	3015	390	220	350	337	203	280	50	231	NU248 +6048	NU244	710C
710D	6P, 8P	1400	180	1570	2000	520	2550	475	55	M42		1499	710	50	2643	3215	390	220	350	337	203	280	50	231	NU248 +6048	NU244	710D
710E	6P, 8P	1400	180	1570	2240	520	2700	475	55	M42		1499	710	50	2643	3410	345	220	350	337	203	280	50	231	NU248 +6048	NU244	710E

1. TOLERANCE OF SHAFT EXTENSION DIAMETER D=m6.
2. TOLERANCE OF SHAFT CENTER HEIGHT H=
3. TOLERANCE OF KEY WIDTH F=h9.
4. USABLE SHAFT LENGTH:EE
5. ANTI-FRICTION BEARINGS.

OUTLINE DIMENSIONS SHEET

3-PHASE INDUCTION MOTOR
FRAME NO. (WZ)355B-710E

TOTALLY ENCLOSED WATER-TO-AIR COOLED TYPE. SQUIRREL CAGE ROTOR.



DIMENSIONS IN MM

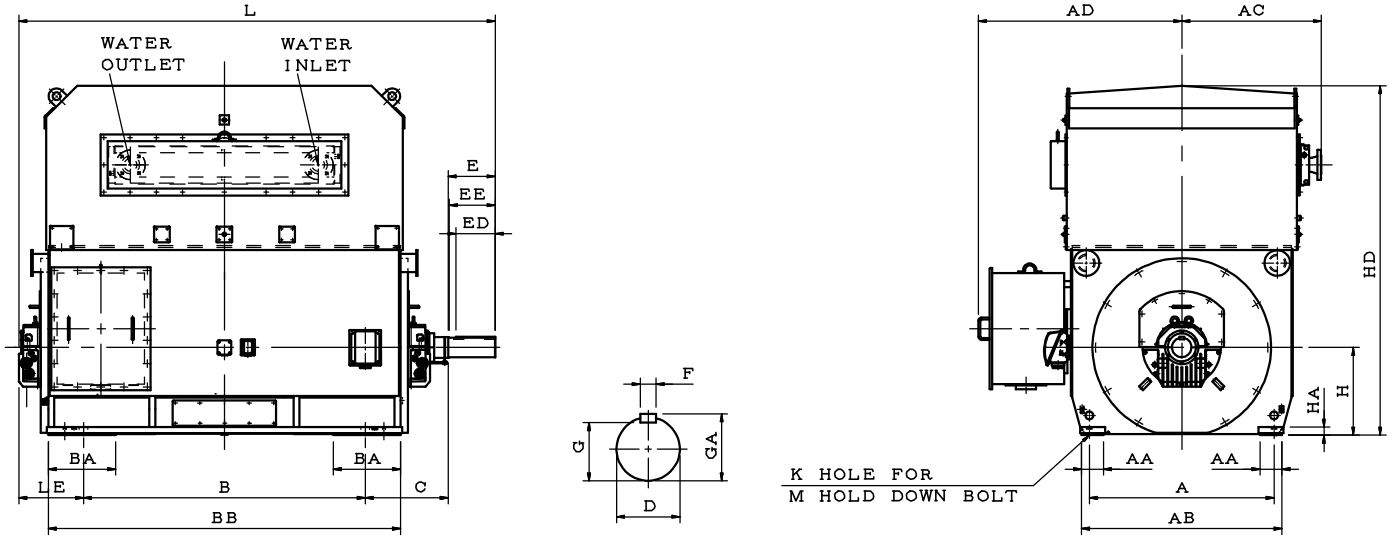
	FRAME NO.	NO. OF POLES	MOUNTING A	AA	AB	B	BA	BB	C	K	M	AC	AD	H	HA	HD	L	LE	SHAFT EXTENSION D	E	EE	G	KEY SIZE ED	F	GA	BEARING DRIVE END	OPP. D END	FRAME NO.
◇02	355B	4P	710	85	790	800	280	1100	355	35	M24		1035	355	40	1783	1653	288	110	210	204	100	160	28	116	9S/100	9S/90	355B
		8P																								11/110	9/80	
	355C	6P	710	85	790	900	280	1200	355	35	M24		1035	355	40	1783	1753	288	110	210	204	100	160	28	116	11/110	9/80	355C
	355D	2P	710	85	790	1000	280	1300	355	35	M24		1035	355	40	1783	1847	322	85	170	164	76	140	22	90	9S/80	9S/80	355D
◇02		4P															1853	288	110	210	204	100	160	28	116	9S/100	9S/90	
		6P&8P															1853		110	210	204	100	160	28	116	11/110	9/80	
	355E	2P	710	85	790	1120	280	1420	355	35	M24		1035	355	40	1783	1967	322	85	170	164	76	140	22	90	9S/80	9S/80	355E
		4P															1973	288	110	210	204	100	160	28	116	11/110	9/80	
		8P															1973		110	210	204	100	160	28	116	11/110	9/80	
	400B	6P&8P	800	95	900	900	355	1260	400	42	M30	LATER	1086	400	40	1883	1843	333	125	210	204	114	160	32	132	11/125	11/110	400B
	400C	2P	800	95	900	1000	355	1360	400	42	M30		1086	400	40	1883	1922	352	95	170	164	86	140	25	100	9S/90	9S/80	400C
		4P															1943	333	125	210	204	114	160	32	132	11/125	11/110	
		8P																										
	400D	2P	800	95	900	1120	355	1480	400	42	M30		1086	400	40	1883	2042	352	95	170	164	86	140	25	100	9S/90	9S/80	400D
	400D	4P	800	95	900	1120	355	1480	400	42	M30		1086	400	40	1883	2063	333	125	210	204	114	160	32	132	11/125	11/110	400D
		6P&8P																										
	400E	2P	800	95	900	1250	355	1610	400	42	M30		1086	400	40	1883	2172	352	95	170	164	86	140	25	100	9S/90	9S/80	400E
	400E	4P	800	95	900	1250	355	1610	400	42	M30		1086	400	40	1883	2193	333	125	210	204	114	160	32	132	11/125	11/110	400E
		6P																										

1. TOLERANCE OF SHAFT EXTENSION DIAMETER D=m6.
2. TOLERANCE OF SHAFT CENTER HEIGHT H=
3. TOLERANCE OF KEY WIDTH F=h9.
4. USABLE SHAFT LENGTH:EE
5. SLEEVE BEARINGS SELF LUBRICATION(NATURAL COOLING).
6. PROVISION FOR NONCONTACTIVE VIBRATION PROBE, DISTANCE OF "C" HAVE TO BE CHANGED F##355:450, F##400:500, F##450:530, F##500:600, F##560:630, F##630:670.

OUTLINE DIMENSIONS SHEET

3-PHASE INDUCTION MOTOR
FRAME NO. (WZ)355B-630E

TOTALLY ENCLOSED WATER-TO-AIR COOLED TYPE. SQUIRREL CAGE ROTOR.



DIMENSIONS IN MM

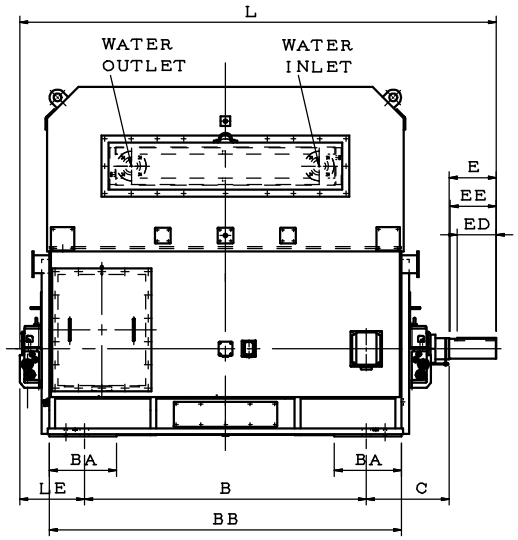
FRAME NO.	NO. OF POLES	MOUNTING									AC	AD	H	HA	HD	L	LE	SHAFT EXTENSION				KEY SIZE			BEARING		FRAME NO.
		A	AA	AB	B	BA	BB	C	K	M								D	E	EE	G	ED	F	GA	DRIVE END	OPP. D END	
450B	6P&8P	900	100	990	1000	380	1420	450	42	M30		1156	450	40	2003	2070	370	140	250	244	128	200	36	148	14/140	11/125	450B
450C	8P	900	100	990	1120	380	1540	450	42	M30		1156	450	40	2003	2190	370	140	250	244	128	200	36	148	14/140	11/125	450C
450D	6P&8P	900	100	990	1250	380	1670	450	42	M30		1156	450	40	2003	2320	370	140	250	244	128	200	36	148	14/140	11/125	450D
500B	8P	1000	140	1150	1120	405	1570	500	48	M36		1226	500	40	2113	2311	391	160	300	294	147	250	40	169	14/160	11/125	500B
500C	6P	1000	140	1150	1250	405	1700	500	48	M36		1226	500	40	2113	2441	391	160	300	294	147	250	40	169	14/160	11/125	500C
500D	6P&8P	1000	140	1150	1400	405	1850	500	48	M36		1226	500	40	2113	2591	391	160	300	294	147	250	40	169	14/160	11/125	500D
560B	6P	1180	140	1280	1250	430	1700	530	55	M42		1296	560	53	2233	2496	416	180	300	287	165	250	45	190	18/180	14/140	560B
560C	6P, 8P	1180	140	1280	1400	430	1850	530	55	M42	LATER	1296	560	53	2233	2646	416	180	300	287	165	250	45	190	18/180	14/140	560C
560D	6P, 8P	1180	140	1280	1600	430	2050	530	55	M42		1296	560	53	2233	2846	416	180	300	287	165	250	45	190	18/180	14/140	560D
560E	6P, 8P	1180	140	1280	1800	430	2250	530	55	M42		1296	560	53	2233	3046	416	180	300	287	165	250	45	190	18/180	14/140	560D
630C	8P	1250	160	1400	1600	480	2100	560	55	M42		1349	630	58	2408	2988	478	200	350	337	185	280	45	210	18/200	18/180	630C
630D	8P	1250	160	1400	1800	480	2300	560	55	M42		1349	630	58	2408	3188	478	200	350	337	185	280	45	210	18/200	18/180	630D
630E	8P	1250	160	1400	2000	480	2500	560	55	M42		1349	630	58	2408	3388	478	200	350	337	185	280	45	210	18/200	18/180	630E

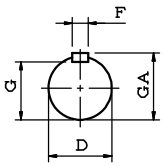
1. TOLERANCE OF SHAFT EXTENSION DIAMETER D=m6.
2. TOLERANCE OF SHAFT CENTER HEIGHT H=
3. TOLERANCE OF KEY WIDTH F=h9.
4. USABLE SHAFT LENGTH:EE
5. SLEEVE BEARINGS SELF LUBRICATION(NATURAL COOLING).
6. PROVISION FOR NONCONTACTIVE VIBRATION PROBE, DISTANCE OF "C" HAVE TO BE CHANGED F#355:450, F#400:500, F#450:530, F#500:600, F#560:630, F#630:670.

OUTLINE DIMENSIONS SHEET

3-PHASE INDUCTION MOTOR
FRAME NO. (WZ)355B-630E

TOTALLY ENCLOSED WATER-TO-AIR COOLED TYPE. SQUIRREL CAGE ROTOR.





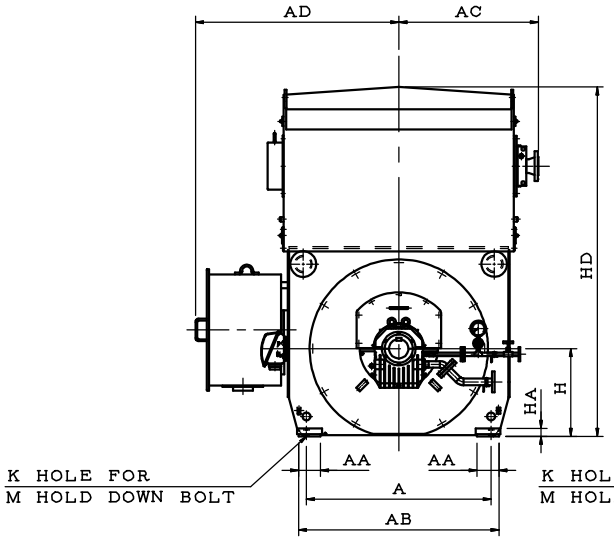
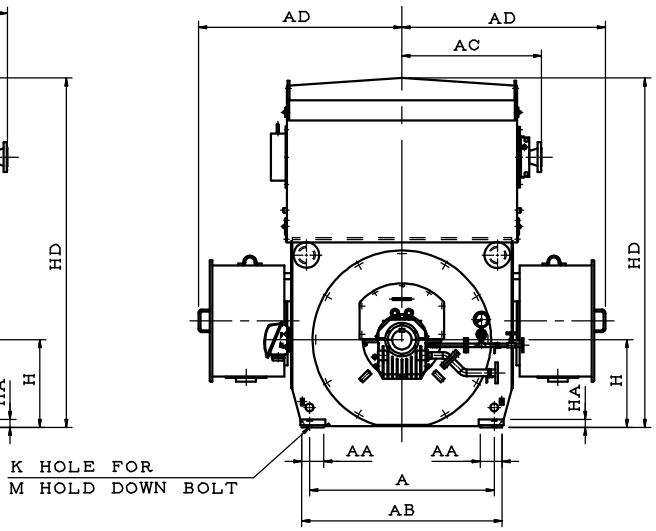


FIG 1



(A) FIG 2

02 DIMENSIONS IN MM

FRAME NO.	NO. OF POLES	MOUNTING									AC	AD	H	HA	HD	L	LE	SHAFT EXTENSION				KEY SIZE			BEARING		DWG	FRAME NO.
		A	AA	AB	B	BA	BB	C	K	M								D	E	EE	G	ED	F	GA	DRIVE END	OPP. D END		
450B	4P	900	100	990	1000	380	1420	450	42	M30		1156	450	40	2003	2070	370	140	250	244	128	200	36	148	14/140	11/125	FIG1	450B
450C	2P	900	100	990	1120	380	1540	450	42	M30		1159	450	40	2003	2150	370	110	210	204	100	160	28	116	11/110	9/ 80	FIG1	450C
450D	2P	900	100	990	1250	380	1670	450	42	M30		1159	450	40	2003	2283	373	110	210	204	100	160	28	116	11/110	9/ 80	FIG1	450D
	4P											1156				2320	370	140	250	244	128	200	36	148	14/140	11/125		
450E	2P	900	100	990	1400	380	1820	450	42	M30		1159	450	40	2003	2433	373	110	210	204	100	160	28	116	11/110	9/ 80	FIG1	450E
500C	2P	1000	140	1150	1250	405	1700	500	48	M36	LATER	1229	500	40	2113	2363	403	125	210	204	114	160	32	132	11/125	11/110	FIG1	500C
	4P											1226				2441	391	160	300	294	147	250	40	169	14/160	11/125		
500D	2P	1000	140	1150	1400	405	1850	500	48	M36		1229	500	40	2113	2513	403	125	210	204	114	160	32	132	11/125	11/110	FIG1	500D
	4P											1226				2591	391	160	300	294	147	250	40	169	14/160	11/125		
500E	2P	1000	140	1150	1600	405	2050	500	48	M36		1229	500	40	2113	2713	403	125	210	204	114	160	32	132	11/125	11/110	FIG2	500E
560C	4P	1180	140	1280	1400	430	1850	530	55	M42		1296	560	53	2233	2646	416	180	300	287	165	250	45	190	18/180	14/140	FIG1	560C
560D	2P	1180	140	1280	1600	430	2050	530	55	M42		1299	560	53	2233	2753	413	125	210	204	114	160	32	132	14/125	11/110	FIG2	560D
	4P											1296				2846	416	180	300	287	165	250	45	190	18/180	14/140		

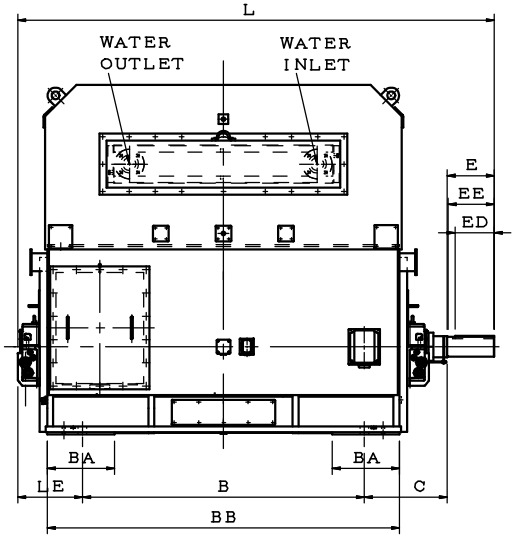
1. TOLERANCE OF SHAFT EXTENSION DIAMETER D=m6.
2. TOLERANCE OF SHAFT CENTER HEIGHT H=$^{0}_{-1}$
3. TOLERANCE OF KEY WIDTH F=h9.
4. USABLE SHAFT LENGTH:EE
5. SLEEVE BEARINGS (EXTERNAL OIL CIRCULATION).
6. PROVISION FOR NONCONTACTIVE VIBRATION PROBE, DISTANCE OF "C" HAVE TO BE CHANGED F#450:530, F#500:600, F#560:630, F#630:670, F#710:710

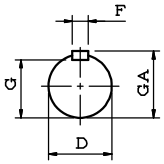
(A) ONE OF TERMINAL BOX IS NEURAL POINT T-BOX

OUTLINE DIMENSIONS SHEET

3-PHASE INDUCTION MOTOR
FRAME NO. (WZ)450B-710E

TOTALLY ENCLOSED WATER-TO-AIR COOLED TYPE. SQUIRREL CAGE ROTOR.





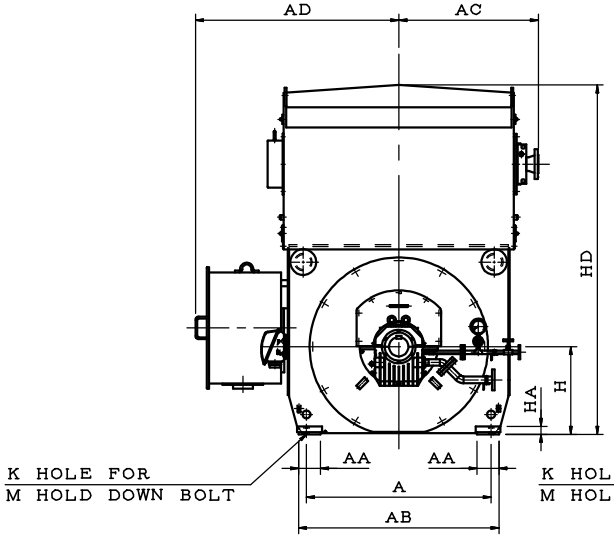
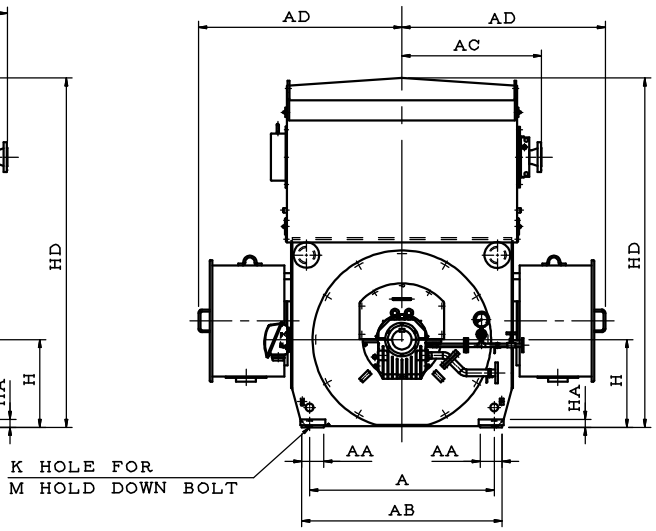


FIG 1



(A) FIG 2

02

DIMENSIONS IN MM

FRAME NO.	NO. OF POLES	MOUNTING									AC	AD	H	HA	HD	L	LE	SHAFT EXTENSION				KEY SIZE			BEARING		DWG	FRAME NO.
		A	AA	AB	B	BA	BB	C	K	M								D	E	EE	G	ED	F	GA	DRIVE END	OPP. D END		
630C	4P	1250	160	1400	1600	480	2100	560	55	M42	LATER	1349	630	58	2408	2988	478	200	350	337	185	280	45	210	18/200	18/180	FIG2	630C
	6P																										FIG1	
630D	4P	1250	160	1400	1800	480	2300	560	55	M42		1349	630	58	2408	3188	478	200	350	337	185	280	45	210	18/200	18/180	FIG2	630D
	6P																										FIG1	
630E	2P	1250	160	1400	2000	480	2500	560	55	M42		1352	630	58	2408	3293	483	140	250	244	128	200	36	148	14/140	14/125	FIG2	630E
	6P											1349				3388	478	200	350	337	185	280	45	210	18/200	18/180	FIG1	
710C	6P, 8P	1400	180	1570	1800	520	2350	600	55	M42		1499	710	50	2643	3263	513	220	350	337	203	280	50	231	18/225	18/200	FIG1	710C
710D	4P	1400	180	1570	2000	520	2550	600	55	M42		1499	710	50	2643	3463	513	220	350	337	203	280	50	231	18/225	18/200	FIG2	710D
	6P, 8P																										FIG1	
710E	6P, 8P	1400	180	1570	2240	520	2700	600	55	M42		1499	710	50	2643	3658	468	220	350	337	203	280	50	231	18/225	18/200	FIG1	710E

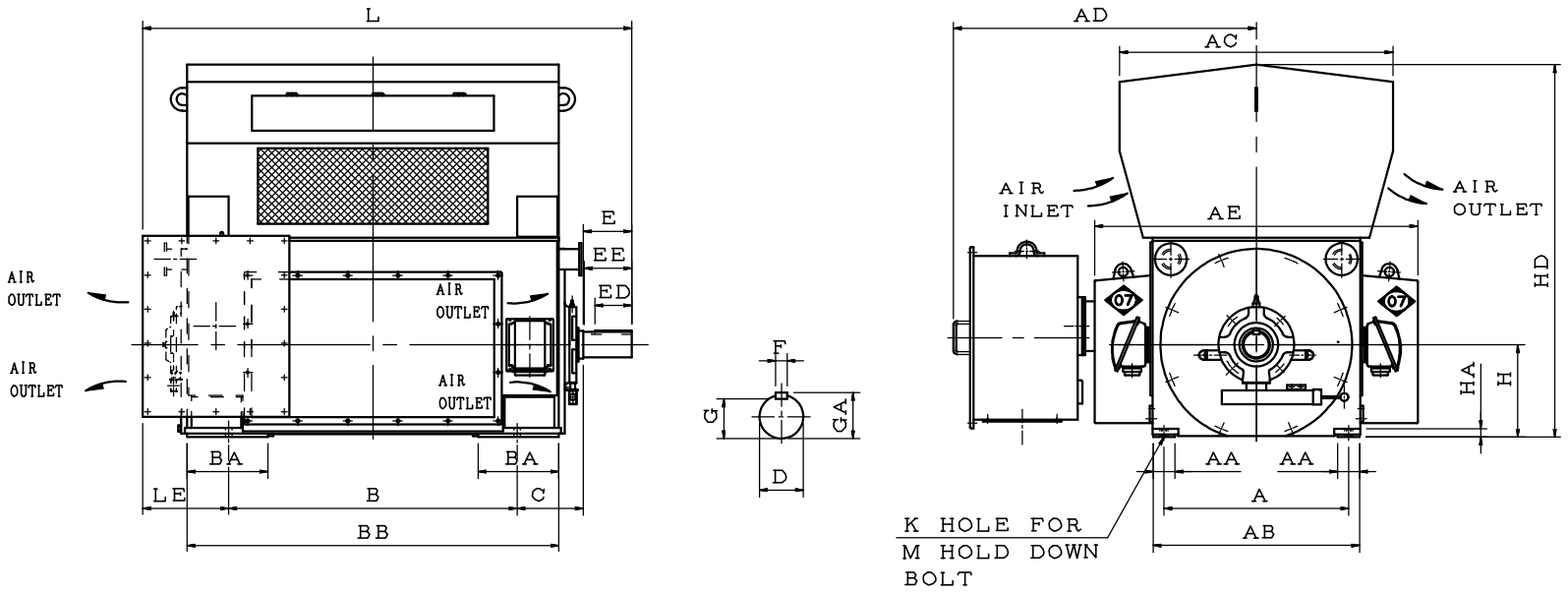
1. TOLERANCE OF SHAFT EXTENSION DIAMETER D=m6.
2. TOLERANCE OF SHAFT CENTER HEIGHT H=$^{0}_{-1}$
3. TOLERANCE OF KEY WIDTH F=h9.
4. USABLE SHAFT LENGTH:EE
5. SLEEVE BEARINGS (EXTERNAL OIL CIRCULATION).
6. PROVISION FOR NONCONTACTIVE VIBRATION PROBE, DISTANCE OF "C" HAVE TO BE CHANGED F#450:530, F#500:600, F#560:630, F#630:670, F#710:710

(A) ONE OF TERMINAL BOX IS NEURAL POINT T-BOX

OUTLINE DIMENSIONS SHEET

3-PHASE INDUCTION MOTOR
FRAME NO. (WZ)450B-710E

NEMA WEATHER PROTECTED TYPE I/II. SQUIRREL CAGE ROTOR.



DIMENSIONS IN MM

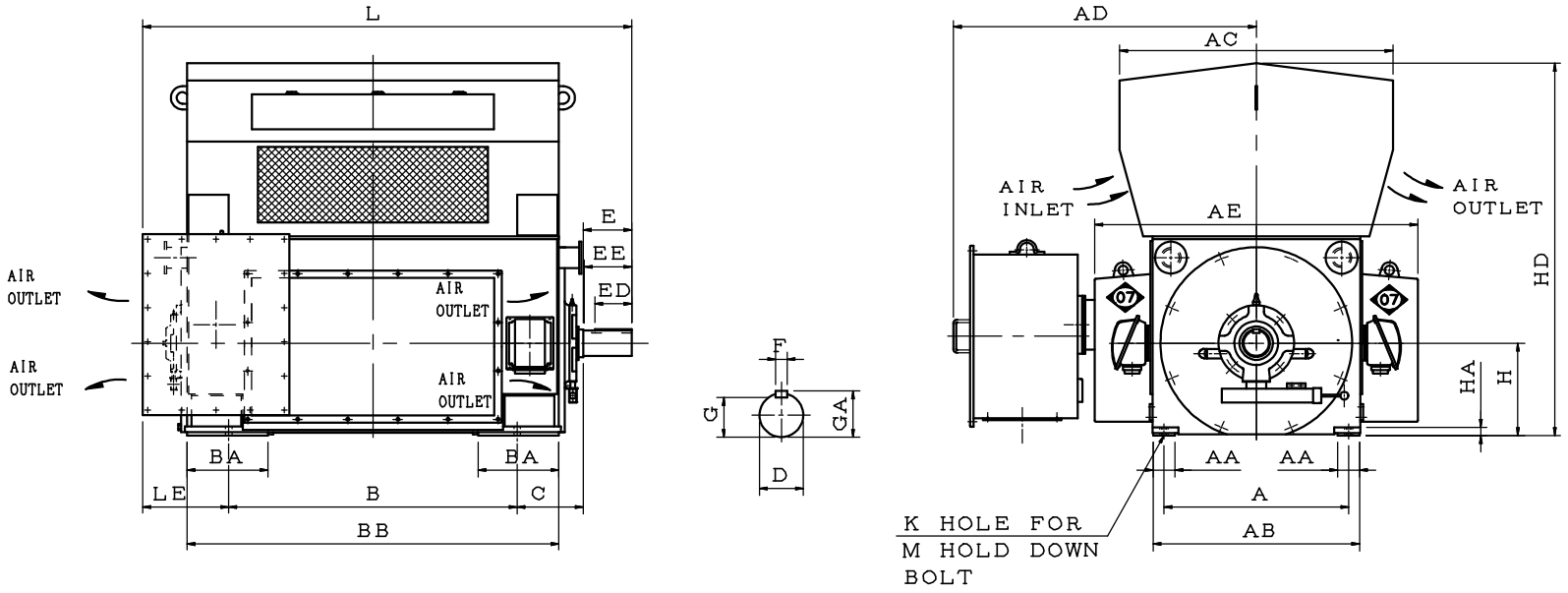
FRAME NO.	NO. OF POLES	MOUNTING									AC	AD	AE	H	HA	HD	L	LE	SHAFT EXTENSION				KEY SIZE			BEARING		FRAME NO.
		A	AA	AB	B	BA	BB	C	K	M									D	E	EE	G	ED	F	GA	DRIVE END	OPP. D END	
355B	4P&8P	710	85	790	800	280	1100	254	35	M24	1081	1100	990	355	37	1443	1616	352	110	210	200	100	160	28	116	6324	6320	355B
355C	6P	710	85	790	900	280	1200	254	35	M24	1081	1100	990	355	37	1443	1716	352	110	210	200	100	160	28	116	6324	6320	355C
355D	2P	710	85	790	1000	280	1300	254	35	M24	1081	1100	990	355	37	1443	1776	352	85	170	157	76	140	22	90	6218C3	6315C3	355D
355D	4P, 6P&8P	710	85	790	1000	280	1300	254	35	M24	1081	1100	990	355	37	1443	1816	352	110	210	200	100	160	28	116	6324	6320	355D
355E	4P&8P	710	85	790	1120	280	1420	254	35	M24	1081	1100	990	355	37	1443	1936	352	110	210	200	100	160	28	116	6324	6320	355E
400B	6P&8P	800	95	900	900	355	1260	280	42	M30	1185	1150	1110	400	37	1683	1762	372	125	210	202	114	160	32	132	6326	6322	400B
400C	4P&8P	800	95	900	1000	355	1360	280	42	M30	1185	1150	1110	400	37	1683	1862	372	125	210	202	114	160	32	132	6326	6322	400C
400D	4P, 6P&8P	800	95	900	1120	355	1480	280	42	M30	1185	1150	1110	400	37	1683	1982	372	125	210	202	114	160	32	132	6326	6322	400D
400E	4P&6P	800	95	900	1250	355	1610	280	42	M30	1185	1150	1110	400	37	1683	2112	372	125	210	202	114	160	32	132	6326	6322	400E

1. TOLERANCE OF SHAFT EXTENSION DIAMETER D=m6.
2. TOLERANCE OF SHAFT CENTER HEIGHT H=±
3. TOLERANCE OF KEY WIDTH F=h9.
4. USABLE SHAFT LENGTH:EE
5. ANTI-FRICTION BEARINGS.

OUTLINE DIMENSIONS SHEET

3-PHASE INDUCTION MOTOR
FRAME NO. (WZ)355B-710E

NEMA WEATHER PROTECTED TYPE I/II. SQUIRREL CAGE ROTOR.



DIMENSIONS IN MM

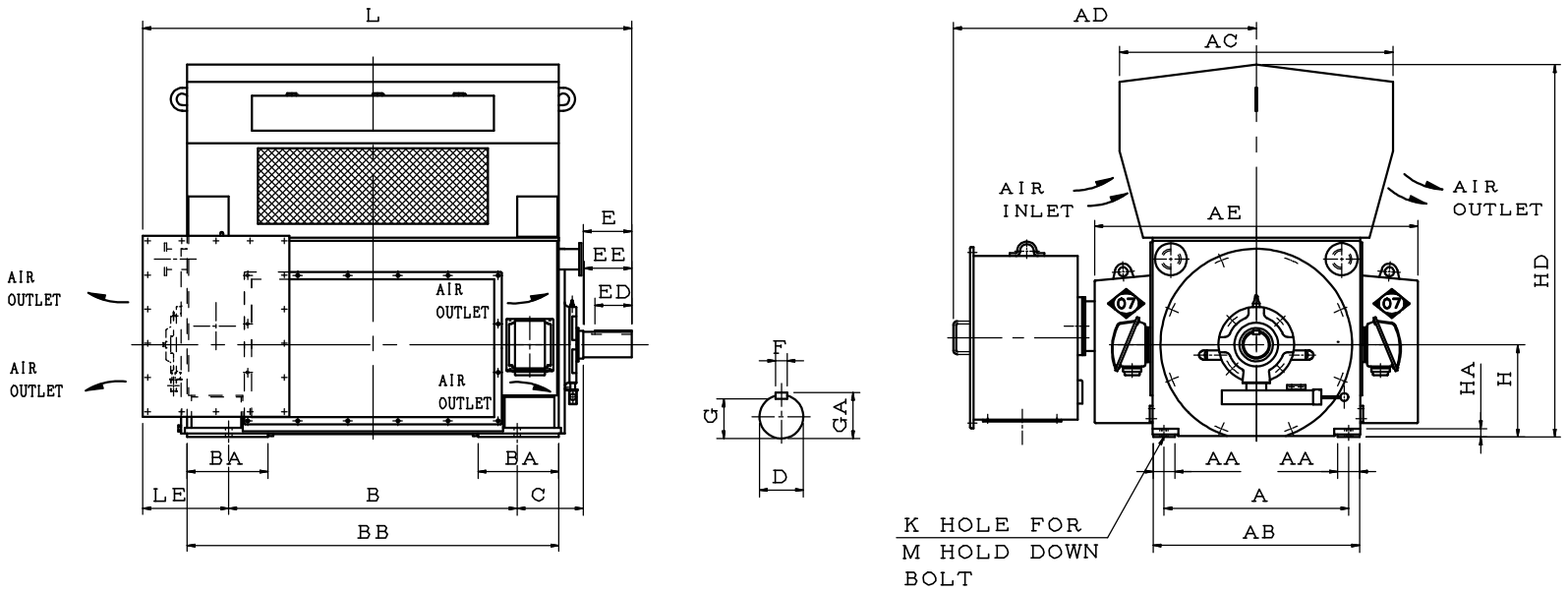
FRAME NO.	NO. OF POLES	MOUNTING									AC	AD	AE	H	HA	HD	L	LE	SHAFT EXTENSION				KEY SIZE			BEARING		FRAME NO.
		A	AA	AB	B	BA	BB	C	K	M									D	E	EE	G	ED	F	GA	DRIVE END	OPP. D END	
450B	4P, 6P&8P	900	100	990	1000	380	1420	315	42	M30	1290	1220	1240	450	36	1800	1902	377	125	210	202	114	160	32	132	6326	6322	450B
																	1942		140	250	240	128	200	36	148	6330	6326	
450C	8P	900	100	990	1120	380	1540	315	42	M30	1290	1220	1240	450	36	1800	2062	377	140	250	240	128	200	36	148	6330	6326	450C
450D	6P&8P	900	100	990	1250	380	1670	315	42	M30	1290	1220	1240	450	36	1800	2192	377	140	250	240	128	200	36	148	6330	6326	450D
500B	8P	1000	140	1150	1120	405	1570	335	48	M36	1475	1300	1400	500	36	2020	2137	382	160	300	290	147	250	40	169	6334	6330	500B
500C	6P	1000	140	1150	1250	405	1700	335	48	M36	1475	1300	1400	500	36	2020	2267	382	160	300	290	147	250	40	169	6334	6330	500C
500D	6P&8P	1000	140	1150	1400	405	1850	335	48	M36	1475	1300	1400	500	36	2020	2417	382	160	300	290	147	250	40	169	6334	6330	500D
560B	6P	1180	140	1280	1250	430	1700	355	55	M42	1675	1370	1540	560	51	2140	2247	342	180	300	290	165	250	45	190	6338	6334	560C
560C	6P&8P	1180	140	1280	1400	430	1850	355	55	M42	1675	1370	1540	560	51	2140	2397	342	180	300	290	165	250	45	190	6338	6334	560C
560D	6P&8P	1180	140	1280	1600	430	2050	355	55	M42	1675	1370	1540	560	51	2140	2597	342	180	300	290	165	250	45	190	6338	6334	560D
560E	6P&8P	1180	140	1280	1800	430	2250	355	55	M42	1675	1370	1540	560	51	2140	2797	342	180	300	290	165	250	45	190	6338	6334	560E

1. TOLERANCE OF SHAFT EXTENSION DIAMETER D=m6.
2. TOLERANCE OF SHAFT CENTER HEIGHT H=±
3. TOLERANCE OF KEY WIDTH F=h9.
4. USABLE SHAFT LENGTH:EE
5. ANTI-FRICTION BEARINGS.

OUTLINE DIMENSIONS SHEET

3-PHASE INDUCTION MOTOR
FRAME NO. (WZ)355B-710E

NEMA WEATHER PROTECTED TYPE I/II. SQUIRREL CAGE ROTOR.



DIMENSIONS IN MM

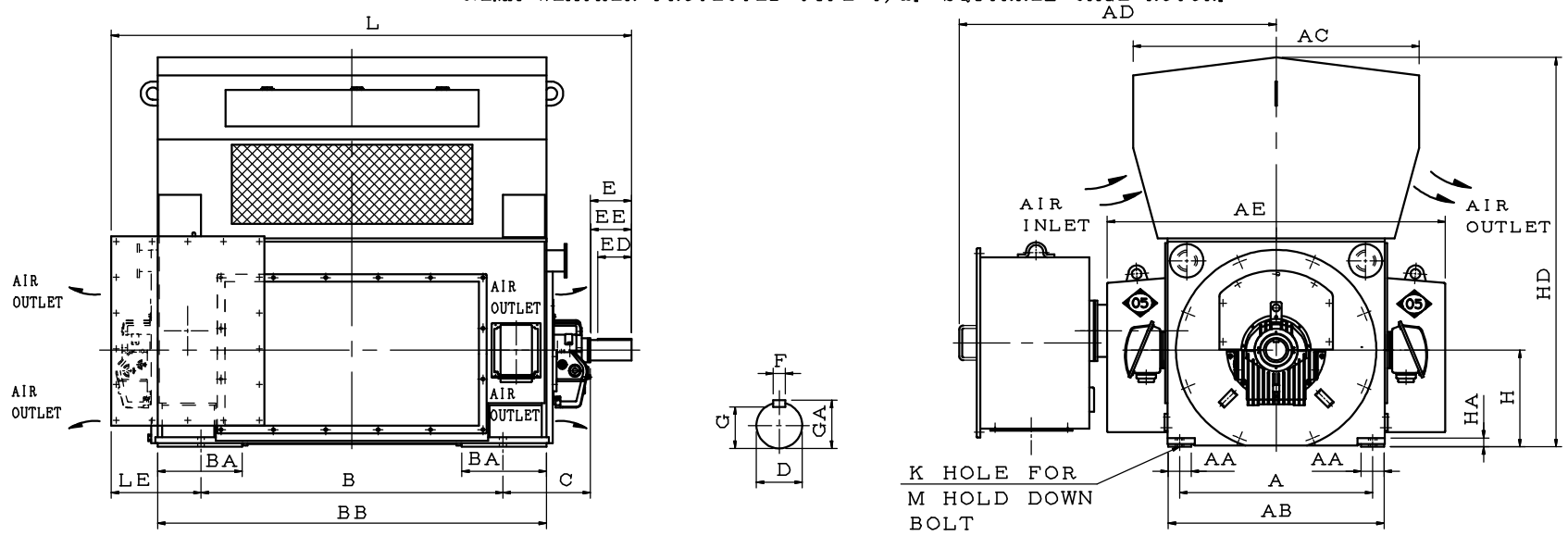
FRAME NO.	NO. OF POLES	MOUNTING									AC	AD	AE	H	HA	HD	L	LE	SHAFT EXTENSION				KEY SIZE			BEARING		FRAME NO.
		A	AA	AB	B	BA	BB	C	K	M									D	E	EE	G	ED	F	GA	DRIVE END	OPP. D END	
630C	6P&8P	1250	160	1400	1600	480	2100	450	55	M42	1750	1420	1640	630	58	2568	2802	477	200	350	337	185	280	45	210	NU244 +6044	NU238	630D
630D	6P&8P	1250	160	1400	1800	480	2300	450	55	M42	1750	1420	1640	630	58	2568	3002	477	200	350	337	185	280	45	210	NU244 +6044	NU238	630D
630E	6P&8P	1250	160	1400	2000	480	2500	450	55	M42	1750	1420	1640	630	58	2568	3202	477	200	350	337	185	280	45	210	NU244 +6044	NU238	630E
710C	6P&8P	1400	180	1570	1800	520	2350	475	55	M42	2150	1550	1890	710	50	2973	3127	502	220	350	337	203	280	50	231	NU248 +6048	NU244	710C
710D	6P&8P	1400	180	1570	2000	520	2550	475	55	M42	2150	1550	1890	710	50	2973	3327	502	220	350	337	203	280	50	231	NU248 +6048	NU244	710D
710E	6P&8P	1400	180	1570	2240	520	2700	475	55	M42	2150	1550	1890	710	50	2973	3522	457	220	350	337	203	280	50	231	NU248 +6048	NU244	710E

1. TOLERANCE OF SHAFT EXTENSION DIAMETER D=m6.
2. TOLERANCE OF SHAFT CENTER HEIGHT H=±
3. TOLERANCE OF KEY WIDTH F=h9.
4. USABLE SHAFT LENGTH:EE
5. ANTI-FRICTION BEARINGS.

OUTLINE DIMENSIONS SHEET

3-PHASE INDUCTION MOTOR
FRAME NO. (WZ)355B-710E

NEMA WEATHER PROTECTED TYPE I/II. SQUIRREL CAGE ROTOR.



DIMENSIONS IN MM

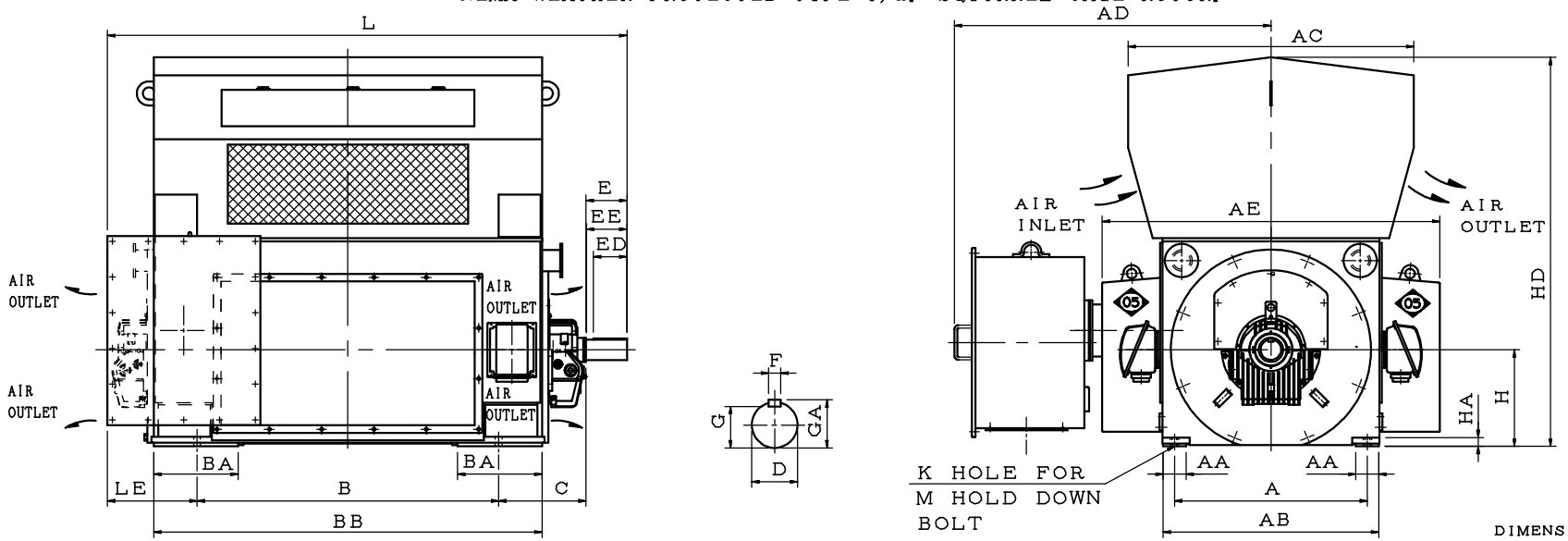
FRAME NO.	NO. OF POLES	MOUNTING									AC	AD	AE	H	HA	HD	L	LE	SHAFT EXTENSION			KEY SIZE				BEARING		FRAME NO.
		A	AA	AB	B	BA	BB	C	K	M									D	E	EE	G	ED	F	GA	DRIVE END	OPP. D END	
355B	4P	710	85	790	800	280	1100	355	35	M24	1081	1100	990	355	35	1443	1717	352	110	210	204	100	160	28	116	9S/100	9S/90	355B
	8P																									11/110	9/80	
355C	6P	710	85	790	900	280	1200	355	35	M24	1081	1100	990	355	35	1443	1817	352	110	210	204	100	160	28	116	11/110	9/80	355C
355D	2P	710	85	790	1000	280	1300	355	35	M24	1081	1100	990	355	35	1443	1877	352	85	170	164	76	140	22	90	9S/80	9S/80	355D
	4P																1917		110	210	204	100	160	28	116	9S/100	9S/90	
	6P&8P																1917		110	210	204	100	160	28	116	11/110	9/80	
355E	2P	710	85	790	1120	280	1420	355	35	M24	1081	1100	990	355	35	1443	1997	352	85	170	164	76	140	22	90	9S/80	9S/80	355E
	4P																2037		110	210	204	100	160	28	116	9S/100	9S/90	
	8P																2037		110	210	204	100	160	28	116	11/110	9/80	
400B	6P&8P	800	95	900	900	355	1260	400	42	M30	1185	1150	1110	400	36	1683	1882	372	125	210	204	114	160	32	132	11/125	11/110	400B
400C	2P	800	95	900	1000	355	1360	400	42	M30	1185	1150	1110	400	36	1683	1942	372	95	170	164	86	140	25	100	9S/90	9S/80	
	6P&8P																1982		125	210	204	114	160	32	132	11/125	11/110	400C
400D	2P	800	95	900	1120	355	1480	400	42	M30	1185	1150	1110	400	36	1683	2062	372	95	170	164	86	140	25	100	9S/90	9S/80	400D
400D	4P, 6P&8P	800	95	900	1120	355	1480	400	42	M30	1185	1150	1110	400	36	1683	2102	372	125	210	204	114	160	32	132	11/125	11/110	400D
400E	2P	800	95	900	1250	355	1610	400	42	M30	1185	1150	1110	400	36	1683	2192	372	95	170	164	86	140	25	100	9S/90	9S/80	400E
400E	4P&6P	800	95	900	1250	355	1610	400	42	M30	1185	1150	1110	400	36	1683	2232	372	125	210	204	114	160	32	132	11/125	11/110	400E

1. TOLERANCE OF SHAFT EXTENSION DIAMETER D=m6.
2. TOLERANCE OF SHAFT CENTER HEIGHT H=$^{0}_{-1}$
3. TOLERANCE OF KEY WIDTH F=h9.
4. **USABLE SHAFT LENGTH:EE**
5. SLEEVE BEARINGS SELF LUBRICATION(NATURAL COOLING).
6. PROVISION FOR NONCONTACTIVE VIBRATION PROBE, DISTANCE OF "C" HAVE TO BE CHANGED F⌗355:450, F⌗400:500, F⌗450:530, F⌗500:600, F⌗560:630, F⌗630:670

OUTLINE DIMENSIONS SHEET

3—PHASE INDUCTION MOTOR
FRAME NO. (WZ)355D—630E

NEMA WEATHER PROTECTED TYPE I/II. SQUIRREL CAGE ROTOR.



DIMENSIONS IN MM

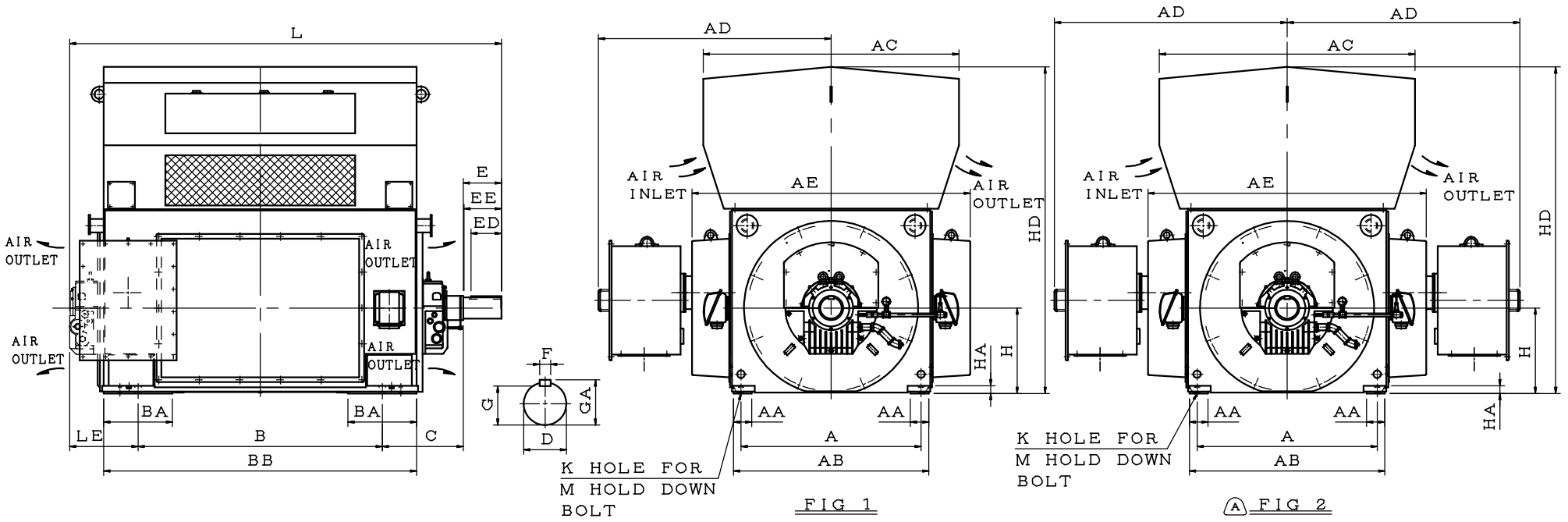
FRAME NO.	NO. OF POLES	MOUNTING									AC	AD	AE	H	HA	HD	L	LE	SHAFT EXTENSION				KEY SIZE			BEARING		FRAME NO.
		A	AA	AB	B	BA	BB	C	K	M									D	E	EE	G	ED	F	GA	DRIVE END	OPP. D END	
450B	6P&8P	900	100	990	1000	380	1420	450	42	M30	1290	1220	1240	450	36	1800	2077	377	140	250	244	128	200	36	148	14/140	11/125	450B
450C	8P	900	100	990	1120	380	1540	450	42	M30	1290	1220	1240	450	36	1800	2197	377	140	250	244	128	200	36	148	14/140	11/125	450C
450D	6P&8P	900	100	990	1250	380	1670	450	42	M30	1290	1220	1240	450	36	1800	2327	377	140	250	244	128	200	36	148	14/140	11/125	450D
500B	8P	1000	140	1150	1120	405	1570	500	48	M36	1475	1300	1400	500	36	2020	2323	403	160	300	294	147	250	40	169	14/160	11/125	500B
500C	6P	1000	140	1150	1250	405	1700	500	48	M36	1475	1300	1400	500	36	2020	2453	403	160	300	294	147	250	40	169	14/160	11/125	500C
500D	6P&8P	1000	140	1150	1400	405	1850	500	48	M36	1475	1300	1400	500	36	2020	2603	403	160	300	294	147	250	40	169	14/160	11/125	500D
560B	6P	1180	140	1280	1250	430	1700	530	55	M42	1675	1370	1540	560	51	2140	2508	428	180	300	287	165	250	45	190	18/180	14/140	560B
560C	6P&8P	1180	140	1280	1400	430	1850	530	55	M42	1675	1370	1540	560	51	2140	2658	428	180	300	287	165	250	45	190	18/180	14/140	560C
560D	6P&8P	1180	140	1280	1600	430	2050	530	55	M42	1675	1370	1540	560	51	2140	2858	428	180	300	287	165	250	45	190	18/180	14/140	560D
560E	6P&8P	1180	140	1280	1800	430	2250	530	55	M42	1675	1370	1540	560	51	2140	3058	428	180	300	287	165	250	45	190	18/180	14/140	560E
630C	8P	1250	160	1400	1600	480	2100	560	55	M42	1750	1420	1640	630	58	2568	2988	478	200	350	337	185	280	45	210	18/200	18/180	630D
630D	8P	1250	160	1400	1800	480	2300	560	55	M42	1750	1420	1640	630	58	2568	3188	478	200	350	337	185	280	45	210	18/200	18/180	630D
630E	8P	1250	160	1400	2000	480	2500	560	55	M42	1750	1420	1640	630	58	2568	3388	478	200	350	337	185	280	45	210	18/200	18/180	630E

1. TOLERANCE OF SHAFT EXTENSION DIAMETER D=m6.
2. TOLERANCE OF SHAFT CENTER HEIGHT H=$^{0}_{-1}$
3. TOLERANCE OF KEY WIDTH F=h9.
4. USABLE SHAFT LENGTH:EE
5. SLEEVE BEARINGS SELF LUBRICATION(NATURAL COOLING).
6. PROVISION FOR NONCONTACTIVE VIBRATION PROBE, DISTANCE OF "C" HAVE TO BE CHANGED F#355:450, F#400:500, F#450:530, F#500:600, F#560:630, F#630:670

OUTLINE DIMENSIONS SHEET

3—PHASE INDUCTION MOTOR
FRAME NO. (WZ)355D—630E

NEMA WEATHER PROTECTED TYPE I/II . SQUIRREL CAGE ROTOR.



DIMENSIONS IN MM

FRAME NO.	NO. OF POLES	MOUNTING A	AA	AB	B	BA	BB	C	K	M	AC	AD	AE	H	HA	HD	L	LE	SHAFT EXTENSION D	E	EE	G	KEY SIZE ED	F	GA	BEARING DRIVE END	OPP. D END	DWG	FRAME NO.
450B	4P	900	100	990	1000	380	1420	450	42	M30	1290	1220	1240	450	36	1800	2077	377	140	250	244	128	200	36	148	14/140	11/125	FIG 1	450B
450C	2P	900	100	990	1120	380	1540	450	42	M30	1290	1220	1240	450	36	1800	2157	377	110	210	204	100	160	28	116	11/110	9/80	FIG 1	450C
450D	2P	900	100	990	1250	380	1670	450	42	M30	1290	1220	1240	450	36	1800	2287	377	110	210	204	100	160	28	116	11/110	9/80	FIG 1	450D
	4P																2327		140	250	244	128	200	36	148	14/140	11/125		
450E	2P	900	100	990	1400	380	1820	450	42	M30	1290	1220	1240	450	36	1800	2437	377	110	210	204	100	160	28	116	11/110	9/80	FIG 1	450E
500C	2P	1000	140	1150	1250	405	1700	500	48	M36	1475	1300	1400	500	36	2020	2363	403	125	210	204	114	160	32	132	11/125	11/110	FIG 1	500C
	4P																2453		160	300	294	147	250	40	169	14/160	11/125		
500D	2P	1000	140	1150	1400	405	1850	500	48	M36	1475	1300	1400	500	36	2020	2513	403	125	210	204	114	160	32	132	11/125	11/110	FIG 1	500D
	4P																2603		160	300	294	147	250	40	169	14/160	11/125		
500E	2P	1000	140	1150	1600	405	2050	500	48	M36	1475	1300	1400	500	36	2020	2713	403	125	210	204	114	160	32	132	11/125	11/110	FIG 2	500E
560C	4P	1180	140	1280	1400	430	1850	530	55	M42	1675	1370	1540	560	51	2140	2658	428	180	300	287	165	250	45	190	18/180	14/140	FIG 1	560C
560D	2P	1180	140	1280	1600	430	2050	530	55	M42	1675	1370	1540	560	51	2140	2743	403	125	210	204	114	160	32	132	14/125	11/110	FIG 2	560D
	4P																2858	428	180	300	287	165	250	45	190	18/180	14/140		

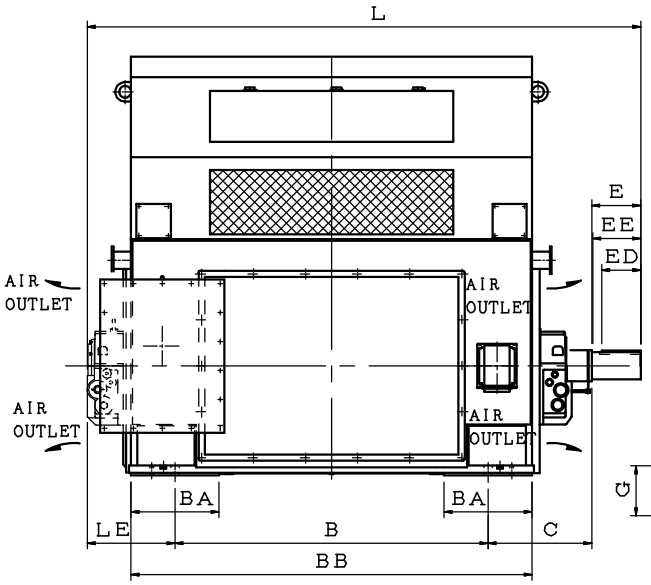
1. TOLERANCE OF SHAFT EXTENSION DIAMETER D=m6.
2. TOLERANCE OF SHAFT CENTER HEIGHT H=±
3. TOLERANCE OF KEY WIDTH F=h9.
4. USABLE SHAFT LENGTH:EE
5. SLEEVE BEARINGS (EXTERNAL OIL CIRCULATION).
6. PROVISION FOR NONCONTACTIVE VIBRATION PROBE, DISTANCE OF "C" HAVE TO BE CHANGED F#450:530, F#500:600, F#560:630, F#630:670, F#710:710

(A) ONE OF TERMINAL BOX IS NEURAL POINT T-BOX

OUTLINE DIMENSIONS SHEET

3-PHASE INDUCTION MOTOR
FRAME NO. (WZ)450B-710E

NEMA WEATHER PROTECTED TYPE I/II . SQUIRREL CAGE ROTOR.



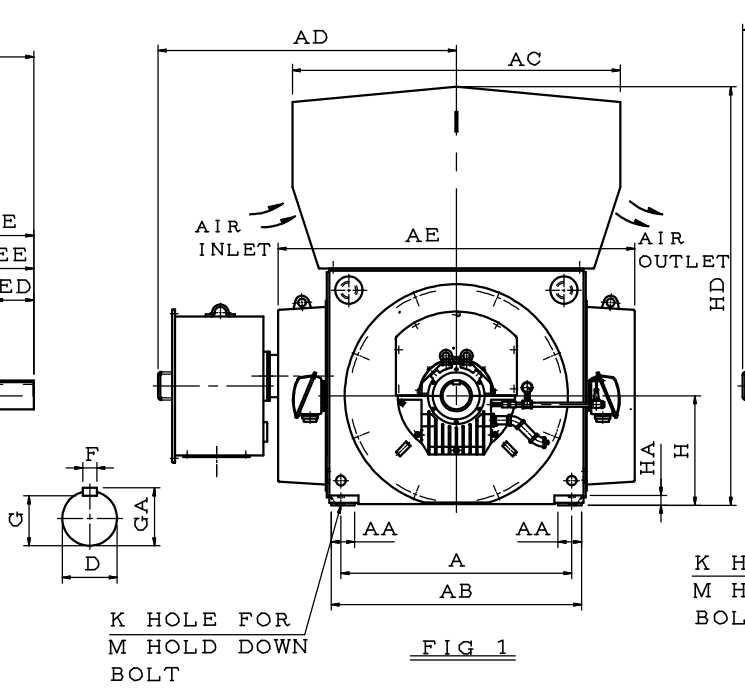
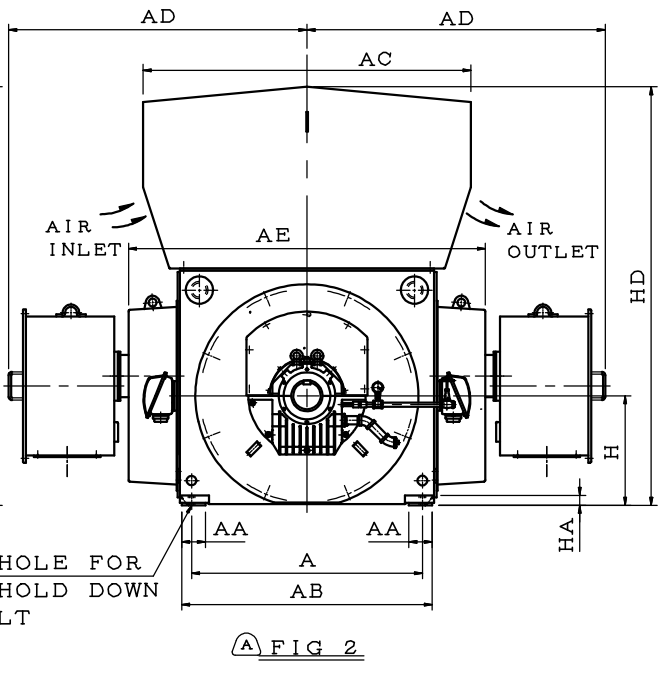


FIG 1



Ⓐ FIG 2

DIMENSIONS IN MM

FRAME NO.	NO. OF POLES	MOUNTING A	AA	AB	B	BA	BB	C	K	M	AC	AD	AE	H	HA	HD	L	LE	SHAFT EXTENSION D	E	EE	G	KEY SIZE ED	F	GA	BEARING DRIVE END	OPP. D END	DWG	FRAME NO.
630C	4P	1250	160	1400	1600	480	2100	560	55	M42	1750	1420	1640	630	58	2568	2988	478	200	350	337	185	280	45	210	18/200	18/180	FIG 2	630C
	6P																											FIG 1	
630D	4P	1250	160	1400	1800	480	2300	560	55	M42	1750	1420	1640	630	58	2568	3188	478	200	350	337	185	280	45	210	18/200	18/180	FIG 2	630D
	6P																											FIG 1	
630E	2P	1250	160	1400	2000	480	2500	560	55	M42	1750	1420	1640	630	58	2568	3293	483	140	250	244	128	200	36	148	14/140	14/125	FIG 2	630E
630E	6P	1250	160	1400	2000	480	2500	560	55	M42	1750	1420	1640	630	58	2568	3388	478	200	350	337	185	280	45	210	18/200	18/180	FIG 1	630E
710C	6P&8P	1400	180	1570	1800	520	2350	600	55	M42	2150	1550	1890	710	50	2973	3263	513	220	350	337	203	280	50	231	18/225	18/200	FIG 1	710C
710D	4P	1400	180	1570	2000	520	2550	600	55	M42	2150	1550	1890	710	50	2973	3463	513	220	350	337	203	280	50	231	18/225	18/200	FIG 2	710D
	6P&8P																											FIG 1	
710E	6P&8P	1400	180	1570	2240	520	2700	600	55	M42	2150	1550	1890	710	50	2973	3658	468	220	350	337	203	280	50	231	18/225	18/200	FIG 1	710E

1. TOLERANCE OF SHAFT EXTENSION DIAMETER D=m6.
2. TOLERANCE OF SHAFT CENTER HEIGHT H=±
3. TOLERANCE OF KEY WIDTH F=h9.
4. USABLE SHAFT LENGTH:EE
5. SLEEVE BEARINGS (EXTERNAL OIL CIRCULATION).
6. PROVISION FOR NONCONTACTIVE VIBRATION PROBE, DISTANCE OF "C" HAVE TO BE CHANGED F#450:530, F#500:600, F#560:630, F#630:670, F#710:710

Ⓐ ONE OF TERMINAL BOX IS NEURAL POINT T-BOX

OUTLINE DIMENSIONS SHEET

3-PHASE INDUCTION MOTOR
FRAME NO. (WZ)450B-710E