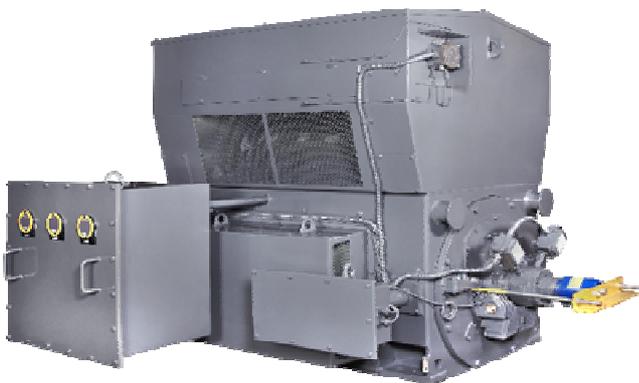


# 半密型ODP, WPI, WPII及水冷式馬達

**MODEL : ASZK,AMZK,ANZK,AEZW**

STANDARD 3-PHASE INDUCTION MOTORS  
HIGH VOLTAGE (6600V/60Hz) SQUIRREL CAGE  
FRAME NO. (SZ)&(EZ) 355C ~ 900D



		<b>SPECIFICATION TABLE</b>	MODEL
		<b>STANDARD 3-PHASE INDUCTION MOTORS HIGH VOLTAGE SQUIRREL CAGE</b>	ASZK,AMZK,ANZK,AEZW
			<b>6600V 60Hz</b>
<b>ITEM</b>		<b>STANDARD SPECIFICATION</b>	
<b>R A T I N G</b>	KIND OF MOTOR	SQUIRREL-CAGE INDUCTION MOTOR (SCIM)	
	DESIGN STANDARD	IEC	
	VOLTAGE	6600V	
	FREQUENCY	60Hz	
	FRAME NO. (SZ & EZ)	355C ~ 900D	
	OUTPUT RANGE	400 ~ 20000HP (300 ~ 14900kW) 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 (WP II); 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)		
<b>A P P L I C A T I O N</b>	POWER CONDITIONS	VOLTAGE $\pm 10\%$ , FREQUENCY $\pm 5\%$ AND 10% MAX. OF COMBINED VOLTAGE AND FREQUENCY WITH FREQUENCY NOT TO EXCEED 5%	
	ENVIRONMENT CONDITIONS	DP, WP I : INDOOR; WP II, TEWAC : OUTDOOR, NON-HAZARDOUS AMBIENT TEMPERATURE : -18 ~ 40°C ( OIL SUMP HEATER IS NOT TECO'S SCOPE ) WATER INLET TEMPERATURE : 5~30°C , (DERATING IS REQUIRED FOR TEMPERATURE HIGHTER THAN 30 °C) 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. 3A057H483E 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		

ITEM		STANDARD SPECIFICATION
APPLICATION	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
PERFORMANCE	TEST PROCEDURE	IEC 60034, IEEE 112
	TYPICAL PERFORMANCE TEMPERATURE RISE	AS DWG NO. 3A057H483E, VALUES IN TABLE IS NOMINAL NEMA DESIGN B STATOR COIL : ( ACCORDING TO NEMA MG1-2003 ) S.F. 1.0 80°C BY RESISTANCE METHOD • RECOMMEND TEMPERATURE SETTINGS : ALARM 140°C ; TRIP 155°C BEARINGS : SLEEVE BEARINGS : 53°C AT RATED LOAD ANTI-FRICTION BEARINGS : 55°C AT RATED LOAD • RECOMMEND TEMPERATURE SETTINGS : ALARM 95°C ; TRIP 100°C
	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

<b>PERFORMANCE DATA</b>																MODEL	
<b>3-PHASE SQUIRREL CAGE INDUCTION MOTORS</b>																ASZK,AMZK,ANZK,AEZW	
<b>HIGH VOLTAGE SQUIRREL CAGE</b>																6600V	
<b>TYPICAL PERFORMANCE</b>																60HZ	

ODP,WPI,WPII,BS,DESIGN-B,CLASS F INS,CLASS B TEMP,40°C AMBIENT,S.F.1.0  
2P 6600V 60HZ

**TYPICAL PERFORMANCE**

OUTPUT		FULL	FRAME	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE			ROTOR	Max. Load	APPROX. WEIGHT (1)	APPROX. WEIGHT (2)
HP	(kW)	LOAD	NO.	FULL	3/4	1/2	FULL	3/4	1/2	Rated	Starting	Starting	Rated	Starting	Max.	GD <sup>2</sup>	GD <sup>2</sup>	KGS	KGS
		RPM	(SZ) (EZ)	LOAD	LOAD	LOAD	LOAD	LOAD	LOAD	A	%	A	KG-M	%FLT	%FLT	KG-M <sup>2</sup>	KG-M <sup>2</sup>		
1000	750	3568	355D-85R	94.5	94.4	93.8	88.5	87.3	83.0	78	557	435	204	60	200	17	110	2400	2850
1250	930	3565	355D-85R	94.9	94.8	94.2	89.0	88.5	85.2	97	535	517	255	60	210	18	130	2550	3000
1500	1120	3566	355E-85U	95.1	95.0	94.4	89.0	88.2	84.4	116	519	600	306	60	220	23	148	2700	3150
1750	1320	3565	355E-85U	95.2	95.1	94.5	89.0	88.2	84.5	135	520	701	357	60	220	24	165	2750	3200
2000	1500	3568	400D-95U	95.6	95.5	94.9	88.8	87.7	83.5	154	547	841	408	70	210	35	180	3300	3700
2250	1680	3569	400E-95U	95.7	95.6	95.0	89.8	88.7	84.8	171	591	1010	459	70	220	40	194	3550	3950
2500	1850	3570	400E-95U	96.0	95.9	95.3	89.7	88.3	83.9	189	621	1177	510	80	240	42	206	3700	4100
3000	2240	3568	400E-95U	96.0	95.9	95.3	89.6	88.4	84.4	228	588	1338	612	80	220	43	228	3750	4150
3500	2650	3576	450D-110V	96.1	96.0	95.4	90.5	89.1	84.9	263	649	1704	712	90	250	65	244	4750	5350
4000	3000	3572	450D-110V	96.2	96.1	95.5	90.9	90.2	87.2	299	579	1728	815	80	220	67	258	4850	5450
4500	3360	3574	450E-110V	96.2	96.1	95.5	91.3	90.4	87.2	334	630	2106	916	90	230	74	267	5200	5800
5000	3750	3576	450E-110V	96.3	96.2	95.6	91.2	89.8	85.6	372	714	2653	1017	100	250	80	208	5400	6000
5500	4100	3577	500E-125V	96.2	96.1	95.5	91.0	90.7	88.4	410	551	2259	1119	70	200	114	214	6950	7550
6000	4500	3576	500E-125V	96.2	96.1	95.5	91.1	91.2	89.5	447	517	2310	1221	70	210	118	227	7100	7700
6500	4850	3575	500E-125V	96.3	96.2	95.6	91.1	91.3	89.9	484	507	2451	1323	70	210	123	237	7250	7850
7000	5200	3577	500E-125V	96.4	96.3	95.7	91.4	91.2	89.2	518	558	2893	1424	80	200	130	249	7650	8250
7500	5600	3585	560D-125V	96.5	96.4	95.8	91.4	91.2	89.3	555	583	3235	1522	70	210	185	256	9150	9850
8000	6000	3584	560D-125V	96.5	96.4	95.8	91.6	91.6	90.1	591	560	3307	1624	60	200	191	267	9350	10050
9000	6700	3588	630D-140V	97.1	97.0	96.4	92.4	91.7	89.0	655	712	4661	1825	70	250	310	273	14000	14700
10000	7500	3587	630D-140V	97.1	97.0	96.4	92.6	92.3	90.5	726	624	4529	2028	60	230	337	284	14800	15500
11000	8200	3587	630E-140V	97.2	97.1	96.5	92.7	92.6	91.0	797	629	5011	2231	60	230	364	292	15750	16450

**NOTES :**

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,BS,DESIGN-B,CLASS F INS,CLASS B TEMP,40°C AMBIENT,S.F.1.0

4P 6600V 60HZ

TYPICAL PERFORMANCE

OUTPUT		FULL	FRAME	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE			ROTOR	Max. Load	APPROX. WEIGHT (1)	APPROX. WEIGHT (2)
HP	(kW)	LOAD RPM	NO. (SZ) (EZ)	FULL	3/4	1/2	FULL	3/4	1/2	Rated	Starting	Starting	Rated	Starting	Max.	GD <sup>2</sup>	GD <sup>2</sup>	KGS	KGS
				LOAD	LOAD	LOAD	LOAD	LOAD	LOAD	LOAD	LOAD	A	%	A	KG-M	%FLT	%FLT		
800	600	1782	355D-110R	95.1	95.0	94.1	83.5	79.7	70.7	66	589	387	327	70	230	38	731	2400	2850
900	670	1782	355D-110R	95.1	95.0	94.1	83.6	79.9	71.1	74	584	431	367	70	230	40	807	2450	2900
1000	750	1782	355D-110R	95.2	95.1	94.2	83.5	79.6	70.6	82	598	491	408	70	230	42	881	2500	2950
1250	930	1781	355E-110R	95.4	95.3	94.4	84.5	81.5	73.7	101	563	570	511	70	220	47	1060	2750	3200
1500	1120	1785	400C-125R	95.7	95.6	94.7	84.6	81.0	72.6	121	632	764	611	70	240	66	1219	3400	3800
1750	1320	1785	400D-125R	95.9	95.8	94.9	85.4	82.2	74.4	139	640	892	713	70	240	75	1375	3700	4100
2000	1500	1786	400D-125R	95.9	95.8	94.9	85.0	81.5	73.0	160	678	1086	815	70	250	82	1520	3900	4300
2250	1680	1785	450B-125R	95.9	95.8	94.9	87.0	84.9	78.7	176	579	1019	917	60	220	110	1661	4050	4650
2500	1850	1786	450C-140V	96.2	96.1	95.2	87.4	85.1	78.9	194	614	1191	1018	70	230	124	1790	4500	5100
3000	2240	1785	450D-140V	96.2	96.1	95.2	86.9	84.6	78.3	234	595	1393	1223	70	220	129	2036	4750	5350
3500	2650	1786	450D-140V	96.4	96.3	95.4	86.8	84.0	76.9	273	674	1840	1426	80	250	149	2251	5150	5750
4000	3000	1788	500C-160V	96.5	96.4	95.5	87.8	85.9	80.2	308	620	1910	1628	70	220	234	2439	6150	6750
4500	3360	1787	500C-160V	96.5	96.4	95.5	88.1	86.6	81.8	345	577	1993	1832	60	210	244	2616	6300	6900
5000	3750	1788	500D-160V	96.6	96.5	95.6	87.6	85.5	79.6	386	640	2468	2035	70	230	266	2766	6750	7350
5500	4100	1788	500D-160V	96.6	96.5	95.6	87.6	85.5	79.5	424	646	2740	2238	70	230	281	2901	7000	7600
6000	4500	1789	560C-180V	96.7	96.6	95.7	87.4	85.6	80.3	463	609	2821	2440	70	220	395	3013	8400	9100
6500	4850	1789	560D-180V	96.8	96.7	95.8	87.9	86.4	81.5	499	613	3056	2644	70	210	433	3114	9250	9950
7000	5200	1789	560D-180V	96.8	96.7	95.8	87.9	86.3	81.3	537	626	3361	2847	70	220	458	3199	9550	10250
7500	5600	1791	630C-200V	97.0	96.9	96.0	90.1	89.2	85.7	560	580	3248	3047	60	220	736	3257	11250	11950
8000	6000	1791	630C-200V	97.0	96.9	96.0	90.1	89.1	85.5	597	588	3512	3250	60	220	762	3311	11500	12200
9000	6700	1791	630D-200V	97.1	97.0	96.1	90.6	89.7	86.4	668	601	4012	3656	60	220	856	3378	12600	13300
10000	7500	1791	630D-200V	97.1	97.0	96.1	90.6	89.7	86.2	742	624	4629	4063	60	230	934	3392	13300	14000
11000	8200	1791	630E-200V	97.1	97.0	96.1	90.9	90.2	87.2	813	610	4961	4469	60	220	1013	3442	14350	15050
12000	8950	1790	710D-220V	96.9	96.8	95.9	92.1	91.3	88.5	877	611	5361	4878	50	240	1393	3564	18500	19350
13000	9700	1790	710D-220V	96.9	96.8	95.9	92.2	91.4	88.5	950	623	5916	5284	60	250	1472	3635	19350	20200
14000	10450	1790	710E-220V	97.0	96.9	96.0	92.7	92.1	89.8	1016	621	6310	5691	60	250	1632	3762	20620	21470
15000	11200	1791	800D-240V	96.9	96.8	95.9	90.8	89.6	85.9	1113	679	7554	6094	60	250	2157	3840	27600	27800
16000	11950	1790	800D-240V	96.9	96.8	95.9	90.9	90.2	87.3	1185	620	7350	6504	60	230	2214	3993	27900	28100
17000	12700	1792	900B-240V	96.8	96.7	95.8	92.1	91.5	89.0	1244	610	7591	6902	60	240	2756	4085	28900	29100
18000	13400	1792	900B-240V	96.8	96.7	95.8	92.5	91.7	88.9	1312	673	8829	7308	60	250	2967	4146	30100	30300
19000	14150	1792	900C-240V	96.8	96.7	95.8	92.6	92.1	90.0	1383	622	8604	7715	60	240	3058	4287	31400	31600
20000	14900	1793	900C-240V	96.9	96.8	95.9	92.7	92.0	89.5	1453	694	10084	8116	60	250	3436	4377	33000	33200

NOTES :

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 sinewave, 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,BS,DESIGN-B,CLASS F INS,CLASS B TEMP,40°C AMBIENT,S.F.1.0  
6P 6600V 60HZ

TYPICAL PERFORMANCE

OUTPUT		FULL LOAD RPM	FRAME NO. (SZ) (EZ)	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE			ROTOR GD <sup>2</sup> KG-M <sup>2</sup>	Max. Load GD <sup>2</sup> KG-M <sup>2</sup>	APPROX. WEIGHT (1) KGS	APPROX. WEIGHT (2) KGS
HP	(kW)			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				
600	450	1185	355C-110R	94.1	94.0	92.9	83.0	80.3	72.8	50	489	245	368	70	200	48	1784	2300	2850
700	520	1186	355D-110R	94.1	94.0	92.9	81.6	78.0	69.1	59	518	308	429	80	220	51	2039	2400	2950
800	600	1186	355D-110R	94.3	94.2	93.1	81.6	78.0	69.2	68	523	355	491	80	200	55	2292	2550	3100
900	670	1189	400B-125R	95.0	94.9	93.8	84.2	80.9	72.7	73	590	433	551	60	220	86	2523	3100	3550
1000	750	1189	400C-125R	95.1	95.0	93.9	84.5	81.3	73.3	81	590	479	612	60	220	92	2763	3300	3750
1250	930	1189	400D-125R	95.3	95.2	94.1	85.0	82.0	74.4	101	600	604	765	70	220	108	3341	3600	4050
1500	1120	1187	450B-140R	95.1	95.0	93.9	83.4	80.2	72.1	123	545	673	919	60	210	138	3910	4000	4650
1750	1320	1189	450B-140R	95.3	95.2	94.1	82.6	78.5	69.2	145	607	881	1071	80	230	156	4422	4250	4900
2000	1500	1189	450C-140R	95.5	95.4	94.3	82.7	78.4	68.7	165	657	1086	1224	90	250	182	4929	4600	5250
2250	1680	1189	450D-140R	95.6	95.5	94.4	84.3	80.8	72.4	182	641	1168	1377	80	240	209	5416	5150	5800
2500	1850	1189	500B-160R	95.9	95.8	94.7	83.1	79.4	70.8	205	582	1191	1530	70	220	268	5885	5650	6300
3000	2240	1190	500C-160R	96.0	95.9	94.8	83.1	79.3	70.4	245	609	1495	1834	70	230	311	6757	6300	6950
3500	2650	1190	500D-160R	96.2	96.1	95.0	83.8	80.0	71.2	283	649	1839	2140	80	250	375	7581	7150	7800
4000	3000	1190	560B-180R	96.3	96.2	95.1	85.9	83.5	77.0	316	553	1745	2446	60	210	497	8349	7550	8300
4500	3360	1191	560C-180R	96.4	96.3	95.2	86.0	83.4	76.4	354	588	2083	2749	60	220	553	9045	8450	9200
5000	3750	1191	560D-180R	96.4	96.3	95.2	86.2	83.7	76.9	393	594	2332	3055	70	220	605	9711	9150	9900
5500	4100	1191	560D-180R	96.4	96.3	95.2	86.4	83.8	77.0	431	615	2650	3360	70	230	670	10333	9750	10500
6000	4500	1194	630D-200R	97.0	96.9	95.8	84.4	82.3	75.9	478	621	2970	3656	80	210	1086	10836	12150	12900
6500	4850	1194	630D-200R	97.0	96.9	95.8	84.2	81.9	75.1	519	639	3319	3961	80	220	1149	11370	12600	13350
7000	5200	1194	630E-200R	97.1	97.0	95.9	84.4	82.0	75.1	557	656	3657	4266	80	200	1254	11865	13500	14250
7500	5600	1194	630E-200R	97.1	97.0	95.9	84.9	83.4	77.8	594	599	3556	4570	80	200	1286	12323	13700	14450
8000	6000	1194	630E-200R	97.1	97.0	95.9	84.4	82.2	75.5	637	650	4141	4875	90	220	1357	12746	14200	14950
9000	6700	1194	710D-220R	97.0	96.9	95.8	85.7	85.2	81.3	707	518	3660	5484	60	180	1779	13490	17900	19800
10000	7500	1194	710D-220R	97.1	97.0	95.9	85.9	85.5	81.8	782	519	4061	6094	60	180	1936	14106	18500	20750
11000	8200	1194	710E-220R	97.1	97.0	95.9	86.1	85.8	82.2	859	525	4508	6703	60	180	2142	14601	19950	19300
12000	8950	1193	800C-240V	97.0	96.9	95.8	86.7	85.7	81.2	931	527	4907	7319	60	200	2556	15022	25400	25600
13000	9700	1193	800D-260V	97.1	97.0	95.9	86.5	85.0	79.9	1010	557	5626	7929	60	210	2824	15295	27400	27600
14000	10450	1194	800D-260V	97.1	97.0	95.9	86.2	84.0	77.7	1092	622	6789	8531	60	210	2980	15421	27900	28100
15000	11200	1194	900B-260V	97.0	96.9	95.8	88.3	86.8	82.1	1143	619	7074	9141	60	210	3621	15489	28500	28700
16000	11950	1194	900B-260V	97.0	96.9	95.8	88.3	86.7	81.9	1219	635	7741	9750	60	220	3833	15569	29100	29300
17000	12700	1194	900C-280V	97.0	96.9	95.8	88.6	87.1	82.5	1291	647	8352	10359	60	220	4185	15645	31200	31400
18000	13400	1194	900C-280V	97.1	97.0	95.9	88.8	87.2	82.3	1362	674	9182	10969	60	230	4535	15732	32200	32400
19000	14150	1194	900D-280V	97.1	97.0	95.9	88.7	86.8	81.5	1440	716	10308	11578	70	250	4884	15831	34200	34400

NOTES :

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 sinewave, 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,BS,DESIGN-B,CLASS F INS,CLASS B TEMP,40°C AMBIENT,S.F.1.0

8P 6600V 60HZ

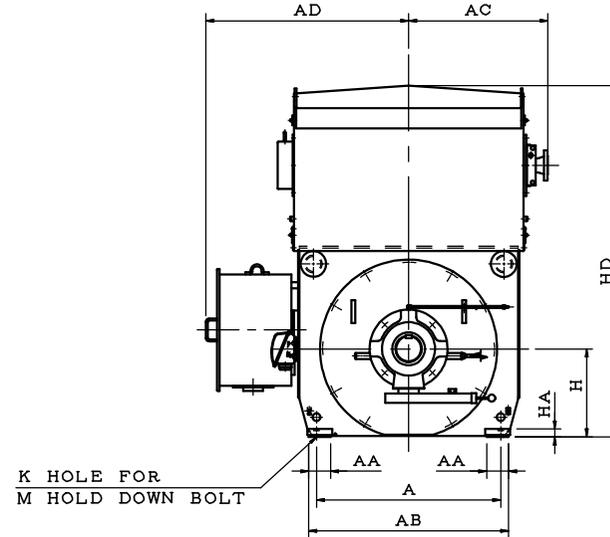
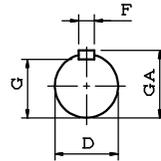
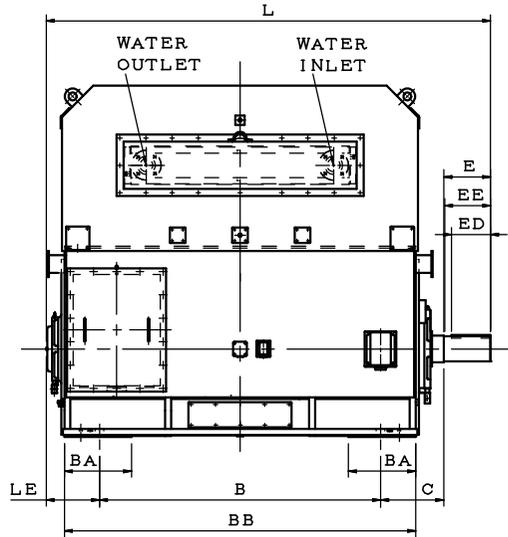
TYPICAL PERFORMANCE

OUTPUT		FULL	FRAME	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE			ROTOR	Max. Load	APPROX. WEIGHT (1)	APPROX. WEIGHT (2)
HP	(kW)	LOAD	NO. (SZ) (EZ)	FULL	3/4	1/2	FULL	3/4	1/2	Rated	Starting	Starting	Rated	Starting	Max.	GD <sup>2</sup>	GD <sup>2</sup>	KGS	KGS
		RPM		LOAD	LOAD	LOAD	LOAD	LOAD	LOAD	LOAD	A	%	A	KG-M	%FLT	%FLT	KG-M <sup>2</sup>	KG-M <sup>2</sup>	
400	300	889	355D-110R	93.6	93.5	92.3	78.7	73.5	62.4	35	596	211	327	100	230	71	2957	2400	2950
450	335	889	355D-110R	93.6	93.5	92.3	79.4	74.5	63.7	40	585	231	368	100	220	75	3290	2450	3000
500	375	889	355D-110R	93.7	93.6	92.4	78.6	73.4	62.2	44	601	266	409	110	230	79	3618	2500	3050
600	450	889	400B-125R	93.8	93.7	92.5	80.1	75.9	66.2	52	507	264	491	80	210	95	3942	2800	3250
700	520	888	400B-125R	93.9	93.8	92.6	81.4	78.2	69.7	60	478	286	574	70	200	108	4169	2950	3400
800	600	889	400C-125R	94.3	94.2	93.0	81.2	77.2	67.9	68	538	367	655	80	200	129	5094	3300	3750
900	670	889	400D-125R	94.5	94.4	93.2	81.3	77.3	68.0	76	546	417	737	90	200	137	5652	3450	3900
1000	750	889	400D-125R	94.5	94.4	93.2	82.3	79.2	71.1	84	515	432	818	80	210	150	6200	3650	4100
1250	930	889	450B-140R	94.6	94.5	93.3	81.6	78.9	71.2	106	486	514	1023	80	190	187	7529	3950	4600
1500	1120	890	450C-140R	95.0	94.9	93.7	82.5	79.6	71.9	125	530	662	1226	90	210	241	8782	4500	5150
1750	1320	891	450D-140R	95.2	95.1	93.9	82.5	79.3	71.2	145	566	823	1429	90	200	281	9982	5050	5700
2000	1500	889	500B-160R	95.3	95.2	94.0	82.7	80.5	73.6	166	503	833	1637	90	190	309	11229	5600	6250
2250	1680	889	500C-160R	95.4	95.3	94.1	82.9	80.8	74.0	186	505	938	1842	90	190	338	12381	6000	6650
2500	1850	890	500C-160R	95.7	95.6	94.4	82.9	80.5	73.3	206	529	1088	2044	90	200	370	13460	6300	6950
3000	2240	893	560B-180R	96.2	96.1	94.9	83.8	81.0	73.6	243	617	1498	2444	70	210	732	14204	7500	8250
3500	2650	893	560C-180R	96.3	96.2	95.0	84.0	81.2	73.9	282	631	1782	2852	70	210	834	16039	8250	9000
4000	3000	893	560D-180R	96.3	96.2	95.0	84.0	80.9	73.1	323	679	2191	3259	80	230	972	19345	9300	10050
4500	3360	894	630D-200R	96.6	96.5	95.3	82.0	80.1	73.5	371	520	1928	3662	60	190	1431	19368	11950	12700
5000	3750	894	630D-200R	96.7	96.6	95.4	81.6	79.4	72.4	414	533	2204	4069	60	190	1515	20928	12350	13100
5500	4100	895	630E-200R	96.7	96.6	95.4	81.6	79.2	72.0	455	549	2497	4471	60	200	1653	22344	13300	14050
6000	4500	894	630E-200R	96.7	96.6	95.4	82.3	80.6	74.3	492	523	2573	4883	60	190	1791	23819	13950	14700
6500	4850	895	630E-200R	96.8	96.7	95.5	81.7	79.1	71.5	536	573	3073	5284	60	200	1928	25083	14600	15350
7000	5200	895	710D-220R	96.7	96.6	95.4	85.3	82.4	75.2	554	657	3638	5691	70	220	2472	26351	18400	19300
7500	5600	895	710E-220R	96.8	96.7	95.5	85.6	83.0	76.1	591	654	3863	6097	70	220	2660	27555	19350	20250
8000	6000	895	710E-220R	96.8	96.7	95.5	85.3	82.5	75.1	632	672	4249	6504	70	230	2782	28699	19900	20800
9000	6700	894	800B-240V	96.9	96.8	95.6	84.9	82.8	76.4	714	528	3769	7325	60	210	2656	30908	22400	22600
10000	7500	894	800C-240V	96.9	96.8	95.6	84.9	82.7	76.2	793	530	4204	8139	60	210	2823	32808	23600	23800
11000	8200	894	800D-260V	97.0	96.9	95.7	84.9	82.7	76.2	872	533	4646	8953	60	210	3049	34501	25200	25400
12000	8950	894	900B-260V	97.0	96.9	95.7	84.1	82.2	76.1	960	535	5136	9766	50	200	4181	35996	27800	28000
13000	9700	895	900B-260V	97.0	96.9	95.7	84.2	82.1	75.8	1039	555	5765	10568	60	210	4575	37182	28900	29100
14000	10450	895	900C-280V	97.0	96.9	95.7	83.8	81.2	74.1	1124	589	6620	11381	60	200	4946	38306	30700	30900
15000	11200	895	900D-280V	97.1	97.0	95.8	84.5	82.8	77.0	1193	541	6454	12194	60	200	5097	39259	31100	31300
16000	11950	895	900D-280V	97.1	97.0	95.8	84.3	82.0	75.2	1276	588	7500	13007	60	220	5619	40048	33500	33700

NOTES :

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.



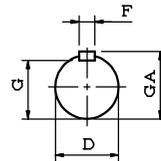
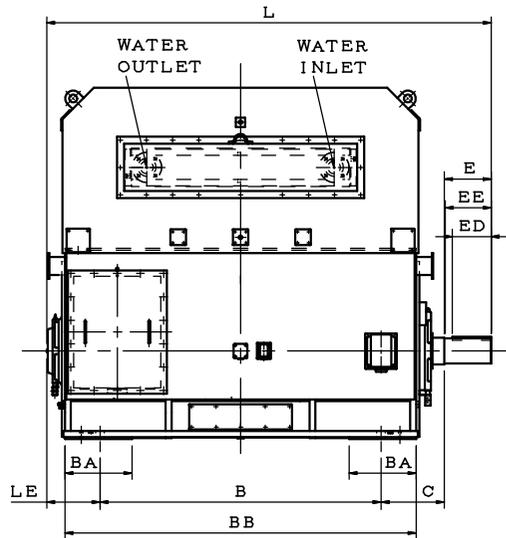
DIMENSIONS IN MM

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		
355C	6P	710	85	790	900	280	1200	254	35	M24	LATER.	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				265	110	210	200	100	160	28	116	6324	6320			
355E	4P	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 6P, 8P	800	95	900	1000	355	1360	280	42	M30		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	
450B	4P	900	100	990	1000	380	1420	315	42	M30		LATER.	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	6P, 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	

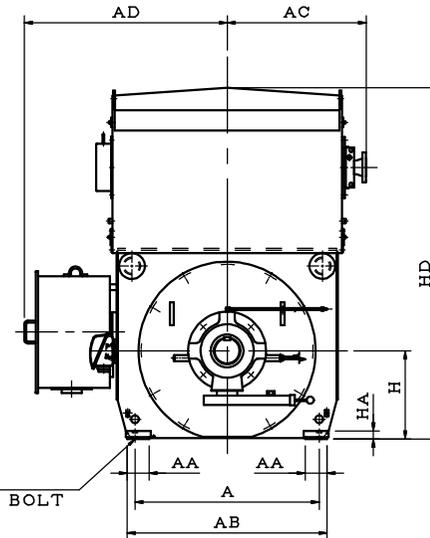
1. TOLERANCE OF SHAFT EXTENSION DIAMETER  $D = m6$ .
2. TOLERANCE OF SHAFT CENTER HEIGHT  $H = \frac{h9}{10}$ .
3. TOLERANCE OF KEY WIDTH  $F = h9$ .
4. USABLE SHAFT LENGTH: EE
5. ANTI-FRICTION BEARINGS.

OUTLINE DIMENSIONS SHEET  
3-PHASE INDUCTION MOTOR  
FRAME NO. (EZ)355C-710E

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



K HOLE FOR  
M HOLD DOWN BOLT



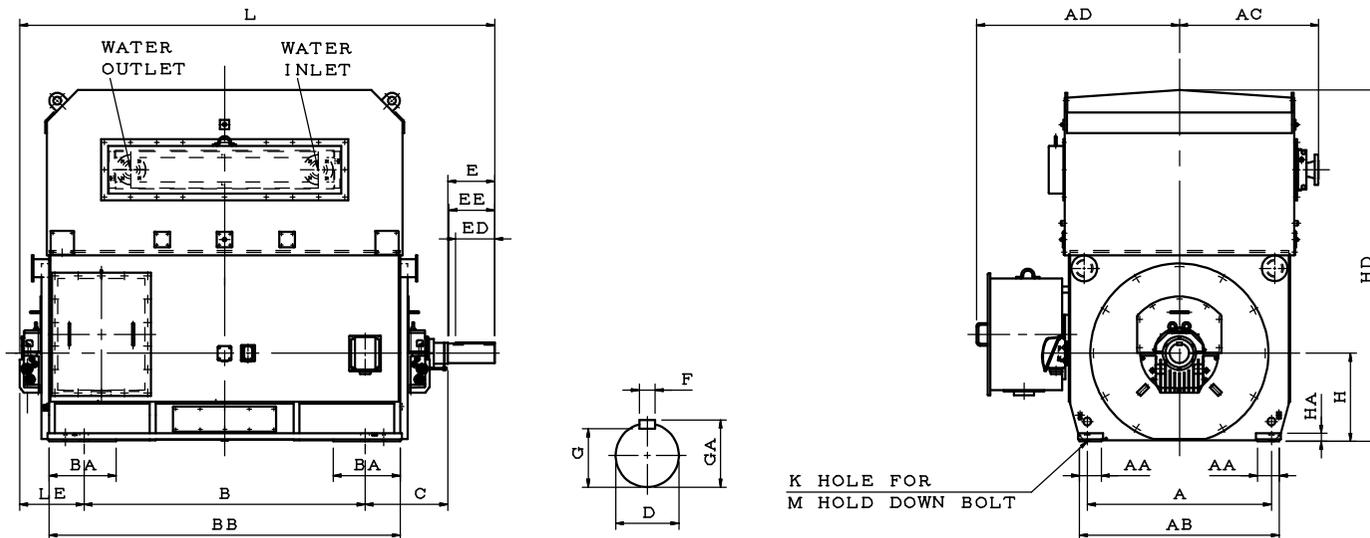
DIMENSIONS IN MM

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	
500B	6P, 8P	1000	140	1150	1120	405	1570	335	48	M36	LATER	1226	500	40	2113	2113	358	160	300	290	147	250	40	169	6334	6330	500B
500C	6P, 8P	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	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, 8P	1180	140	1280	1250	430	1700	355	55	M42		1296	560	53	2233	2263	358	180	300	290	165	250	45	190	NU238	6338	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	NU238	6338	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	NU238	6338	560D
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
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
710C	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  $H = \pm 0.03$ .
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. (EZ)355C-710E

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



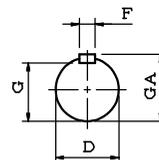
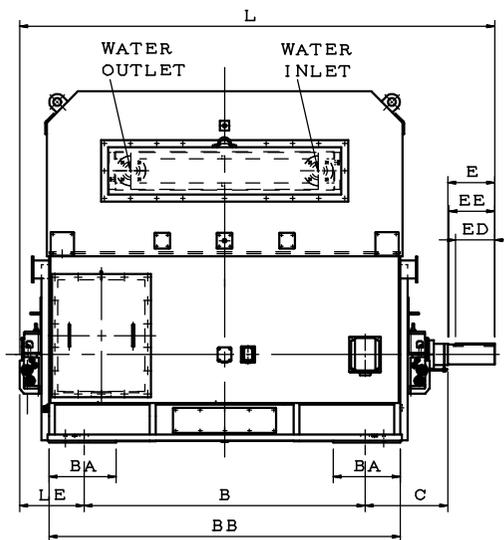
DIMENSIONS IN MM

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	
355C	6P	710	85	790	900	280	1200	355	35	M24	LATER	1035	355	40	1783	1734	309	95	170	164	86	140	25	100	9S/100	9S/ 80	355C
355D	2P	710	85	790	1000	280	1300	355	35	M24		1036	355	40	1783	1847	322	85	170	164	76	140	22	90	9S/ 80	9S/ 80	355D
	4P, 6P, 8P											1035				1834	309	95	170	164	86	140	25	100	9S/100	9S/ 80	
355E	2P	710	85	790	1120	280	1420	355	35	M24		1036	355	40	1783	1967	322	85	170	164	76	140	22	90	9S/ 80	9S/ 80	355E
	4P											1035				1954	309	95	170	164	86	140	25	100	9S/100	9S/ 80	
400B	6P, 8P	800	95	900	900	355	1260	400	42	M30		1086	400	40	1883	1828	318	110	210	204	100	160	28	116	11/110	9 / 80	400B
400C	4P, 6P, 8P	800	95	900	1000	355	1360	400	42	M30		1086	400	40	1883	1928	318	110	210	204	100	160	28	116	11/110	9 / 80	400C
400D	2P	800	95	900	1120	355	1480	400	42	M30		1089	400	40	1883	2042	352	95	170	164	86	140	25	100	9S/ 90	9S/ 80	400D
	4P, 6P, 8P											1086				2048	318	110	210	204	100	160	28	116	11/110	9 / 80	
400E	2P	800	95	900	1250	355	1610	400	42	M30		1089	400	40	1883	2172	352	95	170	164	86	140	25	100	9S/ 90	9S/ 80	400E
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	6P, 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	

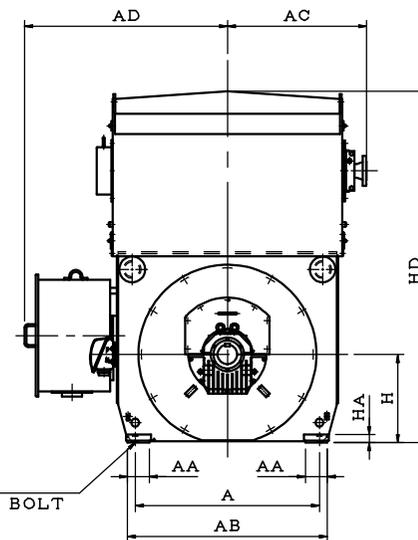
1. TOLERANCE OF SHAFT EXTENSION DIAMETER  $D = m6$ .
2. TOLERANCE OF SHAFT CENTER HEIGHT  $H = \pm 0.05$ .
3. TOLERANCE OF KEY WIDTH  $F = h9$ .
4. USABLE SHAFT LENGTH: EE
5. SLEEVE BEARINGS SELF LUBRICATION (NATURAL COOLING).
6. PROVISION FOR NONCONTACTIVE VIBRATION PROBE, DISTANCE OF "C" HAVE TO BE CHANGED FH355:450, FH400:500, FH450:530, FH500:600, FH560:630, FH630:670.

OUTLINE DIMENSIONS SHEET  
3-PHASE INDUCTION MOTOR  
FRAME NO. (EZ)355C-630E

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



K HOLE FOR  
M HOLD DOWN BOLT



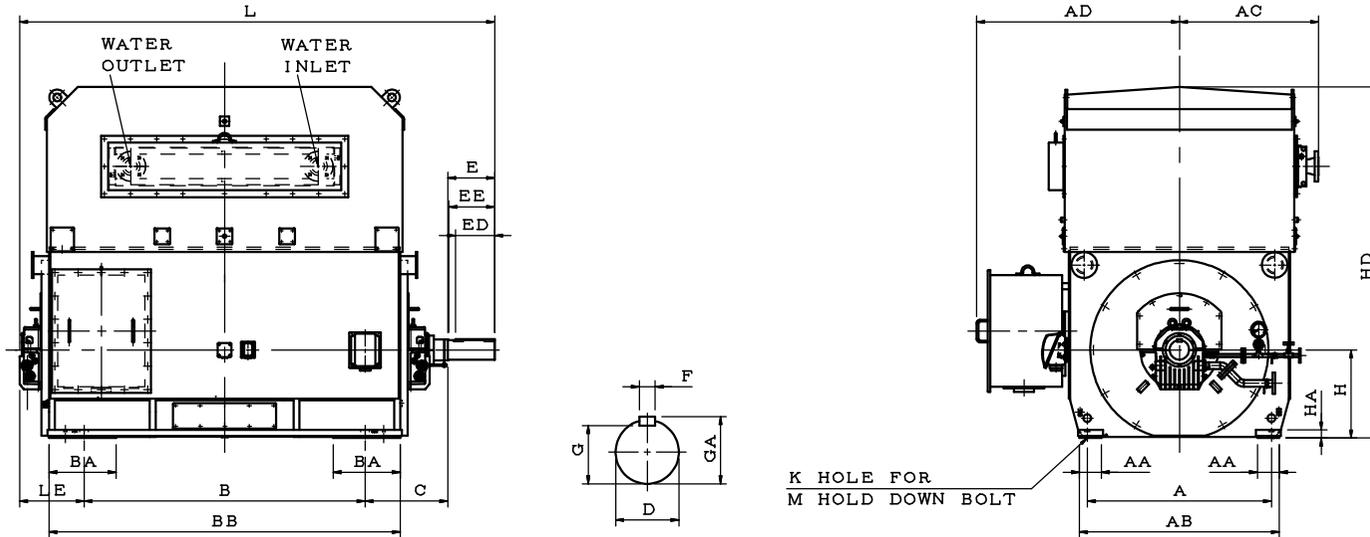
DIMENSIONS IN MM

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
500B	6P, 8P	1000	140	1150	1120	405	1570	500	48	M36	LATER	1226	500	40	2113	2311	391	160	300	294	147	250	40	169	14/160	11/125	500B
500C	6P, 8P	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	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	8P	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	8P	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	560C
560D	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
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  $H = \frac{H}{10}$
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. (EZ)355C-630E

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



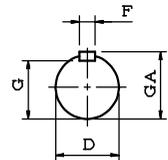
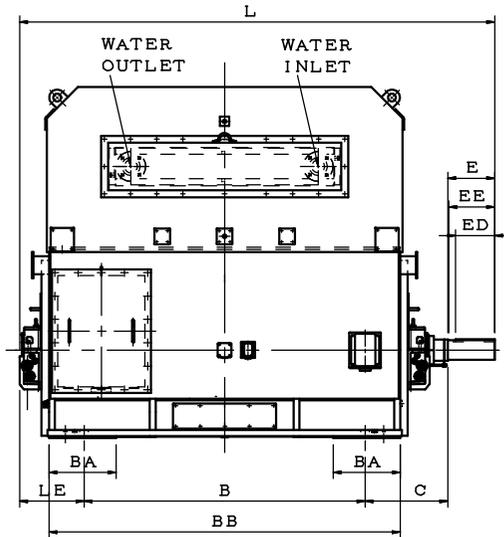
DIMENSIONS IN MM

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	4P	900	100	990	1000	380	1420	450	42	M30	LATER	1156	450	40	2003	2070	370	140	250	244	128	200	36	148	14/140	11/125	450B
450C	4P	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	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	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	450E
500C	4P	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	4P	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
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	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	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	560D
	4P										1296	2846				416	180	300	287	165	250	45	190	18/180	14/140		

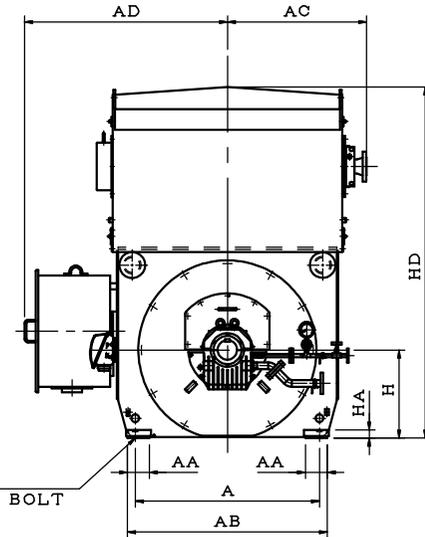
1. TOLERANCE OF SHAFT EXTENSION DIAMETER  $D = m6$ .
2. TOLERANCE OF SHAFT CENTER HEIGHT  $H = H7$  FOR F#630 & BELOW,  $H = H8$  FOR F#710 & UP.
3. TOLERANCE OF KEY WIDTH  $F = h9$ .
4. USABLE SHAFT LENGTH: EE
5. SLEEVE BEARINGS (EXTERNAL OIL CIRCULATION).
6. PROVISION FOR NONCONTACTIVE VIBRATION PROBE, DISTANCE OF "C" HAVE TO BE CHANGED F#450:530, F#500:600, F#560:630, F#630:670, F#710:710, F#800:750, F#900:800.

OUTLINE DIMENSIONS SHEET  
3-PHASE INDUCTION MOTOR  
FRAME NO. (EZ)450B-900D

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



K HOLE FOR  
M HOLD DOWN BOLT



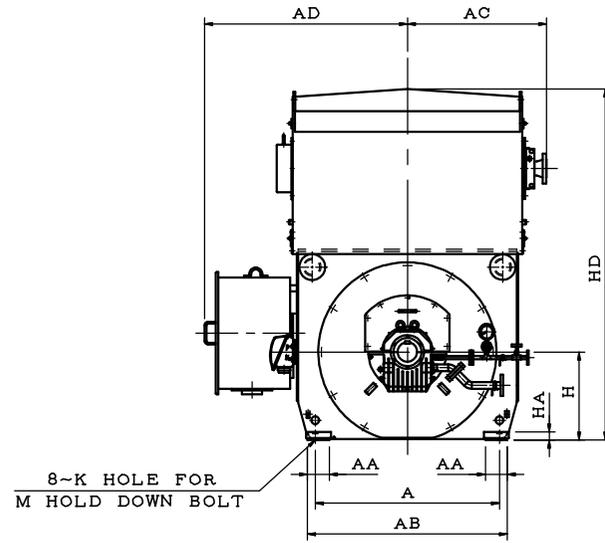
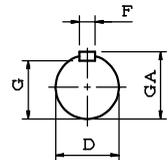
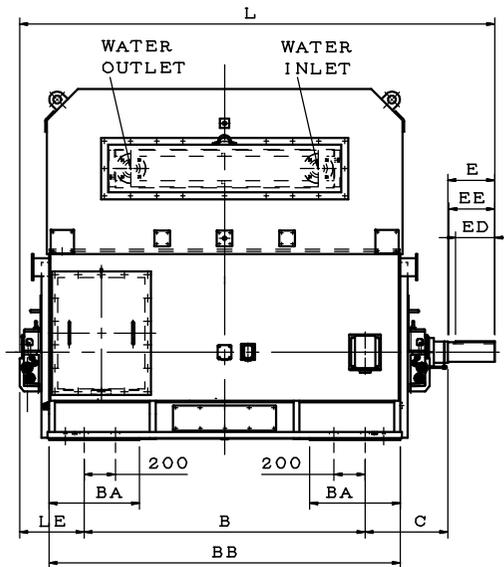
DIMENSIONS IN MM

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	
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	630C
630D	2P	1250	160	1400	1800	480	2300	560	55	M42		1352	630	58	2408	3093	483	140	250	244	128	200	36	148	14/140	14/125	630D
	4P, 6P											1349				3188	478	200	350	337	185	280	45	210	18/200	18/180	
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	630E
	4P, 6P											1349				3388	478	200	350	337	185	280	45	210	18/200	18/180	
710C	4P, 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	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	710D
	6P, 8P											3658				468	220	350	337	203	280	50	231	18/225	18/200		
710E	4P 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	710E
800B	8P	1700	220	1900	1800	600	2360	630	55	M42		1795	800	65	2833	3398	558	240	410	397	220	360	56	252	22/250	22/225	800B
800C	6P & 8P	1700	220	1900	2000	600	2560	630	55	M42		1795	800	65	2833	3598	558	240	410	397	220	360	56	252	22/250	22/225	800C
800D	4P	1700	220	1900	2240	600	2700	630	55	M42		1795	800	65	2833	3788	508	240	410	397	220	360	56	252	22/250	22/225	800D
	6P & 8P										260							410	397	240	360	56	272	22/250	22/225		

1. TOLERANCE OF SHAFT EXTENSION DIAMETER  $D = m6$ .
2. TOLERANCE OF SHAFT CENTER HEIGHT  $H = H7/g6$  FOR F#630 & BELOW,  $H = H7/g5$  FOR F#710 & UP.
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, F#800:750, F#900:800.

OUTLINE DIMENSIONS SHEET  
3-PHASE INDUCTION MOTOR  
FRAME NO. (EZ)450B-900D

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



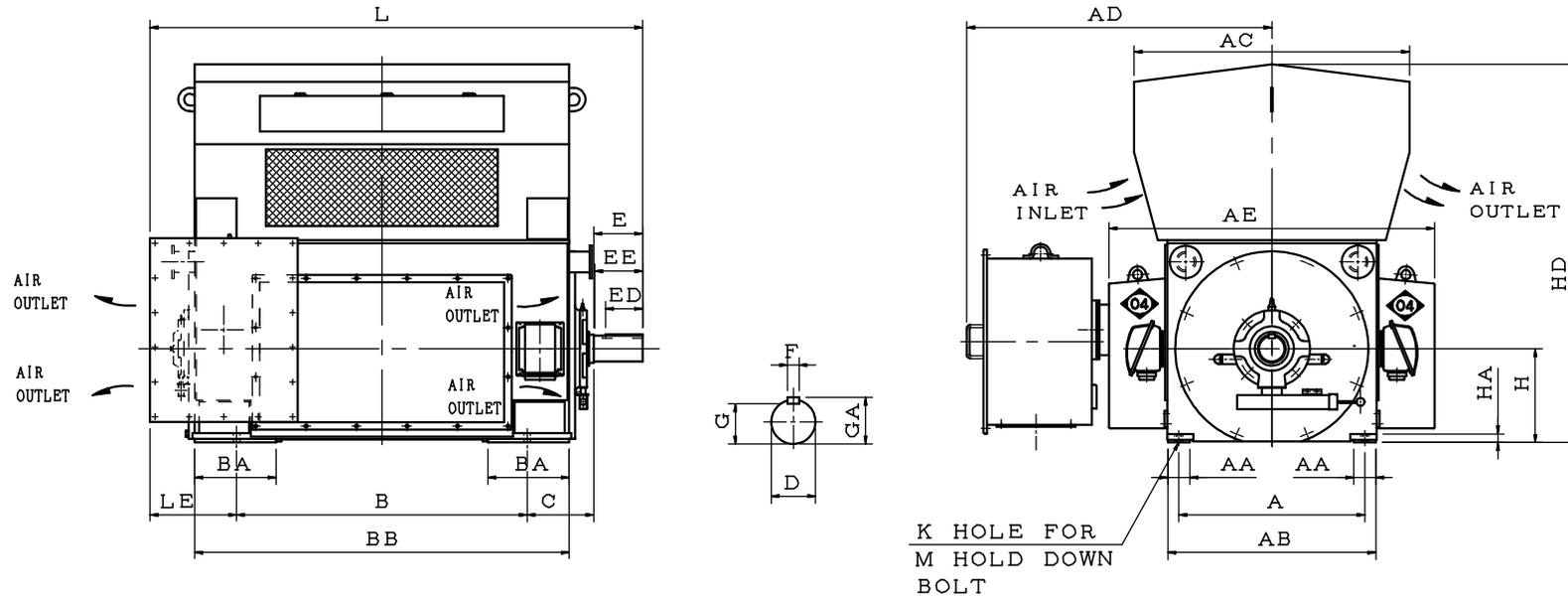
DIMENSIONS IN MM

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
900B	4P	1800	220	1995	2000	600	2600	670	55	M42	LATER	1894	900	65	3183	3663	583	240	410	397	220	360	56	252	22/250	22/225	900B
	6P&8P																	260	410	397	240	360	56	272	22/250	22/225	
900C	4P	1800	220	1995	2240	600	2740	670	55	M42	LATER	1894	900	65	3183	3853	533	240	410	397	220	360	56	252	22/250	22/225	900C
	6P&8P																	280	470	457	260	400	63	292	22/280	22/250	
900D	6P&8P	1800	220	1995	2500	600	3000	670	55	M42	LATER	1894	900	65	3183	4173	533	280	470	457	260	400	63	292	22/280	22/250	900D

- TOLERANCE OF SHAFT EXTENSION DIAMETER  $D = m6$ .
- TOLERANCE OF SHAFT CENTER HEIGHT  $H = H7/g6$  FOR F#630 & BELOW,  $H = H8/g7$  FOR F#710 & UP.
- TOLERANCE OF KEY WIDTH  $F = h9$ .
- USABLE SHAFT LENGTH: EE
- SLEEVE BEARINGS (EXTERNAL OIL CIRCULATION).
- 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, F#800:750, F#900:800.

OUTLINE DIMENSIONS SHEET  
3-PHASE INDUCTION MOTOR  
FRAME NO. (EZ)450B-900D

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



K HOLE FOR  
M HOLD DOWN  
BOLT

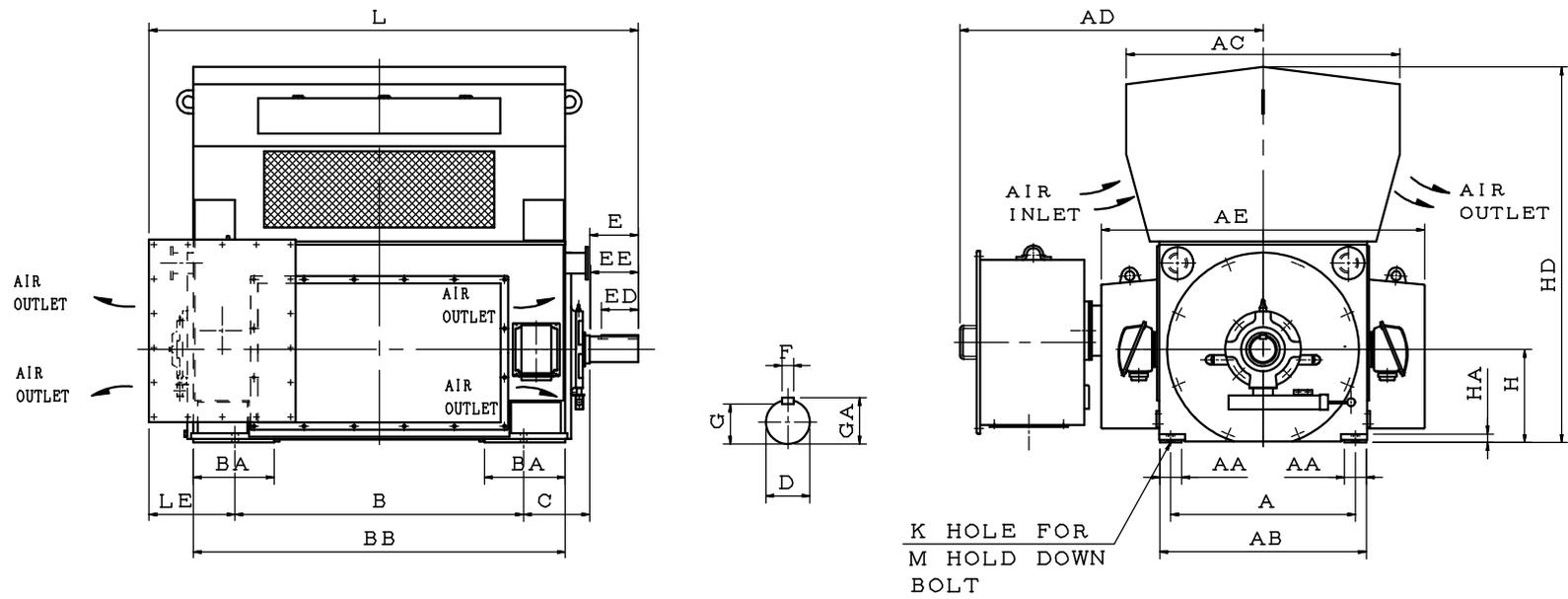
DIMENSIONS IN MM

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	
355C	6P	710	85	790	900	280	1200	254	35	M24	1081	1100	990	355	37	1360	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	1360	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	1360	1816	352	110	210	200	100	160	28	116	6324	6320	355D
355E	4P	710	85	790	1120	280	1420	254	35	M24	1081	1100	990	355	37	1360	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	1610	1762	372	125	210	202	114	160	32	132	6326	6322	400B
400C	4P, 6P&8P	800	95	900	1000	355	1360	280	42	M30	1185	1150	1110	400	37	1610	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	1610	1982	372	125	210	202	114	160	32	132	6326	6322	400D

1. TOLERANCE OF SHAFT EXTENSION DIAMETER  $D = \pm 0.06$ .
2. TOLERANCE OF SHAFT CENTER HEIGHT  $H = \pm 0.1$ .
3. TOLERANCE OF KEY WIDTH  $F = \pm 0.09$ .
4. USABLE SHAFT LENGTH: EE
5. ANTI-FRICTION BEARINGS.

OUTLINE DIMENSIONS SHEET  
3-PHASE INDUCTION MOTOR  
FRAME NO. (EZ)355C-710E

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



K HOLE FOR  
M HOLD DOWN  
BOLT

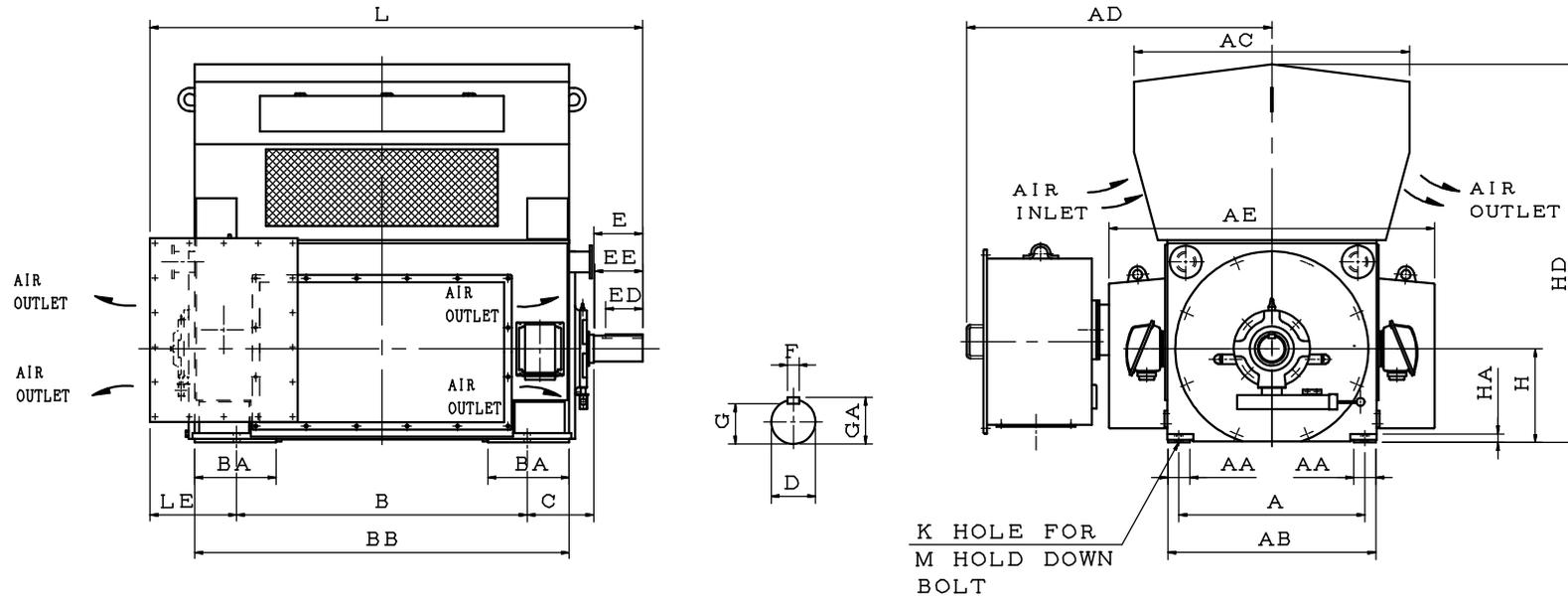
DIMENSIONS IN MM

FRAME NO.	NO. OF POLES	MOUNTING									AC	AD	AE	H	HA	HD	L	LE	SHAFT EXTENSION				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	900	100	990	1000	380	1420	315	42	M30	1290	1220	1240	450	37	1712	1902	377	125	210	202	114	160	32	132	6326	6322	450B
	6P&8P																		140	250	240	128	200	36	148	6330	6326	
450C	6P&8P	900	100	990	1120	380	1540	315	42	M30	1290	1220	1240	450	37	1712	2062	377	140	250	240	128	200	36	148	6630	6326	450C
450D	6P&8P	900	100	990	1250	380	1670	315	42	M30	1290	1220	1240	450	37	1712	2192	377	140	250	240	128	200	36	148	6330	6326	450D
500B	6P&8P	1000	140	1150	1120	405	1570	335	48	M36	1475	1300	1400	500	37	1940	2137	382	160	300	290	147	250	40	169	6334	6330	500B
500C	6P&8P	1000	140	1150	1250	405	1700	335	48	M36	1475	1300	1400	500	37	1940	2267	382	160	300	290	147	250	40	169	6334	6330	500C
500D	6P	1000	140	1150	1400	405	1850	335	48	M36	1475	1300	1400	500	37	1940	2417	382	160	300	290	147	250	40	169	6334	6330	500D
560B	6P&8P	1180	140	1280	1250	430	1700	355	55	M42	1675	1370	1540	560	51	2140	2272	367	180	300	290	165	250	45	190	NU238	6338	560B
560C	6P&8P	1180	140	1280	1400	430	1850	355	55	M42	1675	1370	1540	560	51	2140	2422	367	180	300	290	165	250	45	190	NU238	6338	560C
560D	6P&8P	1180	140	1280	1600	430	2050	355	55	M42	1675	1370	1540	560	51	2140	2622	367	180	300	290	165	250	45	190	NU238	6338	560D

1. TOLERANCE OF SHAFT EXTENSION DIAMETER  $D = m6$ .
2. TOLERANCE OF SHAFT CENTER HEIGHT  $H = \frac{h9}{10}$
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. (EZ)355C-710E

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



K HOLE FOR  
M HOLD DOWN  
BOLT

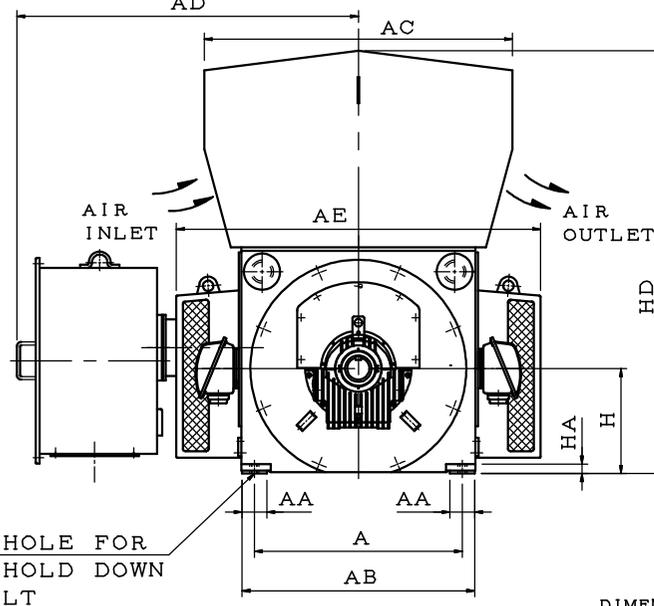
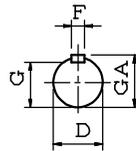
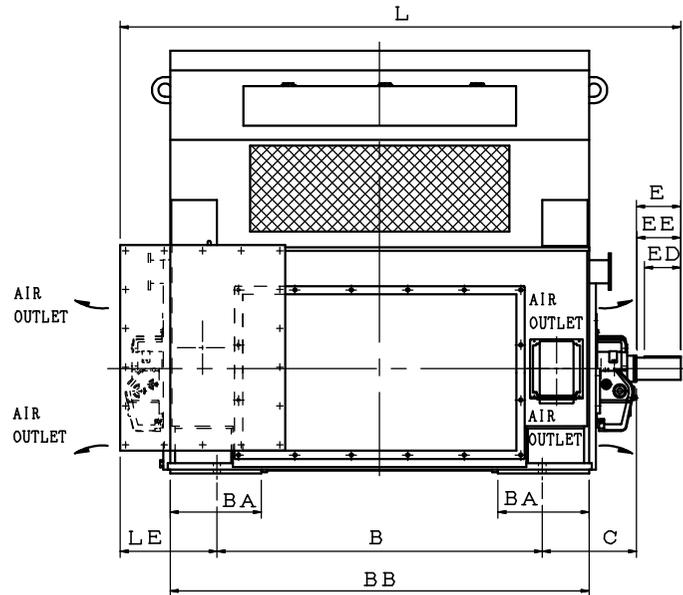
DIMENSIONS IN MM

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	
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	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  $H = \pm 0.05$ .
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. (EZ)355C-710E

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



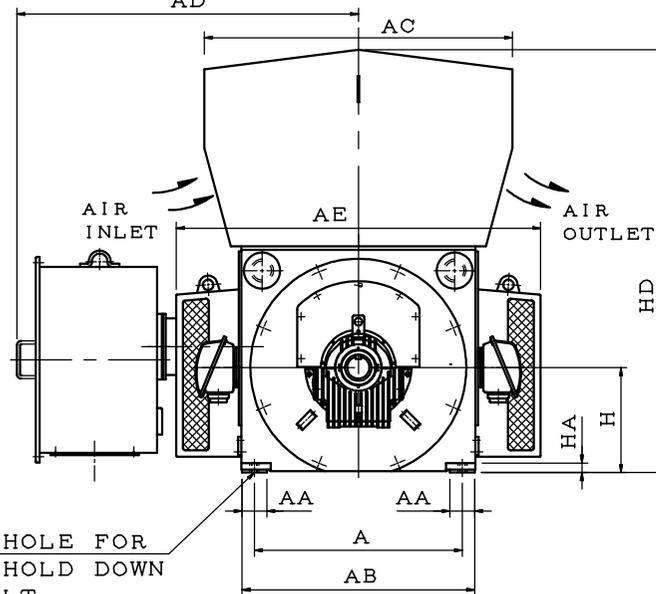
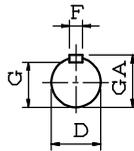
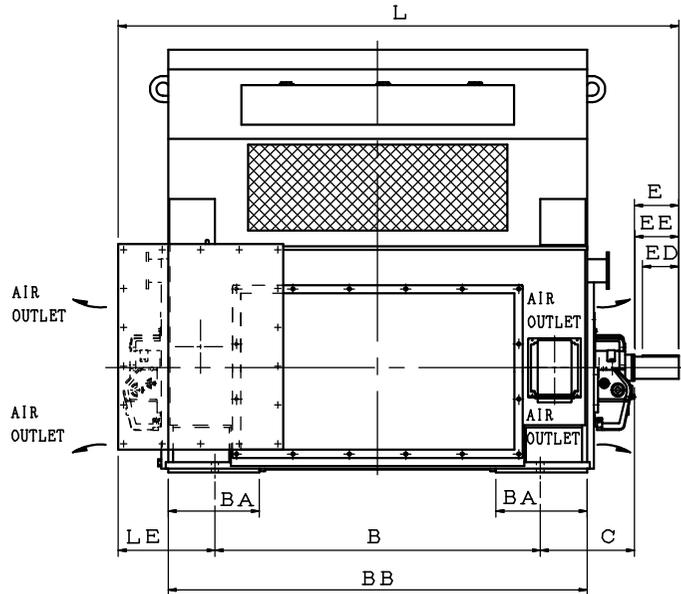
DIMENSIONS IN MM

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	1376	1400	450	37	1712	2077	377	140	250	244	128	200	36	148	14/140	11/125	450B
450C	6P&8P	900	100	990	1120	380	1540	450	42	M30	1290	1376	1400	450	37	1712	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	1376	1400	450	37	1712	2327	377	140	250	244	128	200	36	148	14/140	11/125	450D
500B	6P&8P	1000	140	1150	1120	405	1570	500	48	M36	1475	1456	1540	500	37	1940	2323	403	160	300	294	147	250	40	169	14/160	11/125	500B
500C	6P&8P	1000	140	1150	1250	405	1700	500	48	M36	1475	1456	1540	500	37	1940	2453	403	160	300	294	147	250	40	169	14/160	11/125	500C
500D	6P	1000	140	1150	1400	405	1850	500	48	M36	1475	1456	1540	500	37	1940	2603	403	160	300	294	147	250	40	169	14/160	11/125	500D
560B	6P&8P	1180	140	1280	1250	430	1700	530	55	M42	1675	1529	1690	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	1529	1690	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	1529	1690	560	51	2140	2858	428	180	300	287	165	250	45	190	18/180	14/140	560D
630D	8P	1250	160	1400	1800	480	2300	560	55	M42	1750	1585	1790	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	1585	1790	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  $H = H9$ .
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. (EZ)355D-630E

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



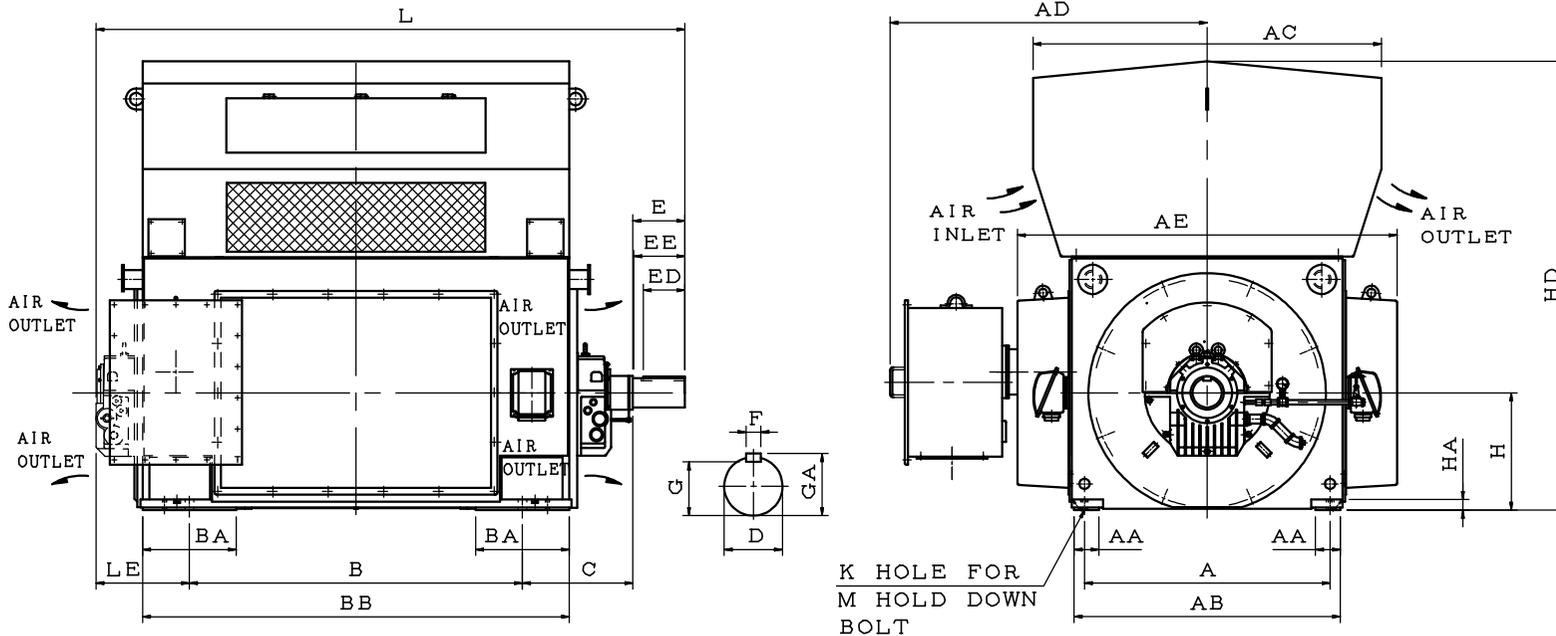
DIMENSIONS IN MM

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	
355C	6P	710	85	790	900	280	1200	355	35	M24	1081	1264	1190	355	37	1360	1777	352	95	170	164	86	140	25	100	9S/100	9S/80	355C
355D	2P	710	85	790	1000	280	1300	355	35	M24	1081	1264	1330	355	37	1360	1877	352	85	170	164	76	140	22	90	9S/80	9S/80	355D
355D	4P	710	85	790	1000	280	1300	355	35	M24	1081	1264	1330	355	37	1360	1877	352	95	170	164	86	140	25	100	9S/100	9S/80	355D
	6P&8P												1190															
355E	2P	710	85	790	1120	280	1420	355	35	M24	1081	1264	1330	355	37	1360	1997	352	85	170	164	76	140	22	90	9S/80	9S/80	355E
	4P																		95									
400B	6P&8P	800	95	900	900	355	1260	400	42	M30	1185	1331	1310	400	37	1610	1882	372	110	210	204	100	160	28	116	11/110	9/80	400B
400C	4P	800	95	900	1000	355	1360	400	42	M30	1185	1331	1450	400	37	1610	1982	372	110	210	204	100	160	28	116	11/110	9/80	400C
	6P&8P												1310															
400D	2P	800	95	900	1120	355	1480	400	42	M30	1185	1331	1450	400	37	1610	2062	372	95	170	164	86	140	25	100	9S/90	9S/80	400D
400D	4P	800	95	900	1120	355	1480	400	42	M30	1185	1331	1450	400	37	1610	2102	372	110	210	204	100	160	28	116	11/110	9/80	400D
	6P&8P												1310															
400E	2P	800	95	900	1250	355	1610	400	42	M30	1185	1331	1450	400	37	1610	2192	372	95	170	164	86	140	25	100	9S/90	9S/80	400E

1. TOLERANCE OF SHAFT EXTENSION DIAMETER  $D = m6$ .
2. TOLERANCE OF SHAFT CENTER HEIGHT  $H = \pm 0.05$ .
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. (EZ)355D-630E

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



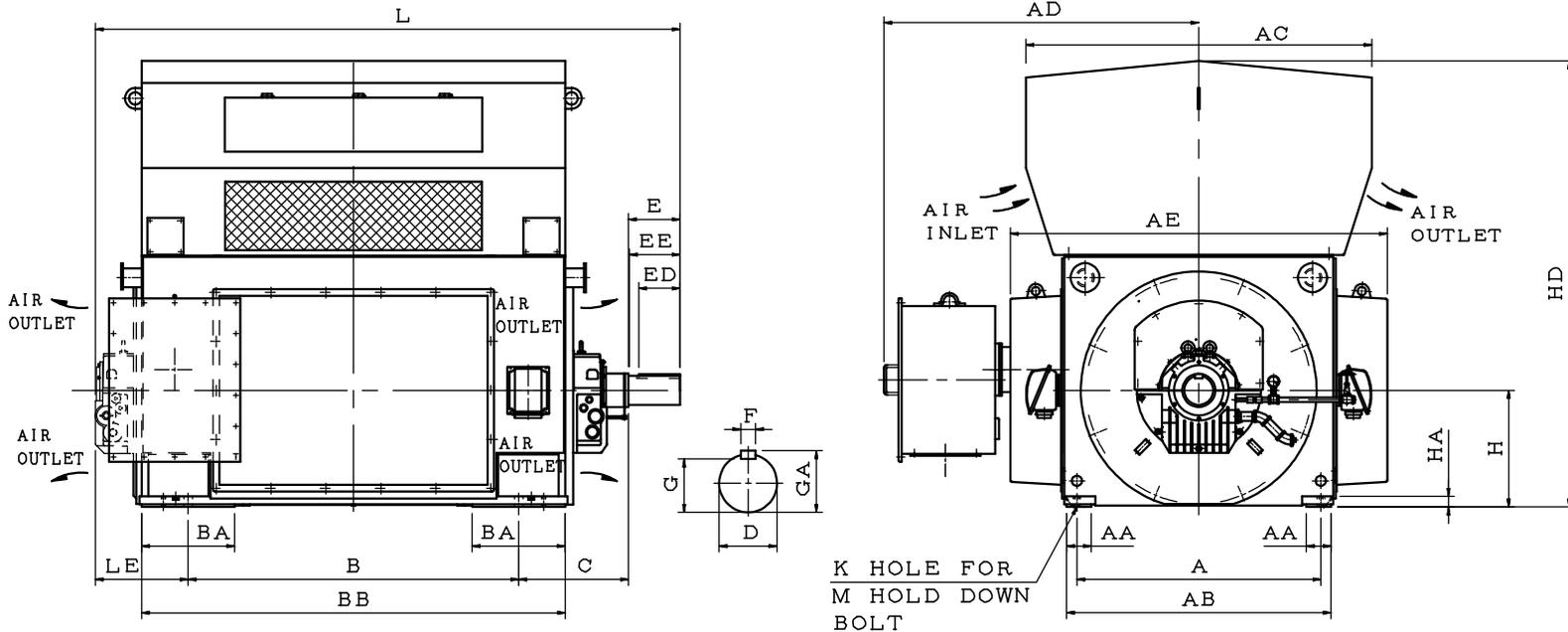
DIMENSIONS IN MM

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	4P	900	100	990	1000	380	1420	450	42	M30	1290	1220	1240	450	37	1712	2077	377	140	250	244	128	200	36	148	14/140	11/125	450B
450C	4P	900	100	990	1120	380	1540	450	42	M30	1290	1220	1240	450	37	1712	2197	377	140	250	244	128	200	36	148	14/140	11/125	450C
450D	2P	900	100	990	1250	380	1670	450	42	M30	1290	1220	1240	450	37	1712	2287	377	110	210	204	100	160	28	116	11/110	9/80	450D
	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	37	1712	2437	377	110	210	204	100	160	28	116	11/110	9/80	450E
500C	4P	1000	140	1150	1250	405	1700	500	48	M36	1475	1300	1400	500	37	1940	2453	403	160	300	294	147	250	40	169	14/160	11/125	500C
500D	4P	1000	140	1150	1400	405	1850	500	48	M36	1475	1300	1400	500	37	1940	2603	403	160	300	294	147	250	40	169	14/160	11/125	500D
500E	2P	1000	140	1150	1600	405	2050	500	48	M36	1475	1300	1400	500	37	1940	2713	403	125	210	204	114	160	32	132	11/125	11/110	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	560C
560D	2P	1180	140	1280	1600	430	2050	530	55	M42	1675	1370	1540	560	51	2140	2743	428	125	210	204	114	160	32	132	14/125	11/110	560D
	2858																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  $H = \pm 0.05$  FOR F#630 & BELOW,  $H = \pm 0.07$  FOR F#710 & UP.
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 F#800:750, F#900:800.

OUTLINE DIMENSIONS SHEET  
3-PHASE INDUCTION MOTOR  
FRAME NO. (EZ)450B-900D

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



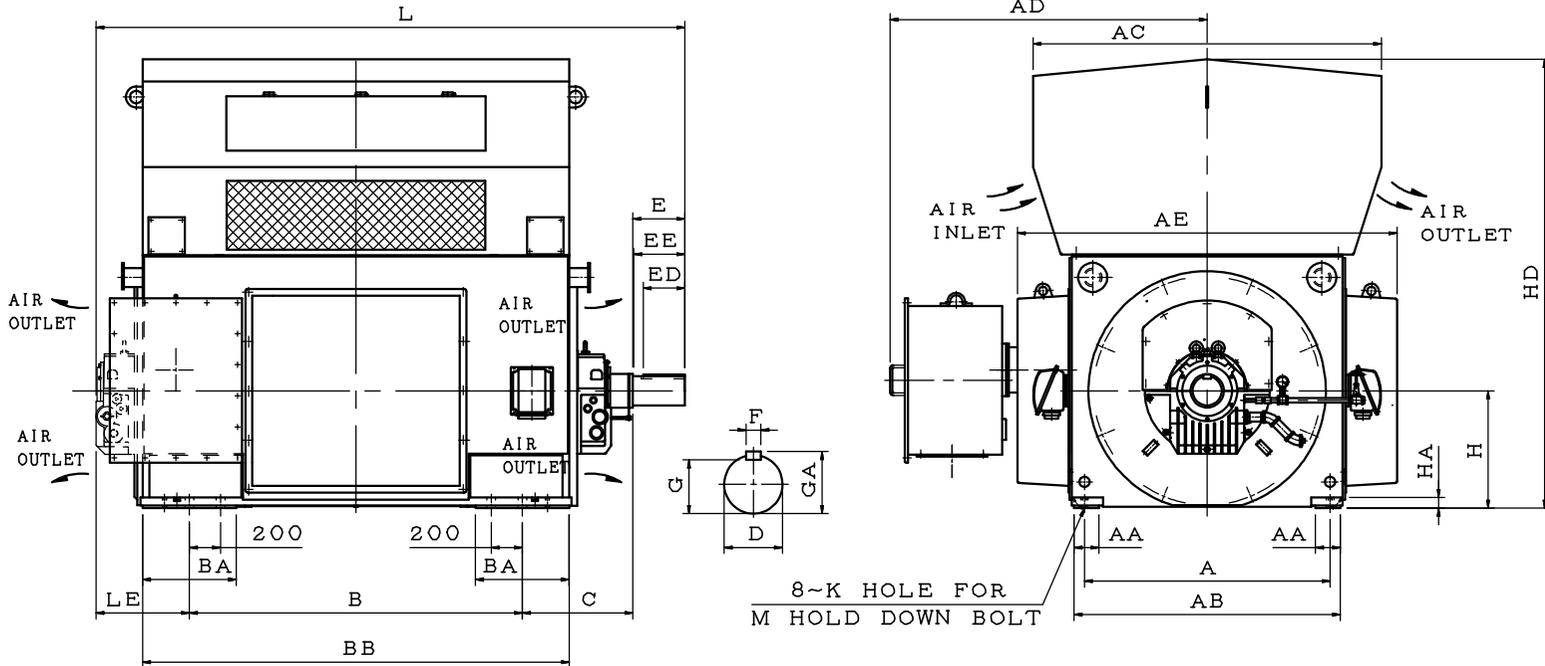
DIMENSIONS IN MM

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	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	630C
630D	2P	1250	160	1400	1800	480	2300	560	55	M42	1750	1420	1640	630	58	2568	3093	483	140	250	244	128	200	36	148	14/140	14/125	630D
630D	4P & 6P	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	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	630E
630E	4P & 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	630E
710C	4P & 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	710C
710D	4P, 6P & 8P	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	710D
710E	4P, 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	710E
800B	8P	1700	220	1900	1800	600	2360	630	55	M42	2250	1680	2160	800	65	3133	3398	558	240	410	397	220	360	56	252	22/250	22/225	800B
800C	6P & 8P	1700	220	1900	2000	600	2560	630	55	M42	2250	1680	2160	800	65	3133	3598	558	240	410	397	220	360	56	252	22/250	22/225	800C
800D	4P	1700	220	1900	2240	600	2700	630	55	M42	2250	1680	2160	800	65	3133	3788	508	240	410	397	220	360	56	252	22/250	22/225	800D
	260																		410	397	240	360	56	272	22/250	22/225		

- TOLERANCE OF SHAFT EXTENSION DIAMETER  $D = m6$ .
- TOLERANCE OF SHAFT CENTER HEIGHT  $H = \pm 0.02$  FOR F#630 & BELOW,  $H = \pm 0.03$  FOR F#710 & UP.
- TOLERANCE OF KEY WIDTH  $F = h9$ .
- USABLE SHAFT LENGTH: EE
- SLEEVE BEARINGS (EXTERNAL OIL CIRCULATION).
- 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 F#800:750, F#900:800.

OUTLINE DIMENSIONS SHEET  
3-PHASE INDUCTION MOTOR  
FRAME NO. (EZ)450B-900D

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



8~K HOLE FOR  
M HOLD DOWN BOLT

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	
900B	4P	1800	220	1995	2000	600	2600	670	55	M42	2350	1770	2340	900	65	3335	3663	583	240	410	397	220	360	56	252	22/250	22/225	900B
	6P&8P	1800	220	1995	2000	600	2600	670	55	M42	2350	1770	2340	900	65	3335	3853	533	260	410	397	240	360	56	272	22/250	22/225	
900C	4P	1800	220	1995	2240	600	2740	670	55	M42	2350	1770	2340	900	65	3335	3853	533	240	410	397	220	360	56	252	22/250	22/225	900C
	6P&8P	1800	220	1995	2240	600	2740	670	55	M42	2350	1770	2340	900	65	3335	3913	533	280	470	457	260	400	63	292	22/280	22/250	
900D	6P&8P	1800	220	1995	2500	600	3000	670	55	M42	2350	1770	2340	900	65	3335	4173	533	280	470	457	260	400	63	292	22/280	22/250	900D

1. TOLERANCE OF SHAFT EXTENSION DIAMETER  $D = m6$ .
2. TOLERANCE OF SHAFT CENTER HEIGHT  $H = \pm 0.05$  FOR F#630 & BELOW,  $H = \pm 0.06$  FOR F#710 & UP.
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, F#800:750, F#900:800.

OUTLINE DIMENSIONS SHEET  
3-PHASE INDUCTION MOTOR  
FRAME NO. (EZ)450B-900D