

全密型氣對氣冷卻馬達 (TEAAC)

MODEL : AEZK

STANDARD 3-PHASE INDUCTION MOTORS
HIGH VOLTAGE (11000V/50Hz) SQUIRREL CAGE
FRAME NO. (EZ) 400D ~ 900D



DWG NO.

3A057H516E

REV. 07

SPECIFICATION TABLE		MODEL
		AEZK 11000V 50Hz
STANDARD 3-PHASE INDUCTION MOTORS HIGH VOLTAGE SQUIRREL CAGE		
ITEM	STANDARD SPECIFICATION	
RATING	KIND OF MOTOR	SQUIRREL-CAGE INDUCTION MOTOR (SCIM)
	DESIGN STANDARD	IEC
	VOLTAGE	11000V
	FREQUENCY	50Hz
	FRAME NO. (EZ)	400D ~ 900D
	OUTPUT RANGE	500 ~ 14000HP (375 ~ 10450kW) 50Hz
	R.P.M. (SYN.)	3000 ~ 750R.P.M. (2 ~ 8 POLE) 50Hz
	TIME DUTY	CONTINUOUS, S.F. 1.0 (S1, MCR)
	PROTECTION ENCLOSURE	TOTALLY ENCLOSED (IP 54)
	COOLING METHOD	EXTERNAL AND INTERNAL FANS, WITH AIR TO AIR HEAT EXCHANGER WHICH IS AN INDEPENDENT UNIT MOUNTED DIRECTLY ON THE MOTOR (IC 611)
MOUNTING	HORIZONTAL FOOT MOUNTING (IM 1001, F-1)	
APPLICATION	POWER CONDITIONS	VOLTAGE $\pm 10\%$, FREQUENCY $\pm 5\%$ AND 10% MAX. OF COMBINED VOLTAGE AND FREQUENCY WITH FREQUENCY NOT TO EXCEED 5%
	ENVIRONMENT CONDITIONS	PLACE : SHADOW, NON-HAZARDOUS AMBIENT TEMPERATURE : -18 ~ 40°C (OIL SUMP HEATER IS NOT TECO'S SCOPE) 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. 3A057H519E 60% SQUARE LOAD CURVE
	DRIVE METHOD	DIRECT CONNECTION WITH FLEXIBLE COUPLING. THE ROTO _a 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
PERFORMANCE	TEST PROCEDURE	IEC 60034, IEEE 112
	TYPICAL PERFORMANCE	AS DWG NO. 3A057H519E, 3A057M178E, VALUES IN TABLE ARE NOMINAL
	TEMPERATURE RISE	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 ± 3 dB). 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 μ m (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 μ m (PEAK-TO-PEAK) ON SHAFT RELATIVE.
	OVER SPEED	TWO MIN., 120% OF SYN. R.P.M. FOR RATED 1501R.P.M. & ABOVE, 125% OF SYN. R.P.M. FOR RATED 1500R.P.M. & BELOW

	PERFORMANCE DATA 3-PHASE SQUIRREL CAGE INDUCTION MOTORS (ANTI-FRICTION BEARING)	<small>MODEL</small> AEZK/XC/XJ 11000V 50Hz
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TEAAC, CLASS F INS, CLASS B TEMP, 40°C AMBIENT, S.F.1.0
2P 11000V 50Hz

TYPICAL PERFORMANCE

OUTPUT		FULL	FRAME	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE			ROTOR	Max. Load	APPROX. WEIGHT
HP	(kW)	LOAD	NO. (EZ)	FULL	3/4	1/2	FULL	3/4	1/2	Rated	Starting	Starting	Rated	Starting	Max.	GD ²	GD ²	
		RPM		LOAD	LOAD	LOAD	LOAD	LOAD	LOAD	A	%	A	KG-M	%FLT	%FLT	KG-M ²	KG-M ²	
900	670	2980	400E-85R	93.5	93.4	92.2	88.5	87.4	83.2	42	539	229	220	60	200	34.3	160	4590
1000	750	2980	400E-85R	93.8	93.7	92.5	88.2	87.0	82.3	48	555	264	244	60	210	35.9	174	4620
1250	930	2977	400E-85R	94.0	93.9	93.0	88.7	88.3	85.0	59	495	290	306	50	180	38	208	4750
1500	1120	2976	450D-95R	93.7	93.6	92.7	89.5	89.4	86.6	70	479	336	367	60	180	50.8	239	6010
1750	1320	2977	450D-95R	94.2	94.1	93.2	90.1	89.8	86.8	82	517	422	428	60	200	55.9	268	6280

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. This performance data is only for sinpower, not suitable for PWM power souce.
5. The voltage and frequency combinations not included in performance data are quoted case by case.

TEAAC, CLASS F INS, CLASS B TEMP, 40°C AMBIENT, S.F.1.0

4P 11000V 50Hz

TYPICAL PERFORMANCE

OUTPUT		FULL LOAD RPM	FRAME NO. (EZ)	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE			ROTOR GD ² KG-M ²	Max. Load GD ² KG-M ²	APPROX. WEIGHT 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			
500	375	1490	400D-95R	93.4	93.2	92.1	83.6	79.4	70.1	25	667	168	244	70	250	62	760	4240
600	450	1490	400D-95R	93.6	93.5	92.6	83.0	78.6	69.1	30	656	199	293	70	250	62	892	4340
700	520	1489	400D-95R	93.8	93.8	93.0	83.2	79.0	69.6	35	641	224	342	70	240	65	1022	4340
800	600	1489	400D-95R	94.1	94.2	93.4	82.9	78.5	69.0	40	653	264	391	70	250	69	1147	4440
900	670	1488	450C-110R	93.6	93.5	92.6	84.7	80.9	72.1	44	621	275	440	70	250	100	1270	5480
1000	750	1488	450C-110R	94.0	93.9	93.0	86.3	82.5	74.1	49	686	333	489	70	250	104	1389	5580
1250	930	1487	450D-125R	94.3	94.4	93.8	87.7	84.8	77.5	59	670	395	612	70	250	118	1677	6050
1500	1120	1487	450D-125R	94.6	94.8	94.3	88.1	85.4	78.7	71	660	466	734	70	250	129	1947	6450
1750	1320	1490	500C-140R	94.6	94.6	93.7	85.2	82.0	74.4	86	600	516	855	60	240	216	2192	7990
2000	1500	1490	500C-140R	95.1	95.0	94.2	86.2	83.4	76.3	96	623	598	977	60	240	220	2434	8240
2250	1680	1490	500D-140R	95.3	95.3	94.6	86.7	83.9	77.0	107	645	688	1099	60	250	243	2666	8830
2500	1850	1490	500D-140R	95.5	95.5	94.9	86.8	84.2	77.5	117	633	741	1221	60	240	254	2887	9080

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. This performance data is only for sinepower, not suitable for PWM power souce.
5. The voltage and frequency combinations not included in performance data are quoted case by case.

TEAAC, CLASS F INS, CLASS B TEMP, 40°C AMBIENT, S.F.1.0

6P 11000V 50Hz

TYPICAL PERFORMANCE

OUTPUT		FULL LOAD RPM	FRAME NO. (EZ)	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE			ROTOR GD ² KG-M ²	Max. Load GD ² KG-M ²	APPROX. WEIGHT 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	991	450D-110R	92.1	92.0	90.0	80.9	76.1	65.8	32	634	201	441	80	250	132.5	3018	5170
700	520	990	450D-110R	92.2	92.0	90.8	82.5	78.6	69.4	36	594	213	514	70	230	140.6	3188	5260
800	600	990	450D-125R	92.5	92.3	91.2	81.9	77.8	68.5	42	580	241	588	70	220	140.6	3587	5260
900	670	990	500C-125R	92.7	92.5	90.4	80.6	76.4	66.9	47	554	261	661	60	230	209.3	3978	6650
1000	750	990	500C-125R	92.9	92.8	90.9	81.3	77.5	68.5	52	541	282	735	60	220	222.3	4361	6750
1250	930	990	500D-140R	93.4	93.2	91.8	81.2	77.2	68.1	64	550	354	919	60	220	242.9	5289	6880
1500	1120	989	500D-140R	93.8	93.7	92.7	83.1	80.1	72.4	75	528	398	1104	60	200	281.4	6194	7460
1750	1320	991	560C-160R	94.1	94.0	92.6	84.4	81.6	74.1	87	558	487	1285	60	220	380.4	7015	8980
2000	1500	991	560C-160R	94.3	94.2	93.0	84.1	81.1	73.4	99	567	563	1468	60	220	400.5	7838	9240
2250	1680	991	560D-160R	94.6	94.5	93.4	84.3	81.4	73.7	111	583	644	1652	60	230	438.5	8632	9580
2500	1850	991	560D-160R	94.9	94.7	93.9	85.6	83.1	76.2	120	596	713	1836	70	220	508.7	9400	10700
3000	2240	993	630D-200R	95.0	94.9	93.2	86.7	84.8	79.1	143	673	960	2198	90	220	964.2	11762	13820
3500	2650	994	630E-200R	95.3	95.1	93.7	86.7	84.8	78.8	168	682	1148	2562	90	220	1065.8	13217	14700
4000	3000	994	630E-200R	95.4	95.3	94.1	86.5	84.5	78.5	191	681	1299	2928	90	220	1095.2	14618	15000
4500	3360	994	630E-200R	95.6	95.5	94.4	86.1	83.9	77.4	214	694	1487	3294	100	220	1126.9	17231	15300
5000	3750	995	710D-220R	95.6	95.4	93.9	86.0	84.4	78.8	240	645	1546	3656	70	200	1794.6	15751	20330
5500	4100	995	710E-220R	95.7	95.6	94.2	85.3	83.2	76.7	264	683	1801	4022	70	210	1854	16830	20800
6000	4500	995	710E-220R	95.8	95.7	94.5	85.6	84.0	78.5	288	626	1801	4388	70	190	1854	17850	20800

NOTES :

1. Test standard : IEC 60034-2-1 or IEEE112.
2. Tolerance : IEC 60034-1 or NEMA MG1.
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TEAAC, CLASS F INS, CLASS B TEMP, 40°C AMBIENT, S.F.1.0

8P 1100V 50Hz

TYPICAL PERFORMANCE

OUTPUT		FULL LOAD RPM	FRAME NO. (EZ)	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE			ROTOR GD ² KG-M ²	Max. Load GD ² KG-M ²	APPROX. WEIGHT 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			
500	375	741	450D-110R	92.2	92.0	90.5	73.9	67.8	56.2	29	550	159	491	90	230	140.3	5228	5250
600	450	743	500C-125R	92.0	91.9	90.7	80.7	76.2	66.3	32	616	196	588	100	220	267.3	6621	5900
700	520	743	500C-125R	92.7	92.5	91.4	79.9	75.2	65.0	37	619	228	685	100	220	267.3	7606	6410
800	600	743	500C-140R	92.6	92.4	91.6	79.9	75.3	65.2	43	601	256	783	100	210	277.6	8572	6510
900	670	743	500D-140R	93.0	92.8	92.0	81.7	78.1	69.1	46	583	270	881	100	200	314.8	9520	7060
1000	750	743	500D-140R	93.2	93.1	92.2	81.2	77.2	67.7	52	596	310	979	100	210	329.5	10452	7430
1250	930	743	560C-160R	93.9	93.8	92.9	81.5	78.2	69.6	64	558	356	1224	60	200	592.6	10811	8950
1500	1120	744	560D-160R	94.7	94.5	93.5	81.2	77.2	67.7	76	645	493	1467	70	240	752.2	12627	9630
1750	1320	743	560D-160R	94.7	94.5	93.7	82.4	79.7	71.8	89	555	493	1714	60	200	752.2	14467	10090
2000	1500	744	630E-200R	94.9	94.7	93.8	85.1	82.6	75.3	98	657	641	1956	90	230	1400.8	17582	14620
2250	1680	744	630E-200R	95.0	94.9	94.0	84.8	82.1	74.5	109	674	737	2200	90	230	1441.5	19420	14920
2500	1850	744	630E-200R	95.2	95.1	94.2	85.0	82.7	75.6	120	654	784	2445	90	220	1491	21208	15320
3000	2240	744	630E-200R	95.4	95.3	94.4	84.5	81.9	74.5	146	654	953	2934	90	220	1491	24648	15320
3500	2650	744	710D-220R	95.4	95.2	94.1	84.6	81.6	73.9	172	667	1150	3423	90	240	2048.3	27922	18070
4000	3000	743	710E-220R	95.5	95.3	94.5	85.2	82.9	76.2	194	627	1213	3917	90	220	2174.5	31154	19210

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. This performance data is only for sinewave, not suitable for PWM power source.
5. The voltage and frequency combinations not included in performance data are quoted case by case.

PERFORMANCE DATA														MODEL	
3-PHASE SQUIRREL CAGE INDUCTION MOTORS (SLEEVE BEARING)														AEZK/XC/XJ	
TEAAC, CLASS F INS, CLASS B TEMP, 40°C AMBIENT, S.F.1.0														11000V	
2P 11000V 50Hz														50Hz	

TEAAC, CLASS F INS, CLASS B TEMP, 40°C AMBIENT, S.F.1.0
2P 11000V 50Hz
TYPICAL PERFORMANCE

OUTPUT		FULL	FRAME	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE			ROTOR	Max. Load	APPROX. WEIGHT
HP	(kW)	LOAD	NO.	FULL	3/4	1/2	FULL	3/4	1/2	Rated	Starting	Starting	Rated	Starting	Max.	GD ²	GD ²	
		RPM	(EZ)	LOAD	LOAD	LOAD	LOAD	LOAD	LOAD	A	%	A	KG-M	%FLT	%FLT	KG-M ²	KG-M ²	KGS
900	670	2982	400E-85U	93.7	93.3	92.0	87.4	85.1	79.0	43	605	260	220	70	230	37	160	4750
1000	750	2982	400E-85U	93.9	93.6	92.5	88.0	85.8	80.2	48	603	287	244	70	230	39	174	4750
1250	930	2981	400E-85U	94.3	94.2	93.3	88.0	86.1	80.8	59	583	343	305	60	220	42	207	4950
1500	1120	2980	450D-95U	94.2	94.0	92.8	87.9	86.2	81.1	71	539	383	366	60	210	55	238	6100
1750	1320	2979	450D-95U	94.3	94.2	93.3	88.2	86.8	82.3	83	517	431	427	60	200	57	267	6150
2000	1500	2978	450E-95U	94.6	94.6	93.9	89.1	88.3	84.8	93	505	472	489	60	220	63	294	6730
2250	1680	2981	450E-95U	95.0	94.9	94.1	88.9	87.3	82.4	104	587	613	549	70	220	67	317	6980

NOTES :

1. Test standard : IEC 60034-2-1 or IEEE112.
2. Tolerance : IEC 60034-1 or NEMA MG1.
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Legally binding performance and specification data is given to the end user once each order is confirmed.
4. This performance data is only for sinewave, not suitable for PWM power source.
5. The voltage and frequency combinations not included in performance data are quoted case by case.

TEAAC, CLASS F INS, CLASS B TEMP, 40°C AMBIENT, S.F.1.0

4P 11000V 50Hz

TYPICAL PERFORMANCE

OUTPUT		FULL LOAD RPM	FRAME NO. (EZ)	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE			ROTOR GD ² KG-M ²	Max. Load GD ² KG-M ²	APPROX. WEIGHT 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			
500	375	1490	400D-95U	93.4	93.2	92.1	83.6	79.4	70.1	25	667	168	244	70	250	62	760	4240
600	450	1490	400D-95U	93.6	93.5	92.6	83.0	78.6	69.1	30	656	199	293	70	250	62	892	4340
700	520	1489	400D-95U	93.8	93.8	93.0	83.2	79.0	69.6	35	641	224	342	70	240	65	1022	4340
800	600	1489	400D-95U	94.1	94.2	93.4	82.9	78.5	69.0	40	653	264	391	70	250	69	1147	4440
900	670	1488	450C-110U	93.6	93.5	92.6	84.7	80.9	72.1	44	621	275	440	70	250	100	1270	5480
1000	750	1488	450C-110U	94.0	93.9	93.0	86.3	82.5	74.1	49	686	333	489	70	250	104	1389	5580
1250	930	1487	450D-110U	94.3	94.4	93.8	87.7	84.8	77.5	59	670	395	612	70	250	118	1677	6050
1500	1120	1487	450D-110U	94.6	94.8	94.3	88.1	85.4	78.7	71	660	466	734	70	250	129	1947	6450
1750	1320	1490	500C-140V	94.6	94.6	93.7	85.2	82.0	74.4	86	600	516	855	60	240	216	2192	7990
2000	1500	1490	500C-140V	95.1	95.0	94.2	86.2	83.4	76.3	96	623	598	977	60	240	220	2434	8240
2250	1680	1490	500D-140V	95.3	95.3	94.6	86.7	83.9	77.0	107	645	688	1099	60	250	243	2666	8830
2500	1850	1490	500D-140V	95.5	95.5	94.9	86.8	84.2	77.5	117	633	741	1221	60	240	254	2887	9080
3000	2240	1491	560C-140V	95.7	95.6	94.9	84.5	81.1	73.0	145	629	914	1464	60	240	376	3295	10540
3500	2650	1491	630C-160V	96.1	96.0	95.4	87.4	85.4	79.6	166	576	954	1708	50	220	554	3672	12260
4000	3000	1492	630C-160V	96.3	96.2	95.6	87.7	85.6	79.7	186	607	1132	1951	50	240	610	4010	12760
4500	3360	1492	630D-160V	96.4	96.4	95.9	88.1	86.2	80.7	208	608	1263	2195	50	230	662	4325	13650
5000	3750	1492	630D-160V	96.5	96.4	95.9	88.3	86.0	80.1	231	667	1541	2438	60	250	751	4612	14300
5500	4100	1492	630E-180V	96.5	96.5	96.1	88.6	86.6	81.1	252	655	1649	2682	60	250	791	4874	15090
6000	4500	1492	630E-180V	96.6	96.7	96.3	89.1	87.3	82.3	274	643	1764	2926	60	240	843	5110	15540
6500	4850	1492	630E-180V	96.7	96.7	96.3	89.2	87.5	82.4	295	669	1974	3170	60	250	921	5324	16240
7000	5200	1492	710D-200V	96.7	96.8	96.5	92.0	90.5	86.5	307	711	2181	3414	60	250	1312	5515	21490
7500	5600	1491	710D-200V	96.8	96.9	96.7	92.6	91.4	88.0	328	705	2312	3660	60	250	1440	5695	21790
8000	6000	1491	710E-200V	96.8	97.0	96.8	92.8	91.8	88.8	351	680	2384	3904	60	250	1512	5845	23720
9000	6700	1491	710E-200V	96.9	97.1	96.8	92.9	91.8	88.6	391	709	2770	4392	60	250	1632	6084	24120
10000	7500	1493	800C-220V	96.6	96.6	96.0	90.8	89.2	84.7	449	720	3231	4873	60	250	2082	6222	30310
11000	8200	1493	800D-220V	96.7	96.7	96.1	90.8	89.1	84.6	490	749	3671	5361	60	250	2256	6315	31430
12000	8950	1494	900C-240V	96.7	96.6	96.0	90.4	89.1	84.8	537	613	3294	5844	50	240	2761	6327	34200
13000	9700	1494	900C-240V	96.8	96.7	96.1	90.3	88.9	84.6	582	615	3582	6331	50	240	2853	6359	34600
14000	10450	1493	900C-240V	96.8	96.8	96.3	90.8	89.6	85.7	624	613	3825	6823	50	240	3036	6475	35400

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. This performance data is only for sinepower, not suitable for PWM power souce.
5. The voltage and frequency combinations not included in performance data are quoted case by case.

TEAAC, CLASS F INS, CLASS B TEMP, 40°C AMBIENT, S.F.1.0

6P 11000V 50Hz

TYPICAL PERFORMANCE

OUTPUT		FULL LOAD RPM	FRAME NO. (EZ)	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE			ROTOR GD ² KG-M ²	Max. Load GD ² KG-M ²	APPROX. WEIGHT 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	990	450C-110U	92.9	93.0	92.2	82.0	77.2	66.8	31	623	193	441	80	240	130	3025	5130
700	520	990	450C-110U	93.1	93.3	92.5	81.7	76.8	66.3	36	631	226	514	80	250	138	3469	5230
800	600	990	450D-110U	93.5	93.7	93.1	83.1	78.6	68.7	41	660	268	588	90	250	165	3904	5760
900	670	990	500B-125U	93.5	93.3	92.2	80.3	75.3	64.8	47	581	272	661	70	240	242	3978	6880
1000	750	991	500B-125U	93.8	93.8	93.0	82.2	78.0	68.5	51	579	296	734	60	230	246	4350	6880
1250	930	990	500C-125U	94.2	94.4	93.8	84.0	80.7	72.6	62	563	347	919	60	220	288	5289	7570
1500	1120	990	500D-125U	94.6	94.7	94.2	83.8	80.3	71.8	74	588	436	1102	70	230	328	6178	8220
1750	1320	992	560C-140U	94.3	94.1	93.2	85.0	81.2	72.7	86	669	578	1284	80	250	522	7615	9650
2000	1500	992	560D-140U	95.1	95.1	94.4	87.8	85.5	79.4	94	646	609	1467	70	240	620	7818	10540
2250	1680	994	630C-160V	95.6	95.5	94.9	85.2	83.0	76.6	108	612	663	1647	70	220	849	8566	12800
2500	1850	995	630D-160V	96.0	95.9	95.2	85.1	82.4	75.3	119	674	801	1828	80	210	965	10124	13950
3000	2240	995	630E-180V	96.2	96.1	95.5	85.2	82.5	75.3	143	690	990	2194	90	220	1089	11701	15060
3500	2650	995	630E-180V	96.3	96.3	95.7	85.1	82.3	75.0	170	690	1171	2559	90	220	1152	13183	15460
4000	3000	995	630E-180V	96.4	96.4	95.9	85.3	82.8	75.9	191	669	1281	2925	90	210	1224	14579	15860
4500	3360	995	630E-180V	96.5	96.5	96.1	85.0	82.5	75.6	215	666	1432	3291	90	210	1289	15897	16310
5000	3750	995	710D-200V	96.7	96.9	96.7	85.6	83.2	76.5	238	657	1562	3656	70	210	1778	15751	20460
5500	4100	995	710E-200V	96.8	97.0	96.7	85.8	83.5	77.1	259	661	1713	4022	70	210	1934	16830	21740
6000	4500	995	710E-200V	96.8	97.0	96.7	86.3	83.7	76.9	283	708	2002	4388	80	220	2095	19425	22540
6500	4850	994	800C-240V	96.6	96.6	96.1	85.8	82.7	74.9	307	678	2082	4758	70	250	2361	18864	27280
7000	5200	995	800D-240V	96.7	96.7	96.2	86.4	83.4	75.9	327	699	2283	5119	70	250	2662	19721	29380
7500	5600	995	800D-240V	96.7	96.6	96.1	85.8	82.3	74.0	354	750	2657	5484	80	250	2867	22393	29980
8000	6000	995	900B-260V	96.6	96.5	95.9	86.4	83.7	76.9	377	672	2536	5850	50	250	3683	21383	32110
9000	6700	995	900C-260V	96.6	96.5	95.9	85.9	82.7	75.1	424	713	3022	6581	60	250	4012	22853	34040
10000	7500	995	900D-260V	96.8	96.7	96.1	86.6	83.9	77.1	470	695	3264	7313	60	250	4367	24142	36390
11000	8200	995	900D-260V	96.8	96.8	96.2	86.5	83.7	76.7	514	707	3634	8044	60	250	4612	25261	37190
12000	8950	995	900D-260V	96.9	96.8	96.3	86.5	83.6	76.5	560	718	4024	8775	60	250	5001	26220	38190

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. This performance data is only for sinepower, not suitable for PWM power souce.
5. The voltage and frequency combinations not included in performance data are quoted case by case.

TEAAC, CLASS F INS, CLASS B TEMP, 40°C AMBIENT, S.F.1.0

8P 11000V 50Hz

TYPICAL PERFORMANCE

OUTPUT		FULL LOAD RPM	FRAME NO. (EZ)	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE			ROTOR GD ² KG-M ²	Max. Load GD ² KG-M ²	APPROX. WEIGHT 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			
500	375	742	450C-110U	93.0	93.1	92.4	76.0	70.7	59.6	28	542	151	490	90	200	202	5211	5270
600	450	742	450D-110U	93.0	93.2	92.4	76.0	70.5	59.2	33	565	189	588	100	210	237	6643	5800
700	520	741	500B-125U	93.0	93.2	92.6	81.8	77.8	68.4	36	574	206	687	90	210	278	7083	6600
800	600	742	500C-125U	93.5	93.8	93.2	81.4	77.3	67.6	41	613	254	784	100	210	305	8600	7140
900	670	742	500C-125U	93.8	94.0	93.5	81.1	76.9	67.0	46	621	287	883	110	210	319	9551	7290
1000	750	742	500D-125U	94.0	94.2	93.8	81.4	77.2	67.5	51	624	321	981	110	210	348	10487	7920
1250	930	744	560C-140U	94.5	94.7	94.3	82.0	77.7	68.1	63	614	387	1222	70	220	651	10774	9400
1500	1120	744	560D-140U	95.1	95.4	95.1	83.4	80.0	71.4	74	641	475	1467	70	230	817	12627	10770
1750	1320	745	630D-160U	95.6	95.6	95.1	81.5	77.1	67.5	89	663	590	1709	70	230	1209	14370	13320
2000	1500	745	630D-160U	95.7	95.8	95.3	81.7	77.4	67.8	101	667	672	1953	70	230	1320	16102	13820
2250	1680	745	630E-180U	95.9	96.0	95.5	81.5	77.1	67.3	113	691	780	2197	80	240	1457	19355	14810
2500	1850	745	630E-180U	96.1	96.2	95.7	81.9	77.7	68.1	123	689	850	2442	80	240	1592	21137	15410
3000	2240	745	630E-180U	96.2	96.3	95.9	81.9	77.8	68.5	149	666	994	2930	70	230	1677	22572	15810
3500	2650	745	710D-200U	96.0	96.1	95.6	84.0	80.1	71.2	172	698	1204	3418	70	250	2199	25570	19090
4000	3000	745	710E-200U	96.2	96.2	95.7	85.2	81.6	73.3	192	704	1352	3907	70	250	2506	28431	21560
4500	3360	745	800B-240V	96.3	96.3	95.7	81.9	77.2	66.9	224	663	1482	4395	60	250	2443.5	31165	24930
5000	3750	745	800C-240V	96.5	96.5	96.0	83.3	79.2	69.9	245	643	1574	4883	60	250	2684.6	33781	25780
5500	4100	745	800D-240V	96.5	96.6	96.2	84.0	80.3	71.5	265	634	1683	5372	60	240	2929.6	36287	27480
6000	4500	745	800D-240V	96.6	96.7	96.3	84.2	80.6	71.9	290	639	1856	5860	60	240	3172.7	38689	28180
6500	4850	746	900B-260V	96.5	96.5	96.0	81.8	78.0	69.1	322	597	1925	6340	50	210	3865.8	40846	29910
7000	5200	746	900B-260V	96.7	96.7	96.2	83.2	80.2	72.3	339	591	2005	6827	50	210	4395.8	43046	31310
7500	5600	746	900C-260V	96.7	96.7	96.3	83.4	80.2	72.3	364	611	2227	7315	50	210	4804.9	45156	33240
8000	6000	746	900C-260V	96.7	96.7	96.3	83.1	79.6	71.0	392	647	2536	7803	60	220	5211	47181	34240
9000	6700	746	900D-260V	96.8	96.8	96.4	83.2	79.7	71.2	437	654	2856	8778	60	220	5745.7	50983	36790

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. This performance data is only for sinewave, not suitable for PWM power source.
5. The voltage and frequency combinations not included in performance data are quoted case by case.

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

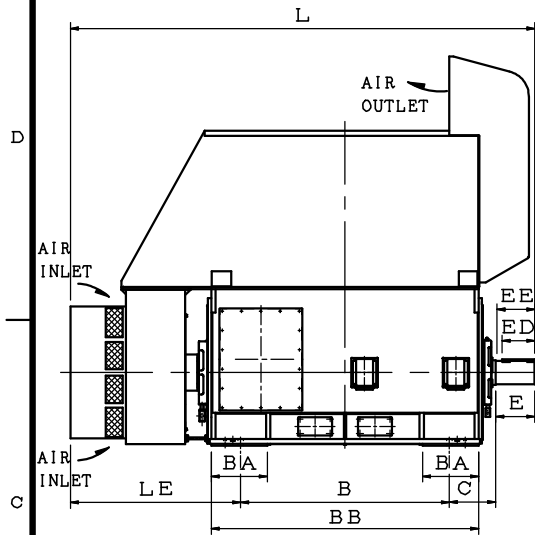


FIG. 1

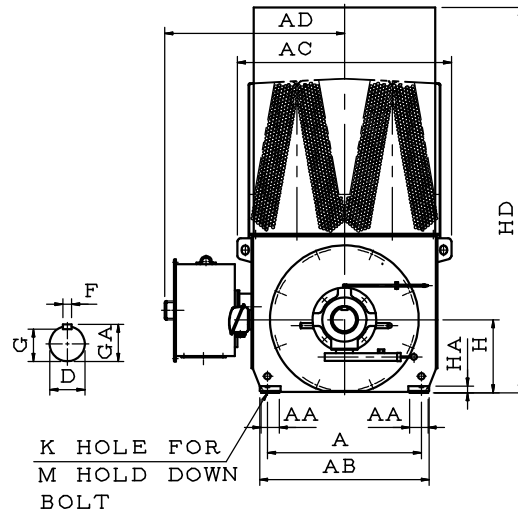
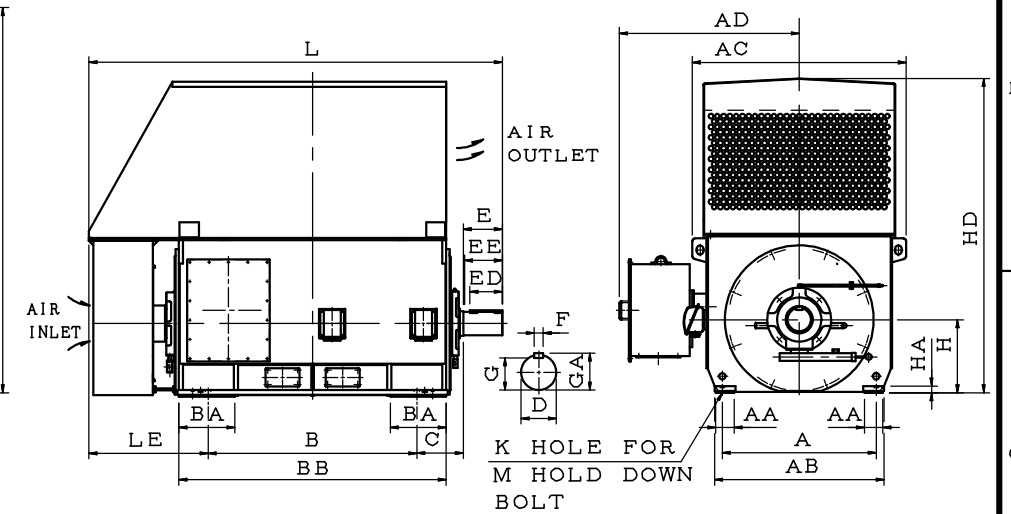


FIG. 2



FRAME NO.	NO. OF POLES	FIG	MOUNTING										SHAFT EXTENSION				KEY SIZE			BEARING		FRAME NO.						
			A	AA	AB	B	BA	BB	C	K	M	AC	AD	H	HA	HD	L	LE	D	E	EE		G	ED	F	GA	DRIVE END	OPP. D END
400D	4P	1	800	95	900	1120	355	1480	280	42	M30	1320	1168	400	40	2140	2580	1010	95	170	162	86	140	25	100	6320	6320	400D
400E	2P	1	800	95	900	1250	355	1610	280	42	M30	1320	1168	400	40	2140	2710	1010	85	170	157	76	140	22	90	6220C3	6315C3	400E
450C	4P	1	900	100	990	1120	380	1540	315	42	M30	1460	1243	450	40	2480	2685	1040	110	210	200	100	160	28	116	6324	6320	450C
450D	2P	1	900	100	990	1250	380	1670	315	42	M30	1460	1243	450	40	2480	2775	1040	85	170	157	76	140	22	90	6220C3	6315C3	450D
	4P	1														2480	2815	1040	125	210	202	114	160	32	132	6326	6322	
500C	4P	1	1000	140	1150	1250	405	1700	335	48	M36	1620	1308	500	40	2690	3010	1175	140	250	240	128	200	36	148	6330	6326	500C
	6P&8P	2														1900	2700	865	140	250	240	128	200	36	148	6330	6326	
500D	4P	1	1000	140	1150	1400	405	1850	335	48	M36	1620	1308	500	40	2690	3160	1175	140	250	240	128	200	36	148	6330	6326	500D
	6P&8P	2														1900	2850	865	140	250	240	128	200	36	148	6330	6326	
560C	6P&8P	2	1180	140	1280	1400	430	1850	355	55	M42	1760	1378	560	53	2055	2970	915	160	300	290	147	250	40	169	6334	6330	560C
560D	6P&8P	2	1180	140	1280	1600	430	2050	355	55	M42	1760	1378	560	53	2055	3170	915	160	300	290	147	250	40	169	6334	6330	560D

1. TOLERANCE OF SHAFT EXTENSION DIAMETER $D = m6$.
2. TOLERANCE OF SHAFT CENTER HEIGHT $H = \pm 0.1$ FOR $F \pm 630$ & BELOW, $H = \pm 0.2$ FOR $F \pm 710$ & UP.
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)400D-710E

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

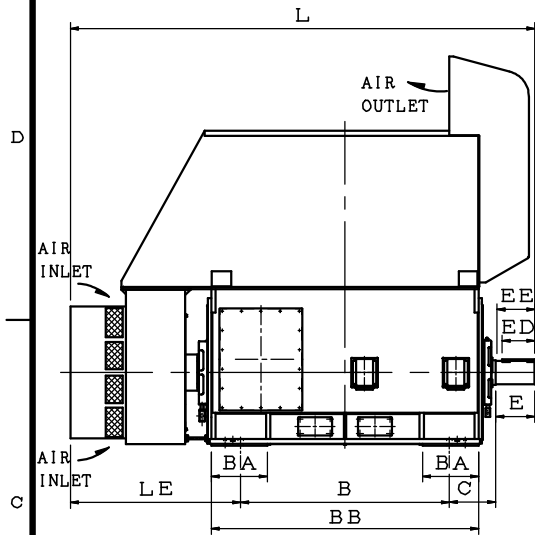
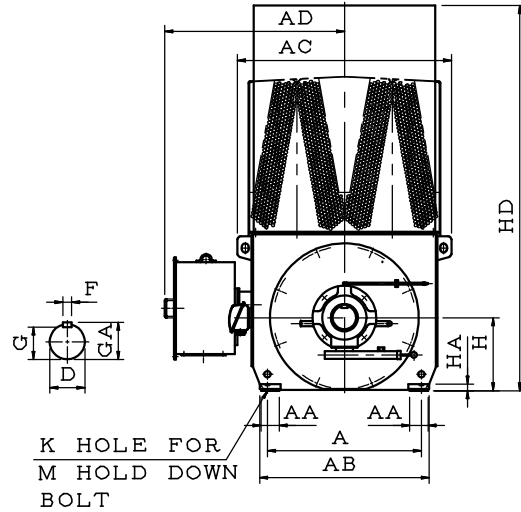


FIG. 1



K HOLE FOR
M HOLD DOWN
BOLT

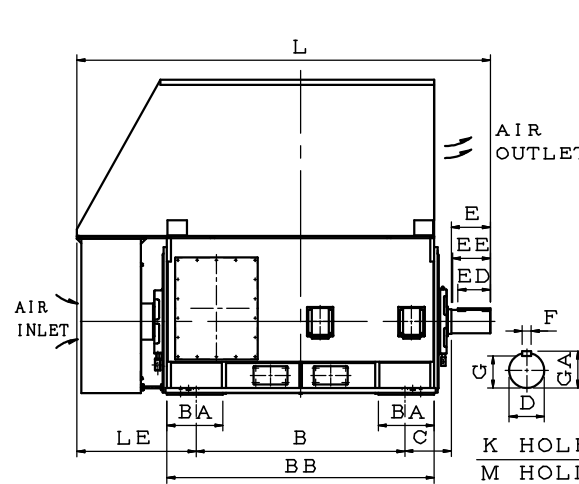
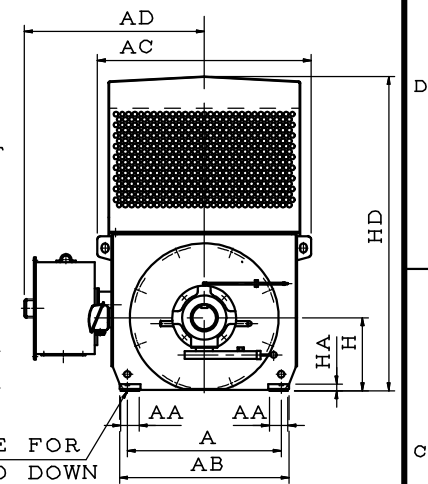


FIG. 2



K HOLE FOR
M HOLD DOWN
BOLT

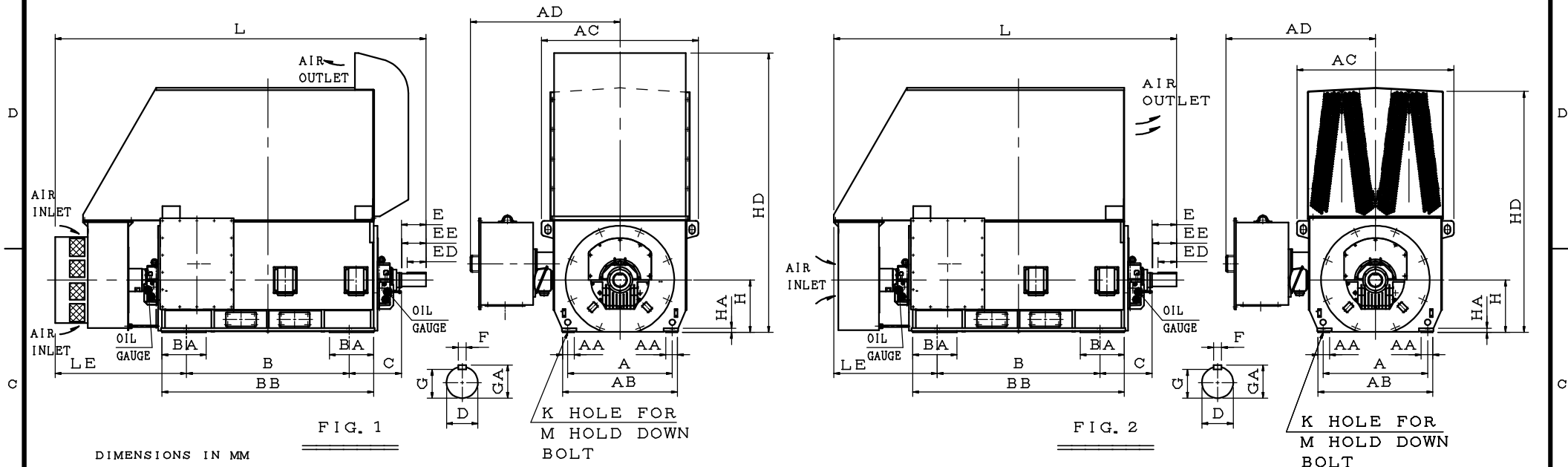
DIMENSIONS IN MM

FRAME NO.	NO. OF POLES	FIG	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	
630D	6P	2	1250	160	1400	1800	480	2300	375	55	M42	1900	1513	630	58	2600	3480	955	200	350	337	185	280	45	210	NU244	NU238	630D
630E	6P	2	1250	160	1400	2000	480	2500	375	55	M42	1900	1513	630	58	2600	3680	955	200	350	337	185	280	45	210	NU244	NU238	630E
	2450																											
710D	6P	2	1400	180	1570	2000	520	2550	475	55	M42	2240	1683	710	50	2970	3805	980	220	350	337	203	280	50	231	NU248	NU244	710D
	2720																											
710E	6P	2	1400	180	1570	2240	520	2700	475	55	M42	2240	1683	710	50	2970	4000	935	220	350	337	203	280	50	231	NU248	NU244	710E
	2720																											

1. TOLERANCE OF SHAFT EXTENSION DIAMETER $D = m6$.
2. TOLERANCE OF SHAFT CENTER HEIGHT $H = \pm 0.05$ FOR F#630 & BELOW, $H = \pm 0.08$ FOR F#710 & UP.
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)400D-710E

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



DIMENSIONS IN MM

FRAME NO.	NO. OF POLES	FIG	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	
400D	4P	1	800	95	900	1120	355	1480	400	42	M30	1320	1168	400	40	2140	2830	1140	95	170	164	86	140	25	100	9S/90	9S/80	400D
400E	2P	1	800	95	900	1250	355	1610	400	42	M30	1320	1168	400	40	2140	2960	1140	85	170	164	76	140	22	90	9S/80	9S/80	400E
450C	4P	1	900	100	990	1120	380	1540	450	42	M30	1460	1243	450	40	2480	3000	1220	110	210	204	100	160	28	116	11/110	9/80	450C
	6P&8P	2																										
450D	2P	1	900	100	990	1250	380	1670	450	42	M30	1460	1243	450	40	2480	3090	1220	95	170	164	86	140	25	100	9S/90	9S/80	450D
450D	4P	1	900	100	990	1250	380	1670	450	42	M30	1460	1243	450	40	2480	3130	1220	110	210	204	100	160	28	116	11/110	9/80	450D
	6P&8P	2																										
450E	2P	1	900	100	990	1400	380	1820	450	42	M30	1460	1243	450	40	2480	3240	1220	95	170	164	86	140	25	100	9S/90	9S/80	450E
500B	6P&8P	2	1000	140	1150	1120	405	1570	500	48	M36	1620	1318	500	40	2190	2730	900	125	210	204	114	160	32	132	11/125	11/110	500B
500C	6P&8P	2	1000	140	1150	1250	405	1700	500	48	M36	1620	1318	500	40	2190	2860	900	125	210	204	114	160	32	132	11/125	11/110	500C
500D	6P&8P	2	1000	140	1150	1400	405	1850	500	48	M36	1620	1318	500	40	2190	3010	900	125	210	204	114	160	32	132	11/125	11/110	500D
560C	6P&8P	2	1180	140	1280	1400	430	1850	530	55	M42	1760	1388	560	53	2410	3150	970	140	250	244	128	200	36	148	14/140	11/125	560C
560D	6P&8P	2	1180	140	1280	1600	430	2050	530	55	M42	1760	1388	560	53	2410	3350	970	140	250	244	128	200	36	148	14/140	11/125	560D
630D	8P	2	1250	160	1400	1800	480	2300	560	55	M42	1900	1513	630	58	2838	3655	995	160	300	294	147	250	40	169	14/160	11/125	630D
630E	8P	2	1250	160	1400	2000	480	2500	560	55	M42	1900	1513	630	58	2838	3855	995	180	300	287	165	250	45	190	18/180	14/140	630E
710D	8P	2	1400	180	1570	2000	520	2550	600	55	M42	2240	1683	710	50	3103	3970	1020	200	350	337	185	280	45	210	18/200	18/180	710D
710E	8P	2	1400	180	1570	2240	520	2700	600	55	M42	2240	1683	710	50	3103	4165	975	200	350	337	185	280	45	210	18/200	18/180	710E

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 SELF LUBRICATION (NATURAL COOLING).
6. PROVISION FOR NONCONTACTIVE VIBRATION PROBE, DISTANCE OF "C" HAVE TO BE CHANGED F#400:500, F#450:530, F#500:600 F#560:630, F#630:670, F#710:710

OUTLINE DIMENSIONS SHEET
3-PHASE INDUCTION MOTOR
FRAME NO. (EZ)400D-710E

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

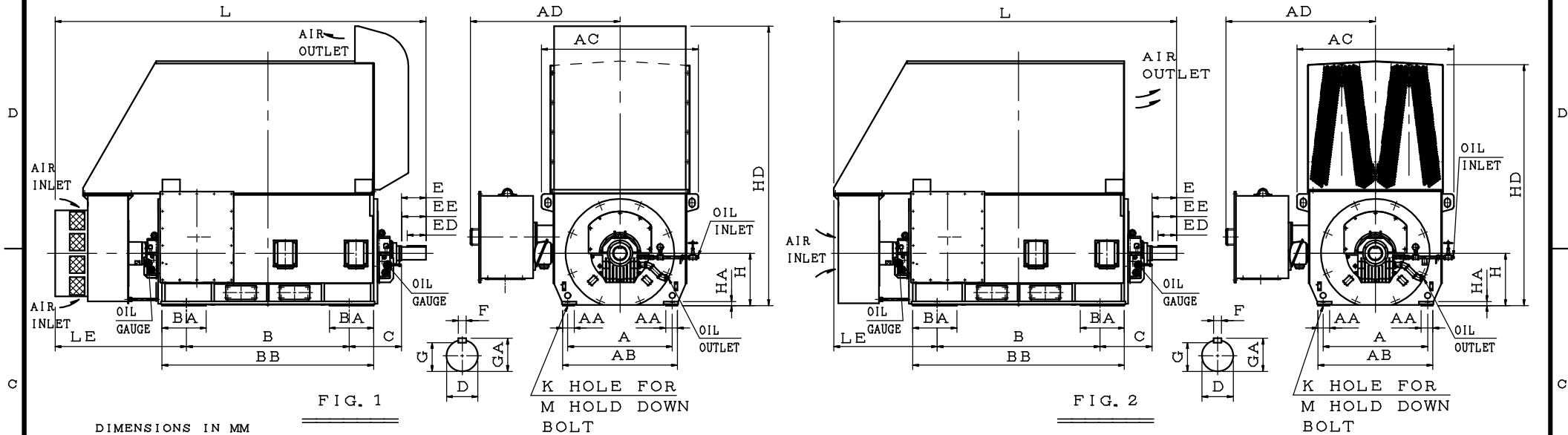


FIG. 1

FIG. 2

DIMENSIONS IN MM

FRAME NO.	NO. OF POLES	FIG	MOUNTING									AC	AD	H	HA	HD	L	LE	SHAFT EXTENSION				KEY SIZE			BEARING		FRAME NO.
			A	AA	AB	BA	BB	C	K	M	D								E	EE	G	ED	F	GA	DRIVE END	OPP. D END		
500C	4P	1	1000	140	1150	1250	405	1700	500	48	M36	1620	1318	500	40	2690	3300	1300	140	250	244	128	200	36	148	14/140	11/125	500C
500D	4P	1	1000	140	1150	1400	405	1850	500	48	M36	1620	1318	500	40	2690	3450	1300	140	250	244	128	200	36	148	14/140	11/125	500D
560C	4P	1	1180	140	1280	1400	430	1850	530	55	M42	1760	1388	560	53	2910	3550	1370	140	250	244	128	200	36	148	14/140	11/125	560C
630C	4P	1	1250	160	1400	1600	480	2100	530	55	M42	1900	1513	630	58	3373	3855	1425	160	300	294	147	250	40	169	14/160	11/125	630C
	6P	2																	2838	3425	995	14/160	11/125	630D				
630D	4P	1	1250	160	1400	1800	480	2300	530	55	M42	1900	1513	630	58	3373	4055	1425	160	300	294	147	250	40	169	14/160	11/125	630D
	6P	2																	2838	3625	995	14/160	11/125	630E				
630E	4P	1	1250	160	1400	2000	480	2500	560	55	M42	1900	1513	630	58	3373	4285	1425	180	300	287	165	250	45	190	18/180	14/140	630E
	6P	2																	2838	3855	995	18/180	14/140	710D				
710D	4P	1	1400	180	1570	2000	520	2550	600	55	M42	2240	1683	710	50	3633	4470	1520	200	350	337	185	280	45	210	18/200	18/180	710D
	6P	2																	3103	3970	1020	18/200	18/180	710E				
710E	4P	1	1400	180	1570	2240	520	2700	600	55	M42	2240	1683	710	50	3633	4665	1475	200	350	337	185	280	45	210	18/200	18/180	710E
	6P	2																	3103	4165	975	18/200	18/180	800B				
800B	6P & 8P	2	1700	220	1900	1800	600	2360	630	55	M42	2421	1795	800	65	3193	4015	1175	240	410	397	220	360	56	252	22/250	22/225	800B
800C	4P	1	1700	220	1900	2000	600	2560	630	55	M42	2421	1795	800	65	3850	4605	1625	220	350	337	203	280	50	231	22/225	22/200	800C
	6P & 8P	2																	3193	4215	1175	22/250	22/225					
800D	4P	1	1700	220	1900	2240	600	2700	630	55	M42	2421	1795	800	65	3850	4795	1575	220	350	337	203	280	50	231	22/225	22/200	800D
	6P & 8P	2																	3193	4405	1125	22/250	22/225					

1. TOLERANCE OF SHAFT EXTENSION DIAMETER $D = m6$.
2. TOLERANCE OF SHAFT CENTER HEIGHT $H = \pm 0.05$ FOR F#630 & BELOW, $H = \pm 0.1$ FOR F#710 & UP. (11000V 50HZ) AEZK/AEZKXC/AEZKXJ
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#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)500C-900D

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

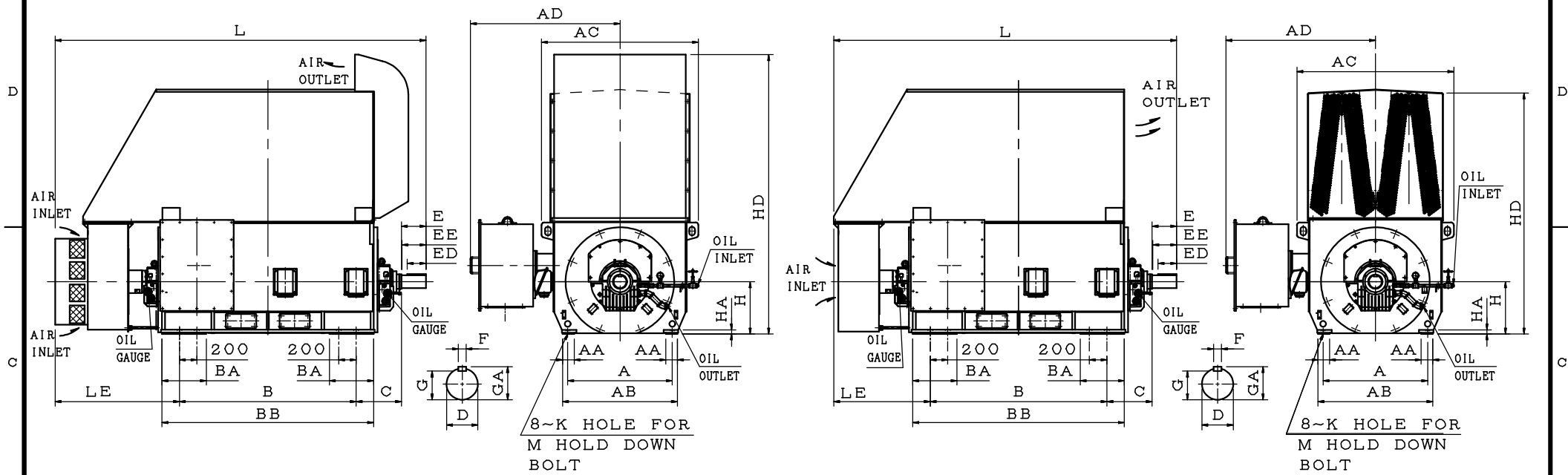


FIG. 1

FIG. 2

DIMENSIONS IN MM

FRAME NO.	NO. OF POLES	FIG	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	1	1800	220	1995	2000	600	2600	670	55	M42	2619	1894	900	65	4027	4725	1645	240	410	397	220	360	56	252	22/250	22/225	900B
	6P&8P	2																	260	410	397	240	360	56	272	22/250	22/225	
900C	4P	1	1800	220	1995	2240	600	2740	670	55	M42	2619	1894	900	65	4027	4915	1595	240	410	397	220	360	56	252	22/250	22/225	900C
	6P&8P	2																	260	410	397	240	360	56	272	22/250	22/225	
900D	6P&8P	2	1800	220	1995	2500	600	3000	670	55	M42	2619	1894	900	65	3373	4740	1160	260	410	397	240	360	56	272	22/250	22/225	900D

1. TOLERANCE OF SHAFT EXTENSION DIAMETER $D = m6$.
2. TOLERANCE OF SHAFT CENTER HEIGHT $H = \frac{H}{10}$ FOR $\frac{H}{10} \leq 630$ & BELOW, $H = 1$, FOR $\frac{H}{10} > 630$ & 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 $\frac{H}{10} 500:600$, $\frac{H}{10} 560:630$, $\frac{H}{10} 630:670$, $\frac{H}{10} 710:710$, $\frac{H}{10} 800:750$, $\frac{H}{10} 900:800$

OUTLINE DIMENSIONS SHEET
3-PHASE INDUCTION MOTOR
FRAME NO. (EZ)500C-900D