文件變更通知單 No.097037

編號	3A057H607E	名稱	AFJE PRODUCT NOTE F#315AA~400CB

版數：01

變更理由：
1.外扇材質變更(2P使用軸流扇)
2.外形圖L與LE尺寸修正(爲符合EN294規定)

變更內容：
3A057H608E REV.00 → REV.01
4B049M571E REV.00 → REV.01
4B049M572E REV.00 → REV.01
4B049M573E REV.00 → REV.01
4B049M574E REV.00 → REV.01
4B049M575E REV.00 → REV.01
4B049M576E REV.00 → REV.01

發行		
份數	單位	簽收
	海外營業一處	電子
	海外營業二處	電子
	重電營業處	電子
	研發中心-設計課-技術股	電子
	中壢二廠-品管課	電子
	研發中心-電設課	電子
	研發中心-機設課	電子
	全球生產運籌中心-計三課	電子
	HTEM-設計處	電子
	研發中心-業務技術課	電子
	研發中心-電設課-AD股	電子
	李宏基-不copy僅通知網頁更新版	電子
	研發中心-機設課-M4股	電子
	中壢二廠-品管課-成檢股-檢C班	電子
	中壢二廠-品管課-成檢股-檢D班	電子

核定	C.Wang Jun.9.2009	複審	H.S.TSAO JUN.9.2009	擬案	H.CHEN JUN.09.2009	發行日期				
						發行單位	電設課			

TECO

ISSUED : JAN. 09 2009
REVISED : JUN. 09 2009

PRODUCT NOTE

MODEL : AFJE

STANDARD 3-PHASE HIGH EFFICIENCY INDUCTION MOTORS
LOW VOLTAGE (415V & 440V) SQUIRREL CAGE
FRAME NO. (EG) 315AA ~ 400CB

TABLE OF CONTENTS

重	
外F1	
外F2	
設計課	
研機	1
製品	3
研電	2
機MA	1
研技	
計三課	
HTEM	
外F1鋼	

REV.01 JUN. 09 2009 No.097037

APPD.	C.WANG	JUN.09.2009
CHKD.	THSTAO	JUN.09.2009
DWN.	H.CHEN	JUN.09.2009

TECO Electric & Machinery Co., Ltd.

DWG NO. 3A057H607E
REV. 01 1/1

ISSUED JAN. 09 2009 / REVISED JUN. 09 2009	**SPECIFICATION TABLE** 3-PHASE HIGH EFFICIENCY INDUCTION MOTORS LOW VOLTAGE SQUIRREL CAGE	MODEL **AFJE**

	ITEM	STANDARD SPECIFICATION
RATING	KIND OF MOTOR	SQUIRREL-CAGE INDUCTION MOTOR (SCIM)
	DESIGN STANDARD	IEC, JEC
	VOLTAGE	415V, 440V
	FREQUENCY	50HZ OR 60HZ
	OUTPUT RANGE	150 ~ 1000HP (110 ~ 750kW)
	R.P.M. (SYN.)	3000 ~ 750R.P.M. (2 ~ 8 POLE) 50HZ 3600 ~ 900R.P.M. (2 ~ 8 POLE) 60HZ
	TIME DUTY	CONTINUOUS S.F. 1.0 (S1, MCR)
	FRAME NO. (EG)	315AA ~ 400CB
	PROTECTION ENCLOSURE	TOTALLY ENCLOSED (IP54)
	COOLING METHOD	SELF EXTERNAL FAN, SURFACE COOLING (IC 411)
	MOUNTING	HORIZONTAL FOOT MOUNTING (IM 1001, B3, F-1)
APPLICATION	POWER CONDITIONS	VOLTAGE : ±10%, FREQUENCY ±5%, AND 10% MAX. OF COMBINED VOLTAGE AND FREQUENCY
	ENVIRONMENT CONDITIONS	PLACE : SHADOW, NON-HAZARDOUS CSA CLASS I , DIV. 2, GROUP, B, C, D (OPTION) AMBIENT TEMPERATURE : -20 ~ 40℃ RELATIVE HUMIDITY : LESS THAN 95% RH (NON-CONDENSATION) ALTITUDE : LESS THAN 1000 METERS
	DRIVE METHOD	DIRECT COUPLING
	DIRECTION OF ROTATION	COUNTER-CLOCKWISE FACING THE DRIVE END, AVAILABLE FOR BI-DIRECTIONAL EXCEPT 2 POLE
	METHOD OF STARTING	FULL VOLTAGE ACROSS-THE-LINE OR REDUCED VOLTAGE STARTING (OPTION)
CONSTRUCTION	DIMENSIONS	AS DWG NO. 4B049M571E, 572E, 573E, 574E, 575E, 4B049M576E
	FRAME	HIGH GRADE CAST IRON
	END BRACKET	HIGH GRADE CAST IRON
	EXTERNAL FAN	ALUMINUM, EXCEPT 2 POLE WHICH IS REINFORCED PLASTIC
	FAN COVER	STEEL PLATE FABRICATED
	SHAFT	CARBON STEEL, CYLINDRICAL SINGLE EXTENSION WITH KEYWAY AND KEY
	BEARING	BRACKET MOUNTING, VACUUM DE-GASSED HIGH QUALITY ROLLING BEARINGS WITH REGREASE PROVISIONS

APPD.	T.H.STAO	JUN.09.2009
CHKD.	M.Y.HSU	JUN.09.2009
DWN.	H.CHEN	JUN 09 2009

TECO Electric & Machinery Co., Ltd.

DWG NO. 3A057H608E

REV.01

	ITEM	STANDARD SPECIFICATION
CONSTRUCTION	LUBRICANT	MINERAL OIL, LI-BASE GREASE (SHELL ALVANIA RL3), EXCEPT 2 POLE WHICH IS ESSO POLYREX EM GREASE
	SHAFT FLINGER	METAL FLINGER ON BOTH ENDS
	TERMINAL BOX	CAST IRON, LARGE SIZE, THREADED FOR EXTERNAL CONDUIT EXTRANCE, AT LEFT-HAND SIDE FACING THE DRIVE END, RIGHT-HAND SIDE IS ACCEPTABLE WHEN REQUEST
	LEAD TERMINAL	6 LEADS, WITH SOLDERLESS LUG TERMINALS
	IRON CORE	HIGH GRADE, INSULATED, COLD-ROLLED ELECTRO-MAGNETIC STEEL PLATE
	STATOR WINDING	RANDOM WOUND WITH HEAVY BUILT, HEAT-RESISTANT POLYESTER, ENAMELED COPPER WIRE OR FORMED WOUND MADE OF INSULATED RECTANGULAR COPPER WIRE
	STATOR INSULATION	CLASS F INSULATION SYSTEM
	VARNISH TREATMENT	2-DIP WITH SOLVENTLESS EPOXY RESIN AND 1-SPRAY ENAMEL TOP COATING
	ROTOR WINDING	SQUIRREL-CAGE, ALUMINUM CONDUCTOR WITH END-RING AND WAFER BLADES INTEGRALLY CAST, COPPER OR COPPER ALLOY BAR IS ACCEPTABLE WHEN REQUEST
	PAINTING	MODIFIED PHENOL RESIN WITH IRON OXIDE RUST PROOF BASE, PLUS ALKYD SURFACE FINISH PAINTING IN BLUE-GRAY COLOR (MUNSELL 7.5B 3.5/0.5)
	NAMEPLATE	STAINLESS STEEL PLATE
	BOLT THREAD	ISO METRIC SYSTEM
	GROUNDING TERMINAL	BE SET INSIDE OF TERMINAL BOX AND ON FOOT OF FRAME
PERFORMANCE	TEST PROCEDURE	IEC 60034 OR JEC 37
	TYPICAL PERFORMANCE	AS DWG NO. 3A057H611E, 3A057H612E
	TEMPERATURE RISE	NOT TO EXCEED 80℃ BY RESISTANCE METHOD
	OVER SPEED	120% SYN. R.P.M. FOR TWO MIN.
	OVER TORQUE	160% RATED TORQUE FOR 15 SEC
	NOISE	BELOW 85dBA AT 1 METER DISTANCE NO LOAD

ISSUED	FRAME ALLOCATION	MODEL
JAN. 09 2009		AFJE
REVISED	3-PHASE HIGH EFFICIENCY INDUCTION MOTORS LOW VOLTAGE SQUIRREL CAGE	415V 50Hz

OUTPUT		2P	4P	6P	8P
HP	(kW)	FRAME NO.	FRAME NO.	FRAME NO.	FRAME NO.
150	110	—	—	—	315AB
175	132	—	—	—	315AB
200	150	—	—	315AB	315AB
215	160	—	—	315AB	315CB
250	185	—	—	315AB	315CB
268	200	—	—	315CB	315CB
300	220	315AA	315AB	315CB	315DB
335	250	315CA	315CB	315CB	315DB
375	280	315CA	315CB	315DB	315DB
400	300	315CA	315CB	315DB	355CB
425	315	315DA	315DB	315DB	355CB
475	355	315DA	315DB	355CB	355CB
535	400	315DA	315DB	355CB	400CB
600	450	355CA	355CB	355CB	400CB
670	500	400CA	355CB	400CB	400CB
750	560	400CA	355CB	400CB	—
800	600	400CA	400CB	400CB	—
845	630	400CA	400CB	400CB	—
870	650	400CA	400CB	400CB	—
950	710	—	400CB	—	—

APPD.	T.H.SIAO	JAN-13.2009	TECO Electric & Machinery Co., Ltd.	DWG NO. 3A057H609E
CHKD.	M.Y.HSU	JAN.13.2009		REV.00 1/1
DWN.	H.CHEN	JAN.10.2009		

ISSUED	FRAME ALLOCATION	MODEL
JAN. 09 2009		AFJE
REVISED	3-PHASE HIGH EFFICIENCY INDUCTION MOTORS LOW VOLTAGE SQUIRREL CAGE	440V 60Hz

OUTPUT		2P	4P	6P	8P
HP	(kW)	FRAME NO.	FRAME NO.	FRAME NO.	FRAME NO.
150	110	—	—	—	315AB
175	132	—	—	—	315AB
200	150	—	—	315AB	315AB
215	160	—	—	315AB	315AB
250	185	—	—	315AB	315CB
268	200	—	—	315AB	315CB
300	220	315AA	315AB	315CB	315CB
335	250	315AA	315AB	315CB	315DB
375	280	315CA	315CB	315CB	315DB
400	300	315CA	315CB	315DB	315DB
425	315	315CA	315CB	315DB	355CB
475	355	315DA	315DB	315DB	355CB
535	400	315DA	315DB	355CB	355CB
600	450	315DA	315DB	355CB	400CB
670	500	355CA	355CB	355CB	400CB
750	560	400CA	355CB	400CB	400CB
800	600	400CA	355CB	400CB	—
845	630	400CA	400CB	400CB	—
870	650	400CA	400CB	400CB	—
950	710	400CA	400CB	400CB	—
1000	750	—	400CB	—	—

APPD.	T.H.HSIAO	JAN.13.2009	TECO Electric & Machinery Co., Ltd.	DWG NO. 3A057H610E
CHKD.	H.Y.HSU	JAN.12.2009		REV.00 1/1
DWN.	H.CHEN	JAN.10.2009		

ISSUED	PERFORMANCE DATA	MODEL
JAN. 09 2009	3-PHASE HIGH EFFICIENCY INDUCTION MOTORS	**AFJE**
REVISED	LOW VOLTAGE SQUIRREL CAGE	415V 50Hz

TEFC, 2P 415V 50HZ

TYPICAL PERFORMANCE (415V)

OUTPUT		FULL LOAD	FRAME NO.	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE		SAFE STALL TIME(S)		ROTOR GD^2	MAX. LOAD GD^2	NOISE	APPROX. WEIGHT
HP	(kW)			FULL LOAD	3/4 LOAD	1/2 LOAD	FULL LOAD	3/4 LOAD	1/2 LOAD	RATED	STARTING	STARTING	STARTING	MAX.	HOT	COLD				
		RPM	(EG)	%	%	%	%	%	%	A	%	A	%	%	SEC	SEC	$KG\text{-}M^2$	$KG\text{-}M^2$	(dBA)	KGS
300	220	2969	315AA	96.0	95.9	95.3	90.5	88.8	83.7	352	701	2468	74	244	15	18	8.1	68	83	1310
335	250	2971	315CA	96.0	95.9	95.4	90.7	89.2	84.2	400	737	2948	70	255	15	18	9.3	81	83	1490
375	280	2971	315CA	96.3	96.2	95.7	90.7	89.5	84.9	446	740	3299	79	256	15	18	10.3	90	83	1560
400	300	2971	315CA	96.3	96.3	95.8	91.2	90.1	85.7	475	743	3531	71	254	15	18	10.8	99	83	1590
425	315	2973	315DA	96.4	96.4	95.9	91.2	90.1	86.7	499	726	3624	70	246	15	18	11.8	107	83	1850
475	355	2973	315DA	96.4	96.4	96.0	91.5	90.5	87.4	560	745	4172	73	251	15	18	13.5	120	83	1970
535	400	2973	315DA	96.4	96.4	96.0	91.5	90.8	88.1	631	745	4698	79	251	15	17	14.9	135	83	2070
600	450	2977	355CA	96.5	96.4	95.8	91.5	90.5	87.1	709	746	5286	81	251	20	27	24.0	146	84	2600
670	500	2979	400CA	96.6	96.5	96.0	89.1	86.6	79.9	808	717	5790	77	247	20	27	30.0	171	84	3080
750	560	2979	400CA	96.6	96.5	96.1	89.5	87.0	80.6	902	728	6568	70	249	20	27	32.8	175	84	3200
800	600	2979	400CA	96.6	96.6	96.2	89.5	87.0	80.6	965	730	7047	74	251	20	27	34.4	188	84	3280
845	630	2980	400CA	96.7	96.6	96.3	89.2	86.9	80.8	1016	729	7406	75	251	20	27	38.3	196	84	3450
870	650	2979	400CA	96.7	96.7	96.3	89.7	87.6	81.8	1043	728	7598	75	246	20	27	38.3	204	84	3450

NOTE :

1. Test standard : IEC 60034 or JEC 37
2. Tolerance : IEC 60034
3. Stray Loss : 0.5% X Input ;

APPD.	T.HSIAO	JAN 13.2009
CHKD.	M.Y.HSU	JAN.12.2009
DWN.	H.CHEN	JAN 10.2009

TECO Electric & Machinery Co., Ltd.

DWG NO. 3A057H611E

TEFC, 4P 415V 50HZ

TYPICAL PERFORMANCE (415V)

OUTPUT		FULL LOAD	FRAME NO.	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE		SAFE STALL TIME(S)		ROTOR GD^2	MAX. LOAD GD^2	NOISE	APPROX. WEIGHT
HP	(kW)	RPM	(EG)	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	RATED A	STARTING %	STARTING A	STARTING %	MAX. %	HOT SEC	COLD SEC	$KG\text{-}M^2$	$KG\text{-}M^2$	(dBA)	KGS
300	220	1482	315AB	95.7	95.8	95.5	87.0	84.1	76.5	367	681	2498	121	243	13	15	22.6	425	82	1500
335	250	1482	315CB	95.9	96.0	95.7	86.8	83.7	75.6	418	697	2912	128	250	12	15	24.9	492	82	1650
375	280	1482	315CB	96.0	96.1	95.8	86.9	83.8	75.7	467	701	3275	131	251	12	14	27.2	538	82	1720
400	300	1482	315CB	96.2	96.3	96.1	87.4	84.5	77.1	497	702	3491	132	250	12	14	29.5	566	82	1790
425	315	1484	315DB	96.3	96.4	96.1	87.2	84.4	77.5	522	705	3682	133	243	13	20	33.0	639	82	2080
475	355	1484	315DB	96.4	96.5	96.2	87.0	84.2	77.2	589	708	4172	135	246	13	20	37.0	732	82	2200
535	400	1484	315DB	96.4	96.5	96.3	87.6	84.8	78.2	659	710	4678	137	243	13	19	40.5	830	82	2300
600	450	1485	355CB	96.5	96.5	96.0	88.2	86.2	80.1	736	716	5269	96	230	19	22	45.9	1004	82	2620
670	500	1485	355CB	96.6	96.6	96.2	88.1	86.0	79.9	818	717	5861	97	230	19	22	49.9	1085	82	2720
750	560	1485	355CB	96.6	96.6	96.2	87.9	85.9	79.7	917	717	6573	98	230	18	21	54.6	1185	82	2840
800	600	1485	400CB	96.7	96.7	96.3	86.5	83.8	75.5	998	703	7018	86	236	22	27	64.1	1639	84	3350
845	630	1485	400CB	96.7	96.7	96.4	86.7	84.1	75.9	1046	707	7396	95	239	22	27	66.1	1694	84	3400
870	650	1485	400CB	96.7	96.7	96.4	88.4	86.4	79.5	1058	719	7607	93	236	22	27	70.1	1749	84	3500
950	710	1486	400CB	96.7	96.7	96.4	87.6	85.3	77.8	1166	717	8361	90	235	22	27	76.1	1859	84	3650

NOTE :

1. Test standard : IEC 60034 or JEC 37
2. Tolerance : IEC 60034
3. Stray Loss : 0.5% X Input ;

TEFC, 6P 415V 50HZ

TYPICAL PERFORMANCE (415V)

OUTPUT		FULL	FRAME	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE		SAFE STALL TIME(S)		ROTOR	MAX. LOAD	NOISE	APPROX.
HP	(kW)	LOAD RPM	NO. (EG)	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	RATED A	STARTING %	STARTING A	STARTING %	MAX. %	HOT SEC	COLD SEC	GD^2 KG-M^2	GD^2 KG-M^2	(dBA)	WEIGHT KGS
200	150	985	315AB	95.1	95.1	94.5	84.7	80.8	72.0	259	627	1623	94	231	18	25	19.4	760	80	1280
215	160	985	315AB	95.2	95.2	94.7	84.7	81.4	72.8	276	635	1752	97	234	18	25	21.2	829	80	1330
250	185	985	315AB	95.3	95.4	94.9	85.4	82.0	73.6	316	631	1995	92	232	17	25	23.6	882	80	1400
268	200	985	315CB	95.4	95.4	94.9	85.2	81.7	73.3	342	623	2131	87	228	18	24	25.3	1117	80	1540
300	220	985	315CB	95.5	95.5	95.0	85.0	81.2	72.4	377	638	2406	91	234	18	24	27.7	1255	80	1610
335	250	985	315CB	95.7	95.8	95.3	85.0	81.1	72.3	427	641	2736	93	234	18	23	30.6	1366	80	1690
375	280	985	315DB	95.8	95.9	95.5	85.7	82.9	75.1	475	639	3033	91	232	19	23	35.3	1521	80	2010
400	300	986	315DB	95.9	96.0	95.6	85.8	82.9	75.0	507	662	3354	101	241	19	23	38.9	1819	80	2120
425	315	986	315DB	96.0	96.0	95.7	85.8	82.9	74.9	532	678	3606	105	246	19	23	41.8	1865	80	2200
475	355	987	355CB	96.2	96.2	95.8	87.4	85.0	78.9	588	700	4115	97	236	19	22	62.5	1911	81	2500
535	400	987	355CB	96.3	96.3	95.9	86.6	83.8	77.3	667	704	4698	98	242	19	22	72.7	2236	81	2700
600	450	987	355CB	96.3	96.3	96.0	86.6	83.8	77.4	751	704	5290	98	240	19	22	78.9	2491	81	2820
670	500	988	400CB	96.4	96.4	96.1	85.2	81.4	73.4	847	692	5865	97	244	19	22	86.0	2831	82	3070
750	560	988	400CB	96.5	96.5	96.2	84.6	80.9	72.8	955	689	6582	96	248	18	22	95.8	3126	82	3270
800	600	988	400CB	96.6	96.7	96.4	84.7	81.1	73.1	1021	690	7047	95	246	18	21	100.7	3207	82	3370
845	630	988	400CB	96.6	96.7	96.4	84.6	81.1	73.2	1073	692	7427	93	245	18	22	106.9	3414	82	3500
870	650	988	400CB	96.6	96.7	96.4	85.4	81.8	74.1	1096	696	7633	99	244	18	22	110.5	3615	82	3570

NOTE :

1. Test standard : IEC 60034 or JEC 37
2. Tolerance : IEC 60034
3. Stray Loss : 0.5% X Input ;

TEFC, 8P 415V 50HZ

TYPICAL PERFORMANCE (415V)

OUTPUT		FULL LOAD	FRAME NO.	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE		SAFE STALL TIME(S)		ROTOR GD^2	MAX. LOAD GD^2	Noise	APPROX. WEIGHT
HP	(kW)	RPM	(EG)	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	RATED A	STARTING %	STARTING A	STARTING %	MAX. %	HOT SEC	COLD SEC	KG-M^2	KG-M^2	(dBA)	KGS
150	110	737	315AB	94.6	94.7	94.0	79.1	73.9	59.1	205	545	1118	92	207	18	26	24.2	898	79	1130
175	132	737	315AB	94.8	94.9	94.4	79.7	74.8	60.5	243	558	1355	96	208	18	26	29.0	1067	79	1240
200	150	737	315AB	95.0	95.1	94.7	79.5	74.9	63.6	276	578	1595	102	216	18	26	33.0	1247	79	1320
215	160	737	315CB	95.1	95.2	94.8	80.3	75.4	64.8	292	578	1687	101	214	17	25	36.3	1374	79	1480
250	185	737	315CB	95.2	95.3	94.9	79.7	74.6	63.9	339	589	1997	107	219	16	25	40.3	1482	79	1570
268	200	737	315CB	95.3	95.4	95.0	79.7	74.5	63.8	366	602	2203	111	224	17	25	44.3	1810	79	1650
300	220	737	315DB	95.4	95.6	95.2	80.2	75.9	65.7	400	598	2392	109	221	17	25	50.0	1929	79	1960
335	250	738	315DB	95.7	95.8	95.4	79.3	74.3	63.3	458	641	2935	111	238	16	24	58.8	2292	79	2150
375	280	737	315DB	95.7	95.8	95.5	79.9	75.3	64.8	509	618	3148	107	229	17	24	62.9	2469	79	2230
400	300	738	355CB	95.8	96.0	95.7	81.2	77.1	67.3	537	653	3509	108	231	17	24	82.7	2742	79	2740
425	315	738	355CB	95.9	96.0	95.8	80.6	76.8	67.2	567	644	3649	105	230	17	24	90.2	2882	79	2860
475	355	738	355CB	96.0	96.1	95.9	80.6	76.8	67.2	639	651	4157	107	232	17	24	101.3	3227	79	3040
535	400	740	400CB	96.1	96.1	95.6	80.4	76.3	65.0	720	653	4705	96	226	17	24	134.2	3576	81	3240
600	450	740	400CB	96.1	96.1	95.7	80.9	76.7	66.4	805	637	5125	93	219	17	24	146.4	3886	81	3420
670	500	740	400CB	96.2	96.3	95.9	80.4	76.4	66.4	899	644	5790	97	222	17	24	158.6	4780	81	3590

NOTE :

1. Test standard : IEC 60034 or JEC 37
2. Tolerance : IEC 60034
3. Stray Loss : 0.5% X Input ;

TECO Electric & Machinery Co., Ltd.

DWG NO.
3A057H611E
REV.00 4/4

ISSUED	PERFORMANCE DATA	MODEL
JAN. 09 2009	3-PHASE HIGH EFFICIENCY INDUCTION MOTORS	**AFJE**
REVISED	LOW VOLTAGE SQUIRREL CAGE	440V 60Hz

TEFC, 2P 440V 60HZ

TYPICAL PERFORMANCE (440V)

OUTPUT		FULL LOAD	FRAME NO.	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE		SAFE STALL TIME(S)		ROTOR GD^2	MAX. LOAD GD^2	NOISE	APPROX. WEIGHT
HP	(kW)	RPM	(EG)	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	RATED A	STARTING %	STARTING A	STARTING %	MAX. %	HOT SEC	COLD SEC	KG-M^2	KG-M^2	(dBA)	KGS
300	220	3570	315AA	95.9	95.6	94.8	90.5	88.4	83.1	333	702	2337	71	243	16	19	7.1	43	85	1240
335	250	3571	315AA	96.0	95.8	95.0	90.5	88.2	82.8	378	733	2769	70	254	16	19	8.1	54	85	1310
375	280	3572	315CA	96.2	96.0	95.3	90.8	89.2	84.4	421	736	3100	70	254	16	19	9.3	60	85	1490
400	300	3572	315CA	96.2	96.0	95.3	91.2	89.8	85.6	449	740	3323	70	253	16	19	10.3	62	85	1560
425	315	3571	315CA	96.3	96.1	95.5	91.2	89.9	86.0	471	744	3504	70	251	16	19	10.8	63	85	1590
475	355	3574	315DA	96.4	96.2	95.6	91.4	90.1	85.9	529	744	3935	71	253	16	19	11.8	87	85	1850
535	400	3573	315DA	96.4	96.3	95.8	91.4	90.6	87.6	596	743	4428	80	249	16	19	13.5	89	85	1970
600	450	3573	315DA	96.5	96.4	96.0	91.4	90.7	87.9	670	739	4949	72	246	16	19	14.9	91	85	2070
670	500	3576	355CA	96.5	96.4	96.0	91.4	90.8	88.3	744	703	5227	80	237	20	27	24.0	104	85	2600
750	560	3579	400CA	96.5	96.3	95.5	91.4	89.2	82.9	833	745	6208	70	246	20	27	29.4	114	85	3050
800	600	3578	400CA	96.5	96.3	95.6	91.5	90.0	85.5	892	714	6371	70	234	20	27	33.3	123	85	3230
845	630	3580	400CA	96.5	96.3	95.6	91.5	89.8	84.9	937	748	7010	73	243	20	27	36.1	128	85	3350
870	650	3578	400CA	96.5	96.3	95.7	91.5	90.2	85.9	966	717	6922	71	234	20	27	37.2	133	85	3400
950	710	3577	400CA	96.5	96.4	95.9	91.6	90.8	87.5	1054	642	6762	71	209	20	27	38.3	134	85	3450

NOTE :

1. Test standard : IEC 60034 or JEC 37
2. Tolerance : IEC 60034
3. Stray Loss : 0.5% X Input ;

APPD.	T.H SHAO	JAN. 3.2009
CHKD.	M.Y. HSU	JAN.12.2009
DWN.	H. CHEN	JAN.10.'09

TECO Electric & Machinery Co., Ltd.

DWG NO. 3A057H612E

REV.00

TEFC, 4P 440V 60HZ

TYPICAL PERFORMANCE (440V)

OUTPUT		FULL	FRAME	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE		SAFE STALL TIME(S)		ROTOR	MAX. LOAD	NOISE	APPROX.
HP	(kW)	LOAD RPM	NO. (EG)	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	RATED A	STARTING %	STARTING A	STARTING %	AMX. %	HOT SEC	COLD SEC	GD^2 KG-M^2	GD^2 KG-M^2	(dBA)	WEIGHT KGS
300	220	1781	315AB	95.7	95.8	95.4	87.5	85.1	78.8	345	648	2235	108	224	13	16	19.7	252	84	1420
335	250	1783	315AB	95.9	95.9	95.5	86.6	83.5	75.6	395	701	2768	122	245	13	16	22.6	336	84	1500
375	280	1783	315CB	96.0	96.0	95.7	87.0	84.0	76.4	440	701	3083	123	244	13	16	24.9	355	84	1650
400	300	1782	315CB	96.2	96.2	95.9	87.8	85.2	78.2	466	714	3327	128	244	13	15	27.2	378	84	1720
425	315	1784	315CB	96.3	96.3	95.9	86.6	83.7	76.0	495	705	3489	126	248	14	20	29.5	475	84	1790
475	355	1785	315DB	96.4	96.4	96.1	86.2	83.2	75.2	560	703	3935	125	248	14	20	33.0	488	84	2080
535	400	1784	315DB	96.5	96.5	96.3	87.5	85.0	78.2	622	711	4423	129	244	14	20	37.0	544	84	2200
600	450	1784	315DB	96.6	96.7	96.4	87.5	85.1	78.4	698	713	4976	131	244	14	20	40.5	650	84	2300
670	500	1785	355CB	96.6	96.5	96.1	89.1	87.3	82.3	762	728	5550	86	229	20	24	45.9	716	84	2620
750	560	1785	355CB	96.6	96.6	96.1	88.7	86.6	81.4	858	725	6222	86	230	20	23	49.9	774	84	2720
800	600	1785	355CB	96.6	96.6	96.2	88.6	87.1	82.0	920	721	6636	90	230	20	24	54.6	893	84	2840
845	630	1785	400CB	96.8	96.7	96.3	87.3	84.2	77.3	978	713	6969	82	237	25	30	60.1	1130	85	3250
870	650	1785	400CB	96.8	96.8	96.4	89.0	87.0	81.4	990	727	7197	82	235	25	29	64.1	1153	85	3350
950	710	1786	400CB	96.9	96.9	96.5	88.4	86.4	80.5	1088	720	7838	78	230	25	30	70.1	1199	85	3500
1000	750	1785	400CB	96.9	96.9	96.5	89.4	87.8	82.6	1136	727	8261	79	230	25	30	76.1	1264	85	3650

NOTE :

1. Test standard : IEC 60034 or JEC 37
2. Tolerance : IEC 60034
3. Stray Loss : 0.5% X Input ;

TEFC, 6P 440V 60HZ

TYPICAL PERFORMANCE (440V)

OUTPUT		FULL LOAD	FRAME NO.	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE		SAFE STALL TIME(S)		ROTOR GD^2	MAX. LOAD GD^2	NOISE	APPROX. WEIGHT
HP	(kW)			FULL LOAD	3/4 LOAD	1/2 LOAD	FULL LOAD	3/4 LOAD	1/2 LOAD	RATED	STARTING	STARTING	STARTING	MAX.	HOT	COLD				
		RPM	(EG)	%	%	%	%	%	%	A	%	A	%	%	SEC	SEC	KG-M^2	KG-M^2	(dBA)	KGS
200	150	1185	315AB	95.4	95.3	94.6	84.8	81.2	72.9	243	640	1556	94	230	18	26	17.7	563	82	1230
215	160	1185	315AB	95.4	95.3	94.7	85.1	82.1	74.3	259	643	1665	96	230	18	26	19.4	607	82	1280
250	185	1185	315AB	95.5	95.5	94.9	85.2	81.7	73.6	298	651	1941	103	234	18	26	21.2	699	82	1330
268	200	1186	315AB	95.5	95.4	94.9	84.7	81.2	72.6	325	681	2214	106	246	18	26	23.6	806	82	1400
300	220	1185	315CB	95.6	95.6	95.0	85.4	82.4	74.9	354	649	2296	100	231	18	26	25.3	986	82	1540
335	250	1185	315CB	95.8	95.8	95.3	85.2	81.7	73.8	402	660	2655	104	236	18	24	27.7	1099	82	1610
375	280	1185	315CB	95.9	95.9	95.5	86.0	83.2	76.2	445	646	2874	100	229	18	24	30.6	1133	82	1690
400	300	1186	315DB	96.0	96.0	95.5	86.2	83.3	76.2	476	681	3240	106	240	18	24	35.3	1373	82	2010
425	315	1186	315DB	96.1	96.1	95.6	86.7	84.3	77.1	496	681	3379	105	237	18	24	38.9	1390	82	2120
475	355	1186	315DB	96.2	96.2	95.8	86.9	84.7	78.6	557	661	3680	102	229	18	24	41.8	1406	82	2200
535	400	1187	355CB	96.4	96.3	95.9	86.6	84.2	77.2	629	704	4426	98	237	18	24	62.5	1423	83	2500
600	450	1187	355CB	96.4	96.4	95.9	87.1	85.0	78.8	704	708	4985	100	237	18	24	72.7	1821	83	2700
670	500	1187	355CB	96.5	96.5	96.0	86.7	84.4	77.8	785	706	5539	100	238	18	24	78.9	2013	83	2820
750	560	1188	400CB	96.6	96.6	96.2	85.9	82.9	74.7	885	702	6214	100	244	18	24	86.0	2331	83	3070
800	600	1188	400CB	96.6	96.6	96.2	85.1	81.9	73.6	957	691	6609	93	242	18	24	92.1	2432	83	3200
845	630	1188	400CB	96.7	96.7	96.4	85.0	81.7	73.2	1006	694	6985	95	246	18	24	97.0	2626	83	3300
870	650	1188	400CB	96.7	96.7	96.4	85.9	82.9	74.7	1027	701	7200	102	247	18	23	100.7	2654	83	3370
950	710	1187	400CB	96.7	96.7	96.5	87.5	85.4	78.9	1101	682	7512	96	232	18	24	110.5	2682	83	3570

NOTE :

1. Test standard : IEC 60034 or JEC 37
2. Tolerance : IEC 60034
3. Stray Loss : 0.5% X Input ;

TEFC, 8P 440V 60HZ

TYPICAL PERFORMANCE (440V)

OUTPUT		FULL LOAD	FRAME NO.	EFFICIENCY			POWER FACTOR			CURRENT			TORQUE		SAFE STALL TIME(S)		ROTOR GD^2	MAX. LOAD GD^2	NOISE	APPROX. WEIGHT
HP	(kW)			FULL LOAD	3/4 LOAD	1/2 LOAD	FULL LOAD	3/4 LOAD	1/2 LOAD	RATED	STARTING	STARTING	STARTING	MAX.	HOT	COLD				
		RPM	(EG)	%	%	%	%	%	%	A	%	A	%	%	SEC	SEC	KG-M^2	KG-M^2	(dBA)	KGS
150	110	887	315AB	94.7	94.7	94.0	80.6	76.5	64.5	189	568	1074	91	206	20	26	24.2	768	80	1130
175	132	887	315AB	94.8	94.8	94.3	80.3	76.3	63.8	227	564	1281	94	202	20	26	26.6	792	80	1180
200	150	887	315AB	95.0	95.1	94.6	80.1	75.8	66.1	259	566	1467	97	205	19	26	29.0	868	80	1240
215	160	887	315AB	95.2	95.2	94.7	80.6	76.4	66.9	274	590	1616	100	211	19	26	33.0	964	80	1320
250	185	888	315CB	95.5	95.5	95.0	79.5	74.5	64.1	320	611	1954	104	222	16	24	36.3	1022	80	1480
268	200	888	315CB	95.5	95.5	95.0	80.0	75.3	65.2	343	618	2121	105	223	17	24	40.3	1266	80	1570
300	220	888	315CB	95.6	95.6	95.2	79.8	74.8	64.7	379	632	2397	109	229	17	24	44.3	1356	80	1650
335	250	888	315DB	95.8	95.9	95.4	80.4	75.8	66.1	426	628	2677	108	225	16	24	50.0	1421	80	1960
375	280	887	315DB	95.9	96.0	95.6	81.6	77.9	69.2	469	617	2893	103	216	18	24	58.8	1456	80	2150
400	300	887	315DB	95.9	96.0	95.6	81.6	77.8	69.0	503	623	3132	105	218	17	24	62.9	1490	80	2230
425	315	888	355CB	96.0	96.0	95.7	80.4	76.5	67.1	536	651	3488	107	226	15	22	82.7	1525	80	2740
475	355	888	355CB	96.0	96.1	95.7	80.7	76.9	67.4	601	655	3935	108	226	17	23	90.2	2327	80	2860
535	400	888	355CB	96.0	96.1	95.8	81.4	77.6	68.3	672	659	4431	104	227	17	23	101.3	2558	80	3040
600	450	890	400CB	96.1	96.1	95.6	81.5	77.9	68.9	754	640	4829	94	215	17	23	134.2	2730	83	3240
670	500	890	400CB	96.2	96.2	95.7	81.4	77.8	68.7	837	644	5388	96	216	17	23	146.4	3330	83	3420
750	560	890	400CB	96.2	96.2	95.7	80.6	76.4	66.7	948	655	6208	103	224	17	23	158.6	3628	83	3590

NOTE :

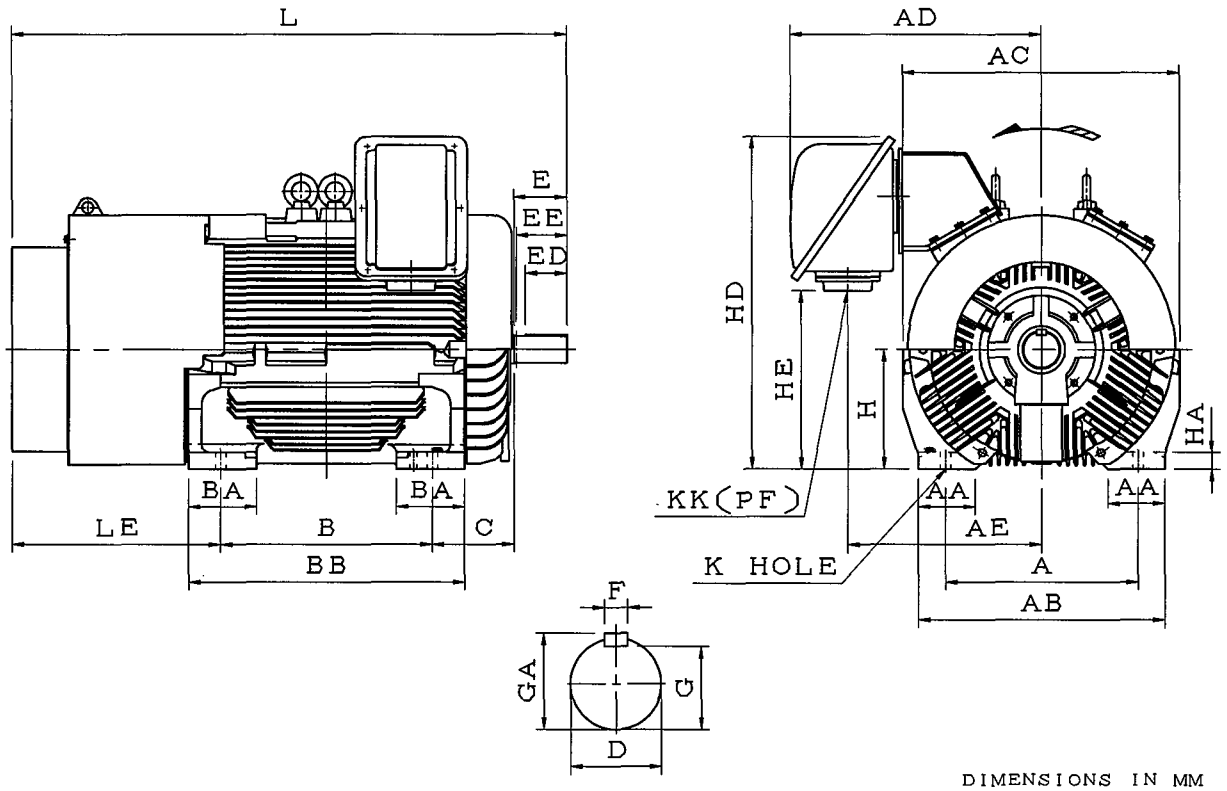
1. Test standard : IEC 60034 or JEC 37
2. Tolerance : IEC 60034
3. Stray Loss : 0.5% X Input ;

TECO Electric & Machinery Co., Ltd.

DWG NO.
3A057H612E
REV.00 4/4

ISSUED JAN. 09 2009	OUTLINE DIMENSION SHEET	MODEL AFJE
REVISED JUN. 09 2009	3—PHASE HIGH EFFICIENCY INDUCTION MOTORS FRAME NO. (EG) 315AA ~ 315CA	2P

TOTALLY ENCLOSED FAN COOLED TYPE. SQUIRREL CAGE ROTOR



DIMENSIONS IN MM

FRAME NO. (EG)	POLE	A	AA	AB	AC	AD	AE	B	BA	BB	C	D	E	ED	EE
315AA—70R	2P	508	150	650	730	666	511	560	180	730	216	70	140	110	134
315CA—70R		508	150	650	730	666	511	710	180	880	216	70	140	110	134

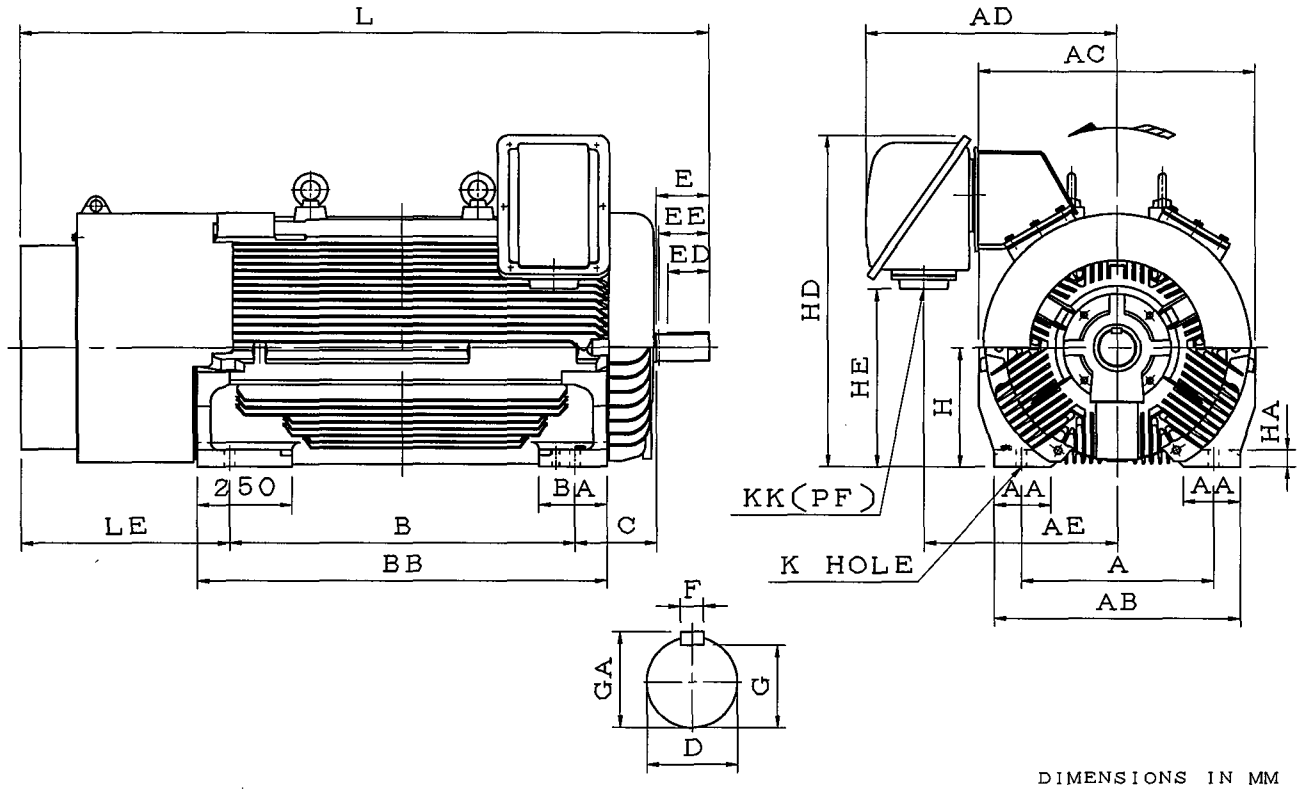
FRAME NO. (EG)	F	G	GA	H	HA	HD	HE	K	KK	L	LE	BEARING	
												DRIVE—END	OPP. DRIVE—END
315AA—70R	20	62.5	74.5	315	45	874	469	28	4″	1486	570	6315C3	6315C3
315CA—70R	20	62.5	74.5	315	45	874	469	28	4″	1636	570	6315C3	6315C3

NOTE: 1. TOLERANCE OF SHAFT END DIAMETER D:m6
2. TOLERANCE OF SHAFT CENTER HEIGHT H:+0,—1
3. FOR DIRECT FLEXIBLE COUPLING
4. USABLE SHAFT LENGTH: EE

APPD.	C.WANG	JUN.09.2009	TECO Electric & Machinery Co., Ltd.	DWG NO. 4B049M571E
CHKD.	B.LIN	JUN.09.2009		REV. 01
DWN.	H.CHEN	JUN.09.2009		

ISSUED JAN. 09 2009	OUTLINE DIMENSION SHEET	MODEL AFJE
REVISED JUN. 09 2009	3—PHASE HIGH EFFICIENCY INDUCTION MOTORS FRAME NO. (EG) 315DA	2P

TOTALLY ENCLOSED FAN COOLED TYPE. SQUIRREL CAGE ROTOR



DIMENSIONS IN MM

FRAME NO. (EG)	POLE	A	AA	AB	AC	AD	AE	B	BA	BB	C	D	E	ED	EE
315DA—70R	2P	508	150	650	730	666	511	910	180	1080	216	70	140	110	134

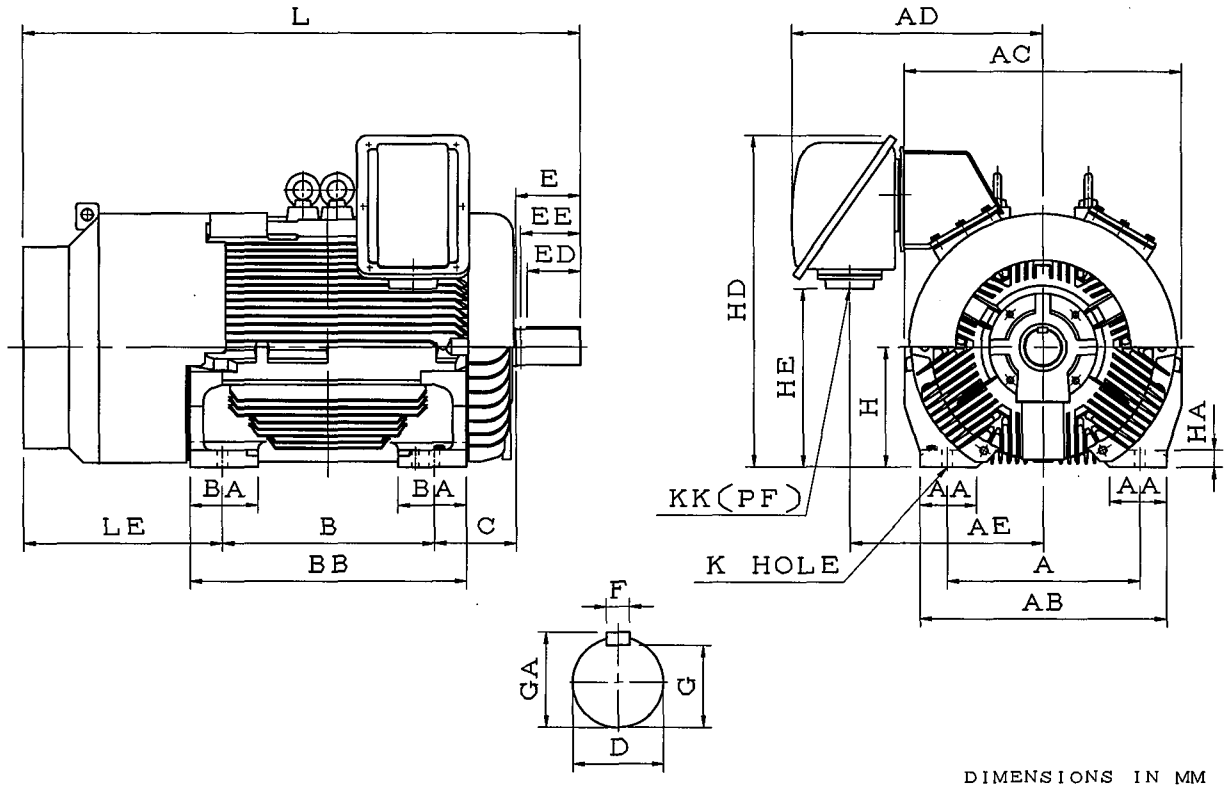
FRAME NO. (EG)	F	G	GA	H	HA	HD	HE	K	KK	L	LE	BEARING	
												DRIVE—END	OPP. DRIVE—END
315DA—70R	20	62.5	74.5	315	45	874	469	28	4″	1836	570	6315C3	6315C3

NOTE: 1. TOLERANCE OF SHAFT END DIAMETER D:m6
2. TOLERANCE OF SHAFT CENTER HEIGHT H:+0,—1
3. FOR DIRECT FLEXIBLE COUPLING
4. USABLE SHAFT LENGTH: EE

APPD.	C.WANG	JUN.09.2009	TECO Electric & Machinery Co., Ltd.	DWG NO. 4B049M572E REV. 01
CHKD.	B.LIN	JUN.09.2009		
DWN.	H.CHEN	JUN.09.2009		

ISSUED JAN. 09 2009	OUTLINE DIMENSION SHEET	MODEL AFJE
REVISED AUG. 09 2009	3—PHASE HIGH EFFICIENCY INDUCTION MOTORS FRAME NO. (EG) 315AB ~ 315CB	4P, 6P, 8P

TOTALLY ENCLOSED FAN COOLED TYPE. SQUIRREL CAGE ROTOR



DIMENSIONS IN MM

FRAME NO. (EG)	POLE	A	AA	AB	AC	AD	AE	B	BA	BB	C	D	E	ED	EE
315AB—95R	4~8P	508	150	650	730	666	511	560	180	730	216	95	170	140	157
315CB—95R		508	150	650	730	666	511	710	180	880	216	95	170	140	157

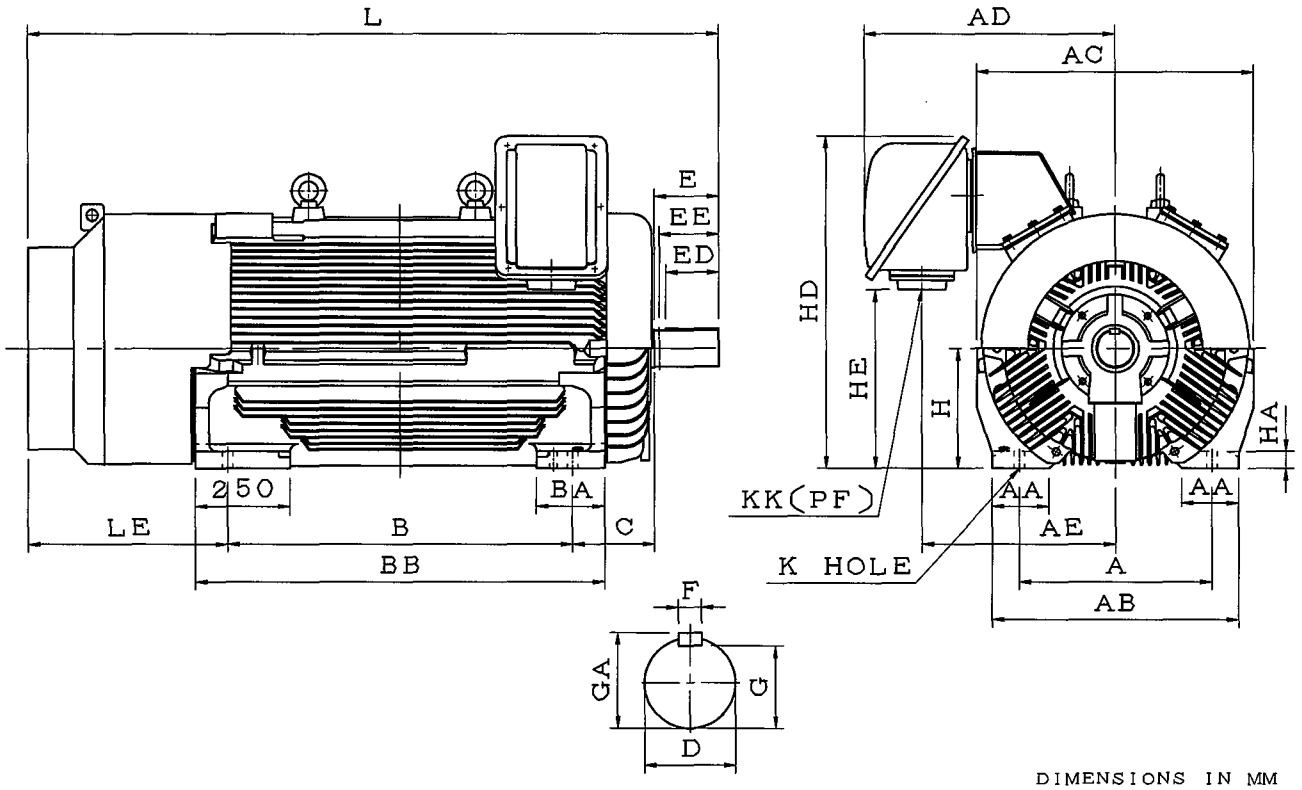
FRAME NO. (EG)	F	G	GA	H	HA	HD	HE	K	KK	L	LE	BEARING	
												DRIVE—END	OPP. DRIVE—END
315AB—95R	25	86	100	315	45	874	469	28	4"	1481	535	6220	6220
315CB—95R	25	86	100	315	45	874	469	28	4"	1631	535	6220	6220

NOTE: 1. TOLERANCE OF SHAFT END DIAMETER D:m6
2. TOLERANCE OF SHAFT CENTER HEIGHT H:+0,—1
3. FOR DIRECT FLEXIBLE COUPLING
4. USABLE SHAFT LENGTH: EE

APPD.	C.WANG	JUN.09.2009	TECO Electric & Machinery Co., Ltd.	DWG NO. 4B049M573E
CHKD.	B.LIN	JUN.09.2009		
DWN.	H.CHEN	JUN.09.09		REV.01

ISSUED JAN. 09 2009	OUTLINE DIMENSION SHEET	MODEL AFJE
REVISED JUN. 09 2009	3—PHASE HIGH EFFICIENCY INDUCTION MOTORS FRAME NO. (EG) 315DB	4P, 6P, 8P

TOTALLY ENCLOSED FAN COOLED TYPE. SQUIRREL CAGE ROTOR



DIMENSIONS IN MM

FRAME NO. (EG)	POLE	A	AA	AB	AC	AD	AE	B	BA	BB	C	D	E	ED	EE
315DB—95R	4~8P	508	150	650	730	666	511	910	180	1080	216	95	170	140	157

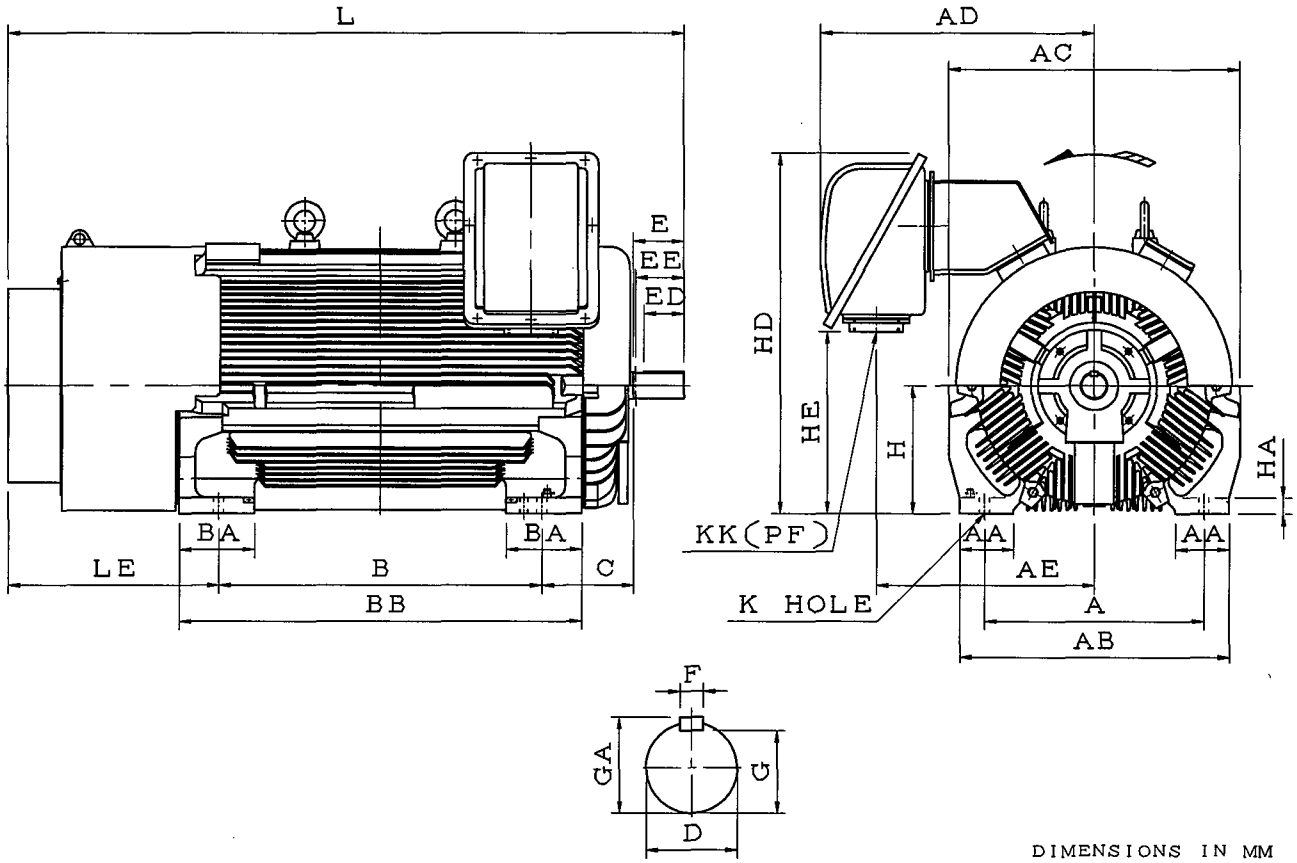
FRAME NO. (EG)	F	G	GA	H	HA	HD	HE	K	KK	L	LE	BEARING	
												DRIVE—END	OPP. DRIVE—END
315DB—95R	25	86	100	315	45	874	469	28	4″	1831	535	6220	6220

NOTE: 1. TOLERANCE OF SHAFT END DIAMETER D:m6
2. TOLERANCE OF SHAFT CENTER HEIGHT H:+0,—1
3. FOR DIRECT FLEXIBLE COUPLING
4. USABLE SHAFT LENGTH: EE

APPD.	C.WANG	JUN.09.2009	TECO Electric & Machinery Co., Ltd.	DWG NO. 4B049M574E
CHKD.	B.LIN	JUN.09.2009		REV. 01
DWN.	H.CHEN	JUN.09.2009		

ISSUED JAN. 09 2009	OUTLINE DIMENSION SHEET	MODEL AFJE
REVISED JUN. 09 2009	3—PHASE HIGH EFFICIENCY INDUCTION MOTORS FRAME NO. (EG) 355CA ~ 400CA	2P

TOTALLY ENCLOSED FAN COOLED TYPE. SQUIRREL CAGE ROTOR



DIMENSIONS IN MM

FRAME NO. (EG)	POLE	A	AA	AB	AC	AD	AE	B	BA	BB	C	D	E	ED	EE
355CA—70R	2P	610	150	750	810	762	607	900	210	1120	254	70	140	110	134
400CA—85R		686	150	810	860	774	619	1000	245	1260	280	85	170	140	164

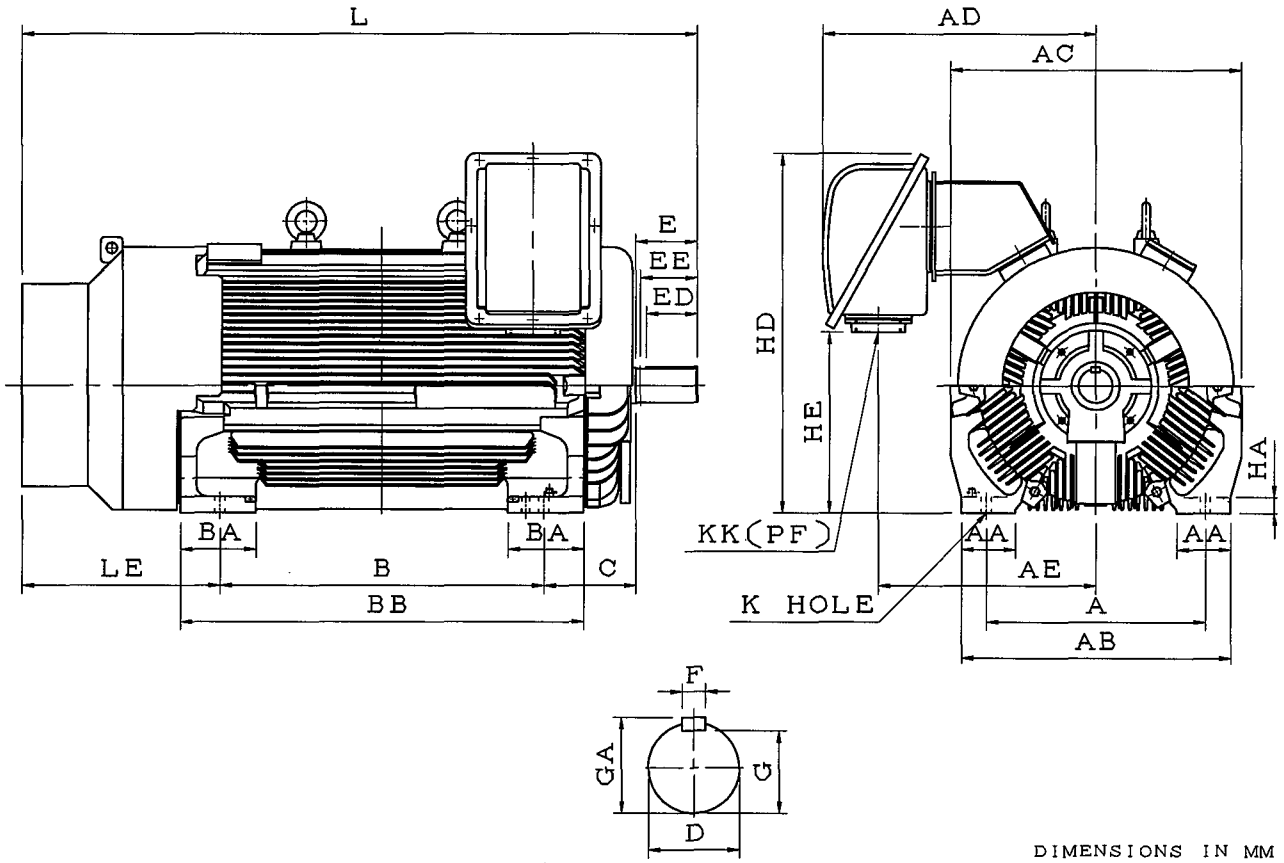
FRAME NO. (EG)	F	G	GA	H	HA	HD	HE	K	KK	L	LE	BEARING	
												DRIVE—END	OPP. DRIVE—END
355CA—70R	20	62.5	74.5	355	45	997	504	28	5″	1889	595	6315C3	6315C3
400CA—85R	22	76	90	400	40	1062	569	35	5″	2065	615	6318C3	6315C3

NOTE: 1. TOLERANCE OF SHAFT END DIAMETER D:m6
2. TOLERANCE OF SHAFT CENTER HEIGHT H:+0,—1
3. FOR DIRECT FLEXIBLE COUPLING
4. USABLE SHAFT LENGTH: EE

APPD.	C.WANG	JUN.09.2009	TECO Electric & Machinery Co., Ltd.	DWG NO. 4B049M575E
CHKD.	B.LIN	JUN.09.2009		
DWN.	H.CHEN	JUN.09.2009		REV. 01

ISSUED JAN 09 2009	OUTLINE DIMENSION SHEET	MODEL AFJE
REVISED JUN 09 2009	3—PHASE HIGH EFFICIENCY INDUCTION MOTORS FRAME NO. (EG) 355CB ~ 400CB	4P, 6P, 8P

TOTALLY ENCLOSED FAN COOLED TYPE. SQUIRREL CAGE ROTOR



DIMENSIONS IN MM

FRAME NO. (EG)	POLE	A	AA	AB	AC	AD	AE	B	BA	BB	C	D	E	ED	EE
355CB—95R	4~8P	610	150	750	810	762	607	900	210	1120	254	95	170	140	157
400CB—110R		686	150	810	860	774	619	1000	245	1260	280	110	210	160	197

FRAME NO. (EG)	F	G	GA	H	HA	HD	HE	K	KK	L	LE	BEARING	
												DRIVE—END	OPP. DRIVE—END
355CB—95R	25	86	100	355	45	997	504	28	5″	1884	560	6222	6220
400CB—110R	28	100	116	400	40	1062	569	35	5″	2070	580	6224	6220

NOTE: 1. TOLERANCE OF SHAFT END DIAMETER D:m6
2. TOLERANCE OF SHAFT CENTER HEIGHT H:+0,—1
3. FOR DIRECT FLEXIBLE COUPLING
4. USABLE SHAFT LENGTH: EE

APPD.	C.WANG	JUN.09.2009	TECO Electric & Machinery Co., Ltd.	DWG NO. 4B049M576E
CHKD.	B.LIN	JUN.09.2009		REV. 01
DWN.	H.CHEN	JUN.09.2009		