

EFFECTIVE : 25-Sep-12

REVISED : _____

PRODUCT NOTE

MODEL : AEEV1H / AEUV1H

TYPE : AEEVF3 / AEUVF3

IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS
LOW VOLTAGE SQUIRREL CAGE TEFC
FRAME NOS. : 80M ~ 355L

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		APPD.	Ben Yang	25-Sep-12	DWG NO. 32057R9245 REV. 00
		CHKD.	Chiwen CHEN	25-Sep-12	
		DWN.	SHITOU	25-Sep-12	
TECO Electric & Machinery Co., Ltd. Wuxi, China					1/1

ISSUED			SPECIFICATION TABLE					MODEL		
25-Sep-12								AEEV1H / AEUV1H		
REVISED			IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS LOW VOLTAGE SQUIRREL CAGE					PAGE		
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ITEM			STANDARD SPECIFICATION							
R A T I N G	Kind of Motors		Squirrel - Cage Induction Motors (SCIM) .							
	Design Standards		GB, IEC							
	Voltages		380V, 400V, 415V							
	Frequency		50Hz							
	Output Range		0.55 kW ~ 315 kW .							
	R.P.M. (Syn.)		3000 ~ 1000 R.P.M. (2 ~ 6 Poles) .							
	Time Duty		Continuous. S1 , S.F. : 1.0 .							
	Frame Nos.		80M ~ 355L .							
	Protection Enclosure		Totally Enclosed (IP 55) .							
	Cooling Method		Self External Fan, Surface Cooling (IC 411) .							
A P P L I C A T I O N	Environment Conditions		Place : Shadow, Non-Hazardous. Ambient Temperature : -15 ~ 40℃ .							
			Relative Humidity : Less Than 90%RH (Non-Condensation) .							
			Altitude : Less Than 1,000 Meters .							
			Power Source Conditions		Voltage : ±10%, Frequency : ±5%, and 10% Max. of Combined Voltage and Frequency. But Frequency Variation Does Not Exceed ±5% .					
			Method of Starting		Full Voltage Direct On Line or Y - △ Starting .					
C O N S T R U C T I O N	Dimensions		Mounting		Frame Nos.	DWG No.	Frame Nos.	DWG No.		
			IM B3		80M ~ 250M	32057R9248	280S ~ 355L	3W049U305		
			IM B5		80M ~ 250M	32057R9249	280S ~ 315M	3W049U307		
			IM B35		80M ~ 250M	32057R9250	280S ~ 355L	3W049U311		
			IM V1		80M ~ 250M	32057R9251	280S ~ 355L	3W049U369		
Frame		High Grade Cast Iron .								
End Bracket		High Grade Cast Iron .								
External Fan		Polypropylene .								
Fan Cover		Pressed Plate .								
APPD.	Chiwen CHEN	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China					DWG NO.		
CHKD.	SHITOU	25-Sep-12						32057R9246		
DWN.	TDY	25-Sep-12						REV. 00		
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ISSUED 25-Sep-12			SPECIFICATION TABLE			MODEL AEEV1H / AEUV1H		
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			IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS LOW VOLTAGE SQUIRREL CAGE					
ITEM			STANDARD SPECIFICATION					
C O N S T R U C T I O N	Shaft		Carbon Steel, Cylindrical Single Extension with Keyway and Key .					
	Bearing		Bracket Mounting , Vacuum De - Gassed High Quality Open Bearings for Frame Nos. 180M ~ 355L, Grease Pre - Packed Shielded Rolling Bearings for the Others .					
	Lubrication		Mineral Oil, Li - Base Grease (MULTEMP SRL)					
	Lead Terminal		Solderless Lug Terminals .					
	Shaft Flinger		V-ring on Both End .					
	Terminal Box		Cast iron, Can be Rotated Each 90° With Conduit Hole for Cable Entrance . The Terminal Box is Usually Placed on The Top of The Frame and The Cables Could be Let Out from Four Possible Directions .					
	Iron Core		High Grade, Insulated, Cold - Rolled Electro - Magnetic Steel Plate .					
	Stator Winding		Pre - Formed, Random Wound, Made of Heavy, Polyester Enameled Copper Wire .					
	Stator Insulation		Class F Insulation System .					
	Varnish Treatment		Phenolic Alkyd Resin Varnish .					
	Rotor Winding		Squirrel Cage, Aluminium Conductor with End - Ring and Wafer Blades Integrally Cast .					
	Painting		Phenolic Rust Proof Base Plus Lacquer Surface Finished Painting in Blue - Gray Color (Munsell 7.5B 3.5/0.5) .					
	Name Plate		Stainless Steel Plate .					
	Bolt Thread		ISO Metric System .					
	Grounding Terminal		Be Set Inside the Terminal Box .					
P E R F O R M A N C E	Test Procedure		GB/T 1032 Method B, IEC 60034-2-1 And Full Voltage Measuring Starting Performance .					
	Typical Performance		As DWG NO. 32057R9247 .					
	Winding Temperature Rise		Not to Exceed 80 °C Rise by Resistance Method at S.F 1.0 Operation .					
	Over Speed		120% Syn. R.P.M. for 2 Min .					
	Over Torque		160% Rated Torque for 15 Sec .					
APPD.	Chiwen CHEN	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China				DWG NO.	
CHKD.	SHITOU	25-Sep-12					32057R9246	
DWN.	TDY	25-Sep-12					REV. 00	
							2/2	

ISSUED				PERFORMANCE DATA										MODEL					
17-Apr-12				IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS LOW VOLTAGE SQUIRREL CAGE										AEEV1H / AEUV1H					
REVISED														PAGE					
				TEFC, CLASS F, 40°C AMBIENT TEMP. IEC ; GB DESIGN N CONTINUOUS DUTY S.F. 1.0, 380V 50HZ										3 of 65					
TEFC, CLASS F, 40°C AMBIENT TEMP. IEC ; GB DESIGN N CONTINUOUS DUTY S.F. 1.0, 380V 50HZ																		IE2	
TYPICAL PERFORMANCE																		(380 V)	
OUTPUT		FULL LOAD RPM	FRAME NO.	EFFICIENCY			POWER FACTOR			CURRENT		TORQUE				ROTOR GD ² kg-m ²			
kW	hp			FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (A)	LOCKED ROTOR %FLT	FULL LOAD kg-m	LOCKED ROTOR %FLT	PULL UP %FLT	BREAK DOWN %FLT				
0.55	0.75	1430	80M	78.1	78.0	75.3	74.0	64.0	49.5	1.45	640	0.381	260	230	290	0.010			
		930	80M	74.0	72.8	68.4	65.5	56.0	43.0	1.72	470	0.585	255	245	255	0.013			
0.75	1	2865	80M	77.4	75.8	72.6	84.5	77.5	66.0	1.74	630	0.253	225	200	280	0.005			
		1430	80M	79.6	79.5	76.3	74.5	65.0	51.0	1.92	705	0.508	330	290	340	0.011			
		935	90S	75.9	75.8	73.5	73.0	63.5	50.5	2.06	480	0.776	170	170	220	0.018			
1.1	1.5	2880	80M	79.6	80.3	79.1	85.5	78.5	66.5	2.46	775	0.378	255	200	305	0.007			
		1440	90S	81.4	81.6	79.3	77.5	69.0	55.0	2.65	740	0.756	275	220	310	0.017			
		935	90L	78.1	77.6	74.9	72.0	62.5	49.0	2.97	550	1.164	205	195	245	0.025			
1.5	2	2845	90S	81.3	81.5	80.5	90.0	86.0	75.5	3.11	650	0.510	220	170	250	0.010			
		1430	90L	82.8	83.8	82.7	82.5	75.5	62.5	3.34	740	1.015	265	190	280	0.022			
		955	100L	79.8	79.1	77.3	71.5	63.5	50.0	3.99	550	1.520	165	130	230	0.044			
2.2	3	2840	90L	83.2	84.0	83.0	89.5	85.0	75.5	4.49	750	0.767	265	230	300	0.013			
		1455	100L	84.3	84.6	82.9	79.0	71.0	58.0	5.02	790	1.497	215	175	290	0.041			
		945	112M	81.8	80.8	79.6	75.5	67.5	54.0	5.41	570	2.304	205	175	245	0.071			
3	4	2890	100L	84.6	84.4	83.6	89.0	85.0	76.0	6.05	820	1.005	215	195	280	0.022			
		1445	100L	85.5	85.4	84.3	80.5	73.0	60.0	6.62	795	2.009	210	155	275	0.050			
		965	132S	83.3	81.8	79.2	72.5	63.5	50.0	7.55	585	3.009	195	185	270	0.097			
4	5.5	2880	112M	85.8	86.5	85.5	91.0	88.0	81.0	7.78	890	1.386	235	230	335	0.042			
		1455	112M	86.6	87.0	86.1	81.0	74.5	62.5	8.66	830	2.744	260	220	290	0.083			
		960	132M	84.6	84.8	84.3	77.5	69.5	56.5	9.27	645	4.159	190	175	275	0.131			
5.5	7.5	2925	132S	87.0	87.0	85.7	85.5	81.5	73.0	11.2	690	1.861	190	145	250	0.057			
		1460	132S	87.7	87.8	86.3	81.5	75.0	63.0	11.7	775	3.729	255	190	320	0.113			
		965	132M	86.0	85.3	82.9	72.0	63.5	50.0	13.5	690	5.641	210	160	280	0.171			
7.5	10	2905	132S	88.1	88.6	87.6	84.5	80.5	71.5	15.3	660	2.499	190	165	250	0.066			
		1465	132M	88.7	89.0	88.8	85.5	80.5	70.0	15.0	760	4.955	230	165	280	0.133			
		960	160M	87.2	88.0	87.0	81.5	76.5	66.0	16.0	600	7.561	210	185	225	0.363			
11	15	2940	160M	89.4	89.4	88.6	91.5	89.0	83.0	20.4	830	3.703	220	155	270	0.154			
		1465	160M	89.8	90.1	89.5	88.5	85.0	77.5	21.0	730	7.432	205	155	255	0.297			
		965	160L	88.7	89.2	88.6	81.5	76.0	65.0	23.1	685	11.28	245	230	270	0.558			
15	20	2925	160M	90.3	90.3	90.2	93.0	91.5	88.0	27.1	765	4.963	230	155	240	0.192			
		1470	160L	90.6	91.3	90.5	86.5	82.5	73.5	29.1	785	9.876	235	185	280	0.396			
		975	180L	89.7	89.7	88.4	80.0	74.0	62.5	31.8	760	14.89	265	185	315	1.342			
18.5	25	2945	160L	90.9	91.7	90.5	92.5	90.5	86.0	33.4	880	6.162	265	175	280	0.237			
		1470	180M	91.2	92.0	91.0	85.0	82.5	75.5	36.3	630	12.34	180	175	275	0.654			
		975	200L	90.4	91.1	90.2	82.5	79.0	70.5	37.7	610	18.61	200	185	220	1.604			
22	30	2945	180M	91.3	91.5	91.0	90.0	88.0	82.5	40.7	800	7.394	220	175	280	0.283			
		1475	180L	91.6	91.8	91.5	84.0	80.5	72.5	43.4	710	14.76	195	150	230	0.712			
		975	200L	90.9	91.1	90.9	82.0	78.5	69.5	44.8	680	22.33	225	180	220	1.912			
30	40	2955	200L	92.0	92.0	90.8	90.0	89.0	85.0	55.0	775	9.825	185	140	275	0.521			
		1475	200L	92.3	92.3	91.7	87.5	84.5	77.5	56.4	790	19.68	205	185	245	1.220			
		975	225M	91.7	92.0	91.5	86.0	83.5	76.0	57.8	615	29.78	175	155	210	2.442			
37	50	2950	200L	92.5	92.0	91.3	90.5	89.5	85.5	67.2	845	12.30	205	140	240	0.663			
		1480	225S	92.7	92.8	92.1	87.0	84.0	77.0	69.7	710	24.52	190	160	245	1.649			
		980	250M	92.2	92.4	91.9	85.0	81.0	72.5	71.7	640	37.03	180	180	220	3.373			
APPD.	Chiwen CHEN	6-Aug-12	TECO Electric & Machinery Co., Ltd. Wuxi, China										DWG NO.						
CHKD.	Chiwen CHEN	6-Aug-12											32057R9247						
DWN.	Y.T.TA	12-Jul-12											Rev. 00						

ISSUED 17-Apr-12			PERFORMANCE DATA										MODEL AEUV1H / AEUV1H			
REVISED			IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS LOW VOLTAGE SQUIRREL CAGE										PAGE 4 of 65			
OUTPUT		FULL LOAD RPM	FRAME NO.	EFFICIENCY			POWER FACTOR			CURRENT		TORQUE				ROTOR GD ² kg-m ²
kW	hp			FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (A)	LOCKED ROTOR %FLT	FULL LOAD kg-m	LOCKED ROTOR %FLT	PULL UP %FLT	BREAK DOWN %FLT	
45	60	2965	225M	92.9	92.3	90.9	90.5	87.5	81.0	81.3	875	14.69	160	155	320	1.074
		1475	225M	93.1	93.3	92.9	86.5	83.5	76.5	84.9	690	29.53	190	160	270	1.731
		985	280S	92.7	92.6	92.0	84.0	81.0	73.5	87.8	650	44.52	140	115	230	6.400
55	75	2970	250M	93.2	93.4	93.1	91.0	90.0	85.5	98.5	735	18.33	135	115	295	1.211
		1485	250M	93.5	93.6	93.1	87.0	85.0	79.0	103	780	36.66	265	230	250	3.621
		985	280M	93.1	93.0	92.5	83.5	81.5	74.0	107	650	55.27	145	120	230	7.600
75	100	2965	280S	93.8	93.8	93.2	90.5	89.5	85.5	134	700	24.65	160	135	260	2.000
		1480	280S	94.0	94.0	93.5	87.5	86.0	78.5	139	690	49.25	170	145	260	5.200
		985	315S	93.7	93.6	93.1	83.5	81.0	73.0	146	650	0.00	150	125	220	12.40
90	125	2965	280M	94.1	94.0	93.5	90.5	89.5	86.0	161	700	0.00	165	140	260	2.400
		1480	280M	94.2	94.2	93.6	87.5	86.0	78.0	166	690	59.26	180	155	260	6.000
		985	315M	94.0	94.0	93.4	84.0	81.5	74.0	173	650	0.00	155	130	220	14.00
110	150	2965	315S	94.3	94.3	93.7	89.5	88.5	85.0	198	700	0.00	150	125	250	4.400
		1480	315S	94.5	94.5	93.8	88.5	87.0	82.0	200	690	72.43	160	135	240	8.800
		985	315L	94.3	94.2	93.6	85.0	82.0	74.5	209	650	108.8	150	125	220	18.80
132	175	2965	315M	94.6	94.6	93.8	90.0	89.0	86.0	236	690	0.00	145	120	240	4.800
		1480	315M	94.7	94.7	94.0	88.5	87.5	82.5	239	675	86.80	160	135	240	10.00
		985	315L	94.6	94.5	93.8	85.0	83.0	75.5	249	650	130.6	150	125	220	20.40
160	215	2970	315L	94.8	94.8	94.0	89.0	88.0	84.5	288	690	0.00	150	125	240	5.200
		1485	315L	94.9	94.9	94.1	88.5	87.0	82.5	289	670	105.2	140	115	230	11.60
		985	315L	94.8	94.8	94.0	84.5	82.0	74.0	304	650	158.3	145	120	230	23.20
		985	355M	94.8	94.8	94.0	84.5	82.0	74.0	303	650	158.3	145	120	230	31.60
200	270	2970	315L	95.0	95.0	94.1	90.5	90.0	88.0	353	690	0.00	150	125	240	6.400
		1485	315L	95.1	95.0	94.2	88.5	87.0	83.0	361	670	131.5	150	125	230	14.40
		985	315D	95.0	94.9	94.1	85.0	83.0	76.0	376	650	197.9	155	130	230	38.80
		985	355M	95.0	94.9	94.1	85.0	83.0	76.0	376	650	197.9	155	130	230	40.80
250	335	2975	315D	95.0	95.0	94.2	91.0	90.5	88.5	439	690	0.00	140	115	240	10.00
		2975	355M	95.0	95.0	94.2	91.0	90.5	88.5	439	690	81.74	140	115	240	10.80
		1485	315D	95.1	95.1	94.3	89.0	88.0	84.0	449	680	164.0	140	115	230	25.20
		1485	355M	95.1	95.1	94.3	89.0	88.0	84.0	449	680	164.0	140	115	230	27.20
		985	315D	95.0	95.0	94.2	85.0	83.5	77.0	470	650	247.3	150	125	230	46.40
		985	355L	95.0	95.0	94.2	85.0	83.5	77.0	470	650	247.3	150	125	230	46.00
315	420	2975	315D	95.0	95.0	94.2	91.5	91.0	89.0	551	700	103.2	140	115	240	12.00
		2975	355L	95.0	95.0	94.2	91.5	91.0	89.0	551	700	103.2	140	115	240	14.00
		1485	315D	95.1	95.1	94.3	89.0	88.0	84.5	566	675	206.7	140	115	230	31.20
		1485	355L	95.1	95.1	94.3	89.0	88.0	84.5	565	675	206.7	140	115	230	34.40

- NOTE : 1. The above are typical values based on test according to GB/T 1032 method B, IEC 60034-2-1:2007.
2. Tolerance according to GB 755, IEC 60034-1.
3. Breakdown & Locked rotor torques are show as average expected voltages.
4. Efficiency, power factor, speed and torque are the same for other voltages.
Current values vary inversely with voltage.
5. F#315D 2P 250kW, 2P 315kW, 4P 250kW, 4P 315kW, 6P 200kW, 6P 250kW :
Only Suitable for IM B3 .
6. Data subject to change without notice.

APPD.	Chiwen CHEN F.YANG	6-Aug-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO. 32057R9247 Rev. 00	2/2
CHKD.	Chiwen CHEN F.YANG	6-Aug-12			
DWN.	Y.T.TA SHAO FU	12-Jul-12			

ISSUED	OUTLINE DIMENSIONS SHEET	MODEL
25-Sep-12		AEEV1H
REVISED	IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS	PAGE
	B3 (IM 1001) FRAME NOS. 80M ~ 112M	5 of 65

Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.

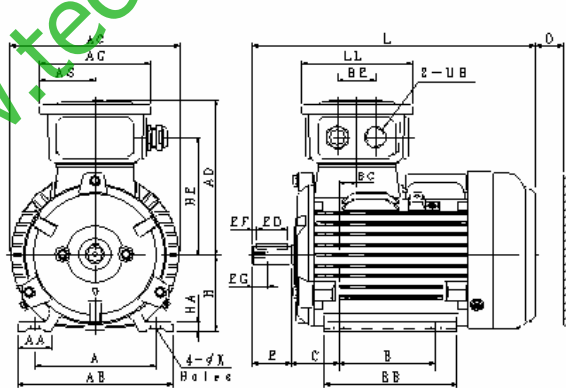


FIG. 1

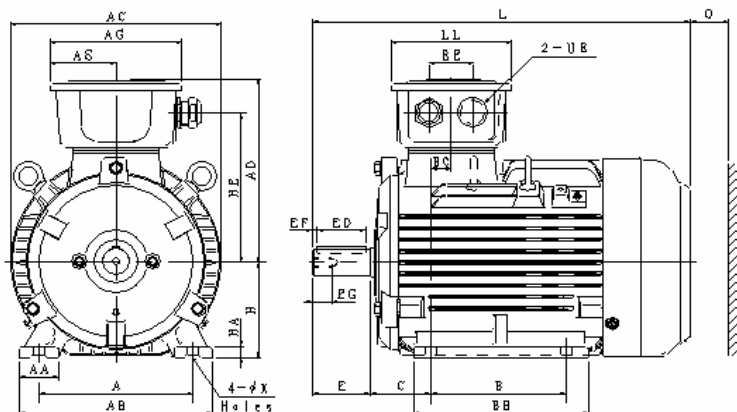


FIG. 2

Dimension in mm

Output (kW)				FRAME	FIG.	A	AA	AB	HA	H	HE	AD	AS	AG	AC	LL	BE	BC	C	B	BB
2P	4P	6P	---	SIZE	NO.																
0.75	0.55	0.37	---	80M	1	125	34.5	161	10	80	123.5	163	67.5	125	176.5	115	40	18.5	50	100	137
1.1	0.75	0.55	---	90S		140	40	180	10	90	133.5	173	67.5	125	196.5	115	40	36	56	100	161
2.2	1.5	1.1	---	90L		140	40	180	10	90	133.5	173	67.5	125	196.5	115	40	36	56	125	186
3	2.2	1.5	---	100L	2	160	40	200	12	100	157	193	78.5	147	218.9	125	50	21	63	140	181
---	3	---	---	112M		190	45	235	13	112	164.5	200.5	78.5	147	234.9	125	50	28	70	140	186

FRAME SIZE	L	UB	O	K	SHAFT EXTENSION									BEARING		APPROX.
					D	E	EF	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE	WEIGHT
															DRIVE END	
80M	293	M20x1.5	40	10	19	40	4	32	16	6	15.5	21.5	M6	6204ZZ	6204ZZ	19.5
90S	344.5	M20x1.5	40	10	24	50	5	40	19	8	20	27	M8	6205ZZ	6205ZZ	24.5
90L	369.5	M20x1.5	40	10	24	50	5	40	19	8	20	27	M8	6205ZZ	6205ZZ	28.5
100L	392	M25X1.5	50	12	28	60	5	50	22	8	24	31	M10	6206ZZ	6206ZZ	39.5
112M	412.5	M25X1.5	50	12	28	60	5	50	22	8	24	31	M10	6306ZZ	6306ZZ	52.0

Note : 1. Tolerance of shaft end diameter D : Among $\phi 19 \sim \phi 28 : j6$.

2. Tolerance of shaft center high H : +0, -0.5.

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CHKD.	SHITOU	25-Sep-12		32057R9248
DWN.	TDY	25-Sep-12		Rev. 00

ISSUED 25-Sep-12	OUTLINE DIMENSIONS SHEET IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS B3 (IM 1001) FRAME NOS. 132S ~ 132M	MODEL AEEV1H
REVISED		PAGE 6 of 65

Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.

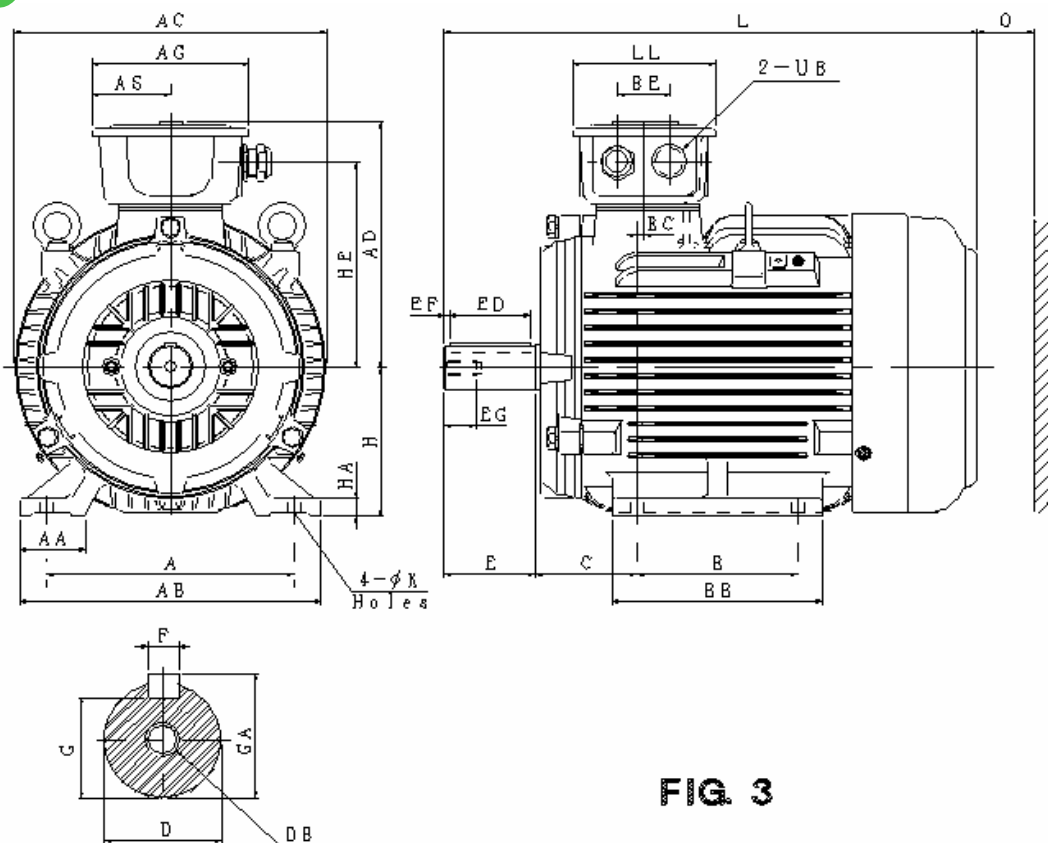


FIG. 3

Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	A	AA	AB	HA	H	HE	AD	AS	AG	AC	L	LL	BE	BC	C	B	BB	O
2P	4P	6P	---																				
5.5	5.5	3	---	132S	3	216	57	263	16	132	182	218	78.5	147	272.9	466	125	50	6	89	140	184	50
7.5	---	---	---																				
---	7.5	4	---	132M		216	57	263	16	132	182	218	78.5	147	272.9	504	125	50	6	89	178	222	50
---	---	5.5	---																				

FRAME SIZE	UB	K	SHAFT EXTENSION									BEARING		APPROX
			D	E	EF	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE	WEIGHT
													DRIVE END	
132S	M25x1.5	12	38	80	5	70	28	10	33	41	M12	6308ZZ	6306ZZ	67.0
132M	M25x1.5	12	38	80	5	70	28	10	33	41	M12	6308ZZ	6306ZZ	77.0

Note : 1. Tolerance of shaft end diameter D : $\phi 38:k6$.

2. Tolerance of shaft center high H : +0, -0.5.

APPD.	H.C.YAN	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	SHITOU	25-Sep-12		32057R9248
DWN.	TDY	25-Sep-12		Rev. 00

ISSUED	OUTLINE DIMENSIONS SHEET	MODEL
25-Sep-12		AEEV1H
REVISED	IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS	PAGE
	B3 (IM 1001) FRAME NOS. 160M ~ 160L	7 of 65

Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.

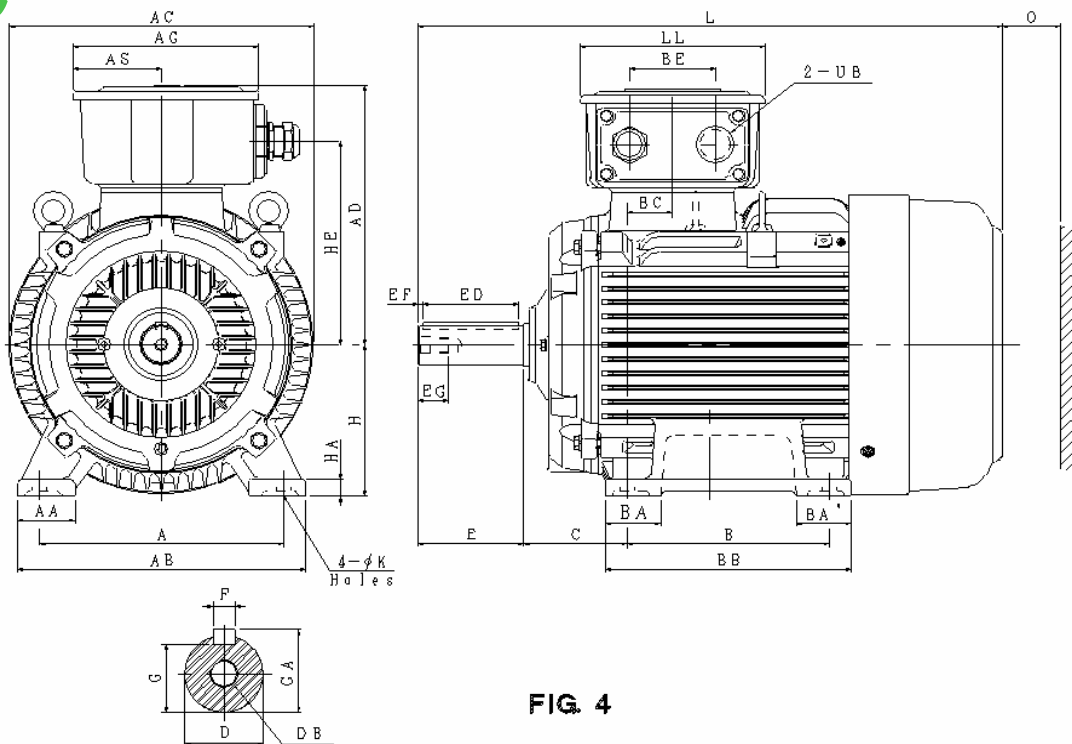


FIG. 4

Dimension in mm

Output (kW)				FRAME	FIG.	A	AA	AB	AC	AD	AG	AS	B	O	BA	BA'	BB	BE	BC	C	H	HA	HE
2P	4P	6P	---	SIZE	NO.																		
11	11	7.5	---	160M	4	254	60	300	317	273	193	91.5	210	60	57.5	57.5	256	89	47	108	160	18	215
15	---	---	---	160L		254	60	300	317	273	193	91.5	254	60	57.5	101.5	300	89	47	108	160	18	215

FRAME SIZE	K	L	LL	UB	SHAFT EXTENSION									BEARING		APPROX.	
					D	E	EF	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE	WEIGHT	
															DRIVE END		
160M	14.5	608	193	M32x1.5	42	110	5	100	36	12	37	45	M16	6309ZZ	6307ZZ	119.0	
160L	14.5	652	193	M32x1.5	42	110	5	100	36	12	37	45	M16	6309ZZ	6307ZZ	138.0	

- Note :**
1. Tolerance of shaft end diameter D : $\phi 42 : k6$.
 2. Tolerance of shaft center high H : $+0, -0.5$.

APPD.	H.C.YAN	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	SHITOU	25-Sep-12		32057R9248
DWN.	TDY	25-Sep-12		Rev. 00

ISSUED	OUTLINE DIMENSIONS SHEET	MODEL
25-Sep-12		AEEV1H
REVISED	IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS	PAGE
	B3 (IM 1001) FRAME NOS. 180M ~ 250M	8 of 65

Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.

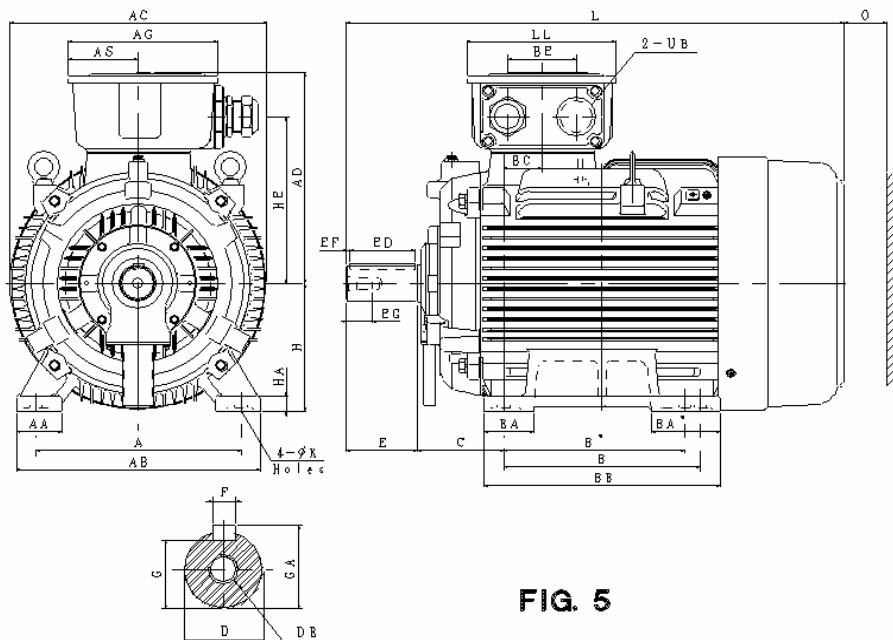


FIG. 5

Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	A	AA	AB	AC	AD	AG	AS	B	B'	O	BA	BA'	BB	BE	BC	C	H	HA
2P	4P	6P	---																				
22	18.5	---	---	180M	5	279	65	330	354	299	193	91.5	241	---	70	62	62	292	89	39	121	180	20
---	22	15	---	180L		279	65	330	354	299	193	91.5	279	241	70	62	100	330	89	39	121	180	20
30 37	30	18.5 22	---	200L		318	70	378	398	332	231	110.5	305	---	80	76	76	365	106	60	133	200	24
---	37	---	---	225SC		356	75	431	449	358	231	110.5	286	---	90	90	90	350	106	37.5	149	225	28
45	---	---	---	225MA		356	75	431	449	358	231	110.5	311	286	90	90	115	375	106	37.5	149	225	28
---	45	30	---	225MC		356	75	431	449	358	231	110.5	311	286	90	90	115	375	106	37.5	149	225	28
55	---	---	---	250MA		406	85	480	499	400	255	122.5	349	---	105	105	105	425	119	57.5	168	250	30
---	55	37	---	250MC		406	85	480	499	400	255	122.5	349	---	105	105	105	425	119	57.5	168	250	30

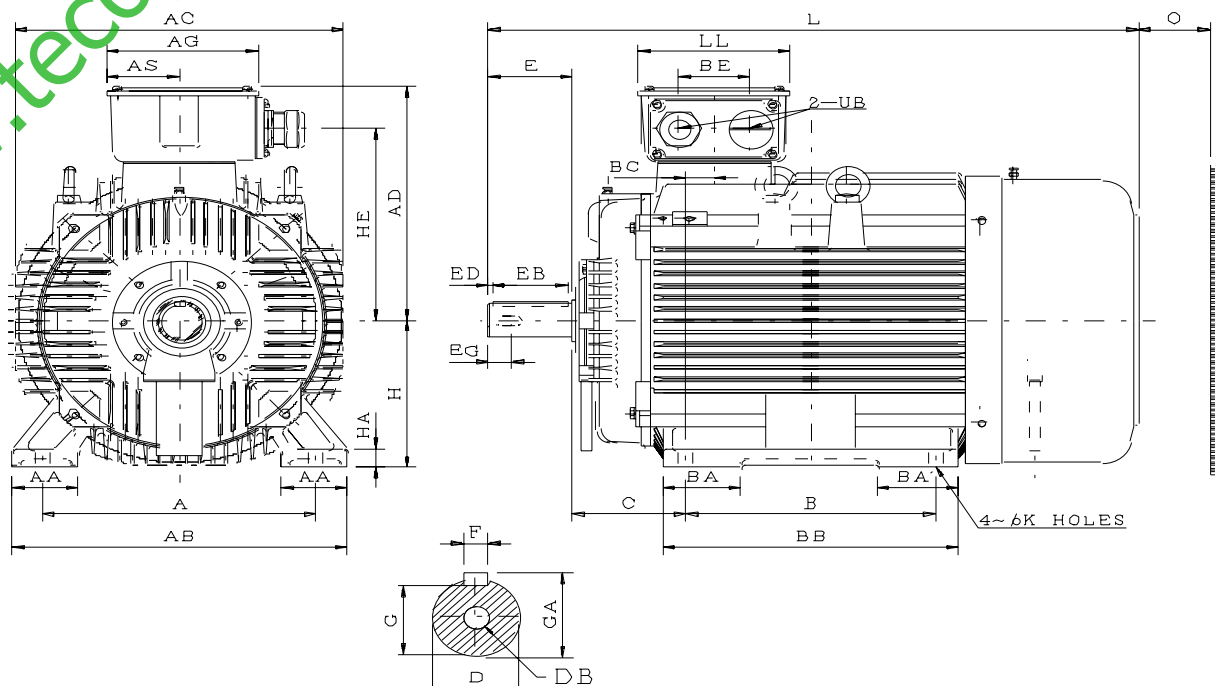
FRAME SIZE	HE	K	L	LL	UB	SHAFT EXTENSION									BEARING		APPROX.	
						D	E	EF	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE	WEIGHT	
																DRIVE END		
180M	241	14.5	672	193	M32x1.5	48	110	5	100	36	14	42.5	51.5	M16	(6311C3)	(6310C3)	179.0	
180L	241	14.5	710	193	M32x1.5	48	110	5	100	36	14	42.5	51.5	M16	6311	6310	200.0	
200L	262	18.5	770	231	M50x1.5	55	110	5	100	42	16	49	59	M20	(6312C3) 6312	(6212C3) 6212	270.0	
225SC	288	18.5	816	231	M50x1.5	60	140	7.5	125	42	18	53	64	M20	(6312C3) 6313	(6212C3) 6213	319.0	
225MA	288	18.5	811	231	M50x1.5	55	110	5	100	42	16	49	59	M20			319.0	
225MC	288	18.5	841	231	M50x1.5	60	140	7.5	125	42	18	53	64	M20			332.0	
250MA	322	24	921	255	M63x1.5	60	140	7.5	125	42	18	53	64	M20	6313C3	6313C3	405.0	
250MC	322	24	921	255	M63x1.5	65	140	7.5	125	42	18	58	69	M20	6315	6313	452.0	

- Note :**
1. Tolerance of shaft end diameter D : a) $\phi 48 : k6$; b) $\phi 55 \sim \phi 65 : m6$.
 2. Tolerance of shaft center high H : $+0, -0.5$.
 3. Bearing No. In () is for 2P.

APPD.	H.C.YAN	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
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ISSUED 25-Sep-12	OUTLINE DIMENSIONS SHEET E2 EFFICIENCY 3-PHASE INDUCTION MOTORS B3 (IM 1001) FRAME NOS. 280S ~ 355L	MODEL AEEV1H
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Totally Enclosed Fan - Cooled Type, Squirrel - Cage Rotor.



Dimension in mm

Output (kW)			FRAME	A	AA	AB	AC	AD	AG	AS	B	B'	BA	BA'	BB	BE	BC	C	H	HA	HE
2P	4P	6P	SIZE																		
75	---	---	280SA	457	110	560	550	446	255	122.5	368	---	110	110	445	119	48	190	280	35	367
---	75	45	280SB	457	110	560	550	446	255	122.5	368	---	110	110	445	119	48	190	280	35	367
90	---	---	280MA	457	110	560	550	446	255	122.5	419	---	130	137	495	119	48	190	280	35	367
---	90	55	280MB	457	110	560	550	446	255	122.5	419	---	130	137	495	119	48	190	280	35	367

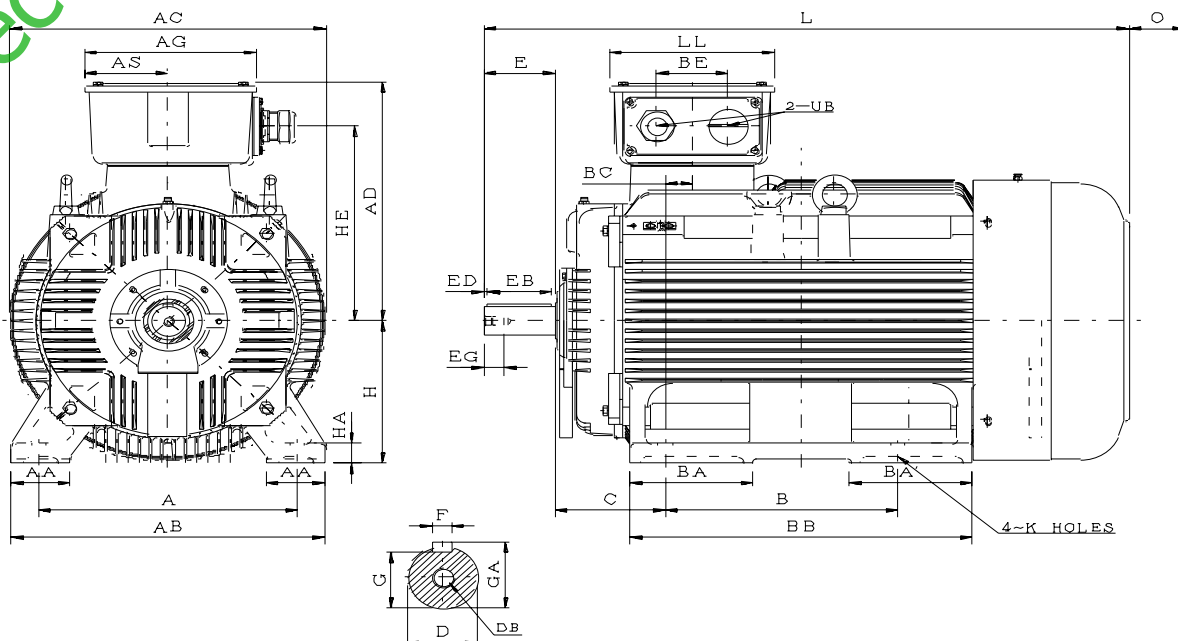
FRAME SIZE	K	L	LL	O	UB	SHAFT EXTENSION									BEARING		APPROX.
						D	E	EB	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE	WEIGHT
																DRIVE END	
280SA	24	1037.5	255	---	M63X1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
280SB	24	1037.5	255	---	M63X1.5	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6316C3	
280MA	24	1087.5	255	---	M63X1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
280MB	24	1087.5	255	---	M63X1.5	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6316C3	

- Note :**
1. Tolerance of Shaft End Diameter D : m6
 2. Tolerance of Shaft Center Height H : +0, -1
 3. Tolerance of Key Width F : h9

APPD.	Ben Yang	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	J.LIU	25-Sep-12		3W049U305
DWN.	S.CAO	25-Sep-12		Rev. 00 1/5

ISSUED 25-Sep-12	OUTLINE DIMENSIONS SHEET IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS B3 (IM 1001) FRAME NOS. 280S ~ 355L	MODEL AEEV1H
REVISED		PAGE 10 of 65

Totally Enclosed Fan - Cooled Type, Squirrel - Cage Rotor.



Dimension in mm

Output (kW)			FRAME SIZE	A	AA	AB	AC	AD	AG	AS	B	B'	BA	BA'	BB	BE	BC	C	H	HA	HE
2P	4P	6P																			
110	---	---	315SA	508	115	615	620	528	336	163	406	---	210	210	620	140	53	216	315	45	430
---	110	75	315SB	508	115	615	620	528	336	163	406	---	210	210	620	140	53	216	315	45	430
132 (160)	---	---	315MA	508	115	615	620	528	336	163	457	---	240	240	670	140	53	216	315	45	430
---	132 (160)	90 (110)	315MB	508	115	615	620	528	336	163	457	---	240	240	670	140	53	216	315	45	430

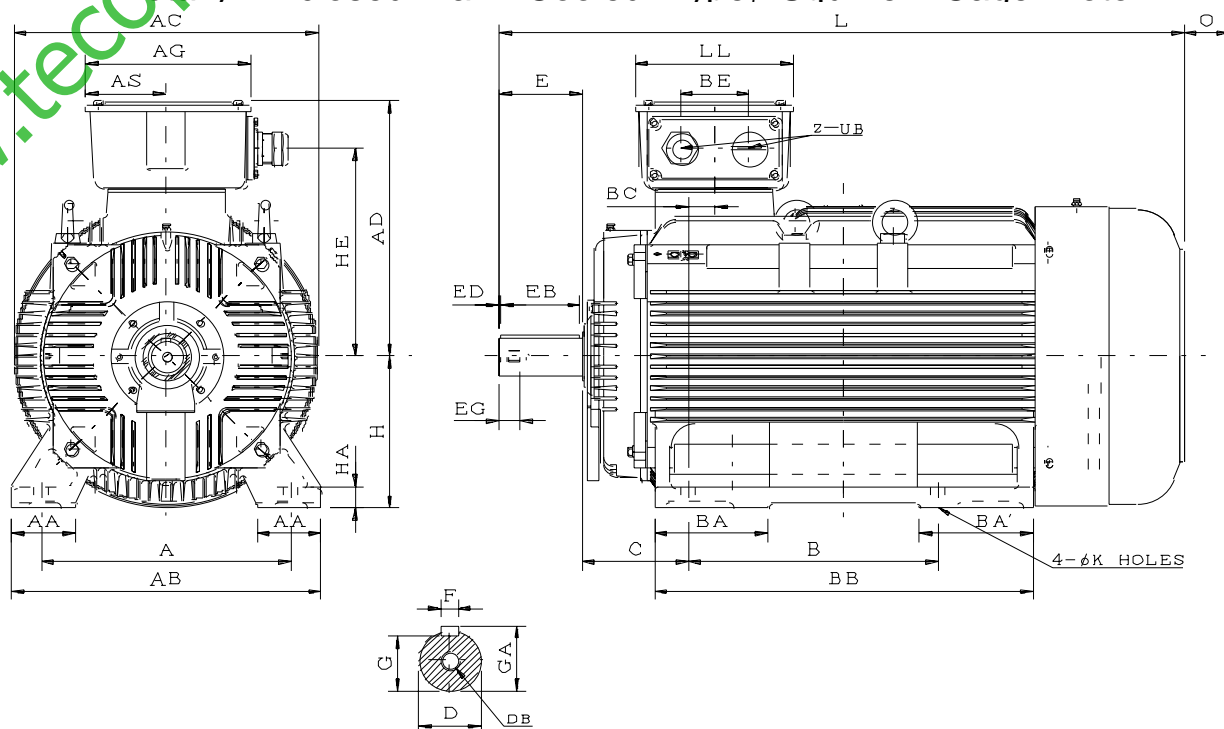
FRAME SIZE	K	L	LL	O	UB	SHAFT EXTENSION										BEARING		APPROX.
						D	E	EB	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE	WEIGHT	
																DRIVE END		kgs
315SA	28	1216	322	---	M63X1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3		
315SB	28	1246	322	---	M63X1.5	80	170	160	5	40	22	71	85	M20	6320C3	6316C3		
315MA	28	1266	322	---	M63X1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3		
315MB	28	1296	322	---	M63X1.5	80	170	160	5	40	22	71	85	M20	6320C3	6316C3		

- Note :**
1. Tolerance of Shaft End Diameter D : m6
 2. Tolerance of Shaft Center Height H : +0, -1
 3. Tolerance of Key Width F : h9
 4. Output In the Brackets for Optional Matching

APPD.	Ben Yang	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	J.LIU	25-Sep-12		3W049U305
DWN.	S.CAO	25-Sep-12		Rev. 00 2/5

ISSUED 25-Sep-12	OUTLINE DIMENSIONS SHEET IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS B3 (IM 1001) FRAME NOS. 280S ~ 355L	MODEL AEEV1H
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Totally Enclosed Fan - Cooled Type, Squirrel - Cage Rotor.



Dimension in mm

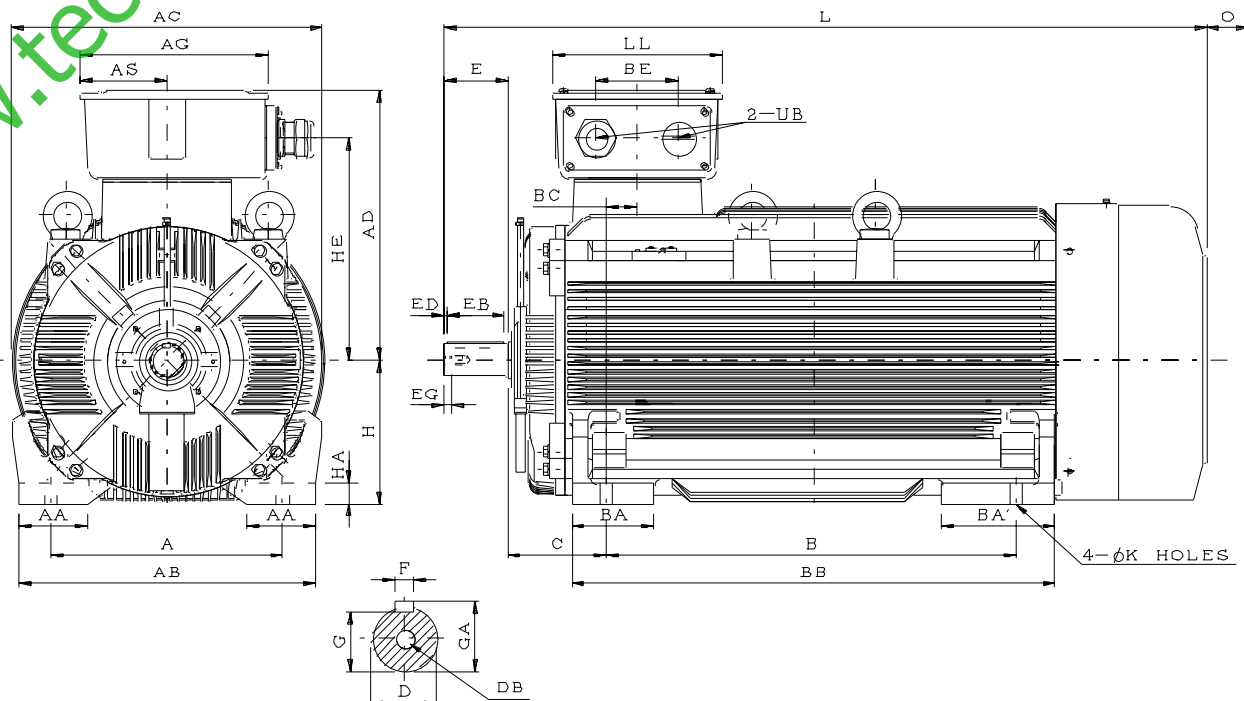
Output (kW)			FRAME SIZE	A	AA	AB	AC	AD	AG	AS	B	B'	BA	BA'	BB	BE	BC	C	H	HA	HE			
2P	4P	6P		160 200	---	---	315LA	508	130	630	620	527.5	336	163	508	---	230	230	770	140	53	216	315	45
---	160 200	100 132 (160)	315LB	508	130	630	620	527.5	336	163	508	---	230	230	770	140	53	216	315	45	430			
FRAME SIZE	K	L	LL	O	UB	SHAFT EXTENSION										BEARING		APPROX.						
						D	E	EB	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	WEIGHT kgs							
315LA	28	1366	322	---	M63X1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3								
315LB	28	1396	322	---	M63X1.5	80	170	160	5	40	22	71	85	M20	6320C3	6316C3								

- Note :**
1. Tolerance of Shaft End Diameter D : m6
 2. Tolerance of Shaft Center Height H : +0, -1
 3. Tolerance of Key Width F : h9
 4. Output In the Brackets for Optional Matching

APPD.	Ben Yang	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	J.LIU	25-Sep-12		3W049U305
DWN.	S.CAO	25-Sep-12		Rev. 00 3/5

ISSUED 25-Sep-12	OUTLINE DIMENSIONS SHEET IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS B3 (IM 1001) FRAME NOS. 280S ~ 355L	MODEL AEEV1H
REVISED		PAGE 12 of 65

Totally Enclosed Fan - Cooled Type, Squirrel - Cage Rotor.



Dimension in mm

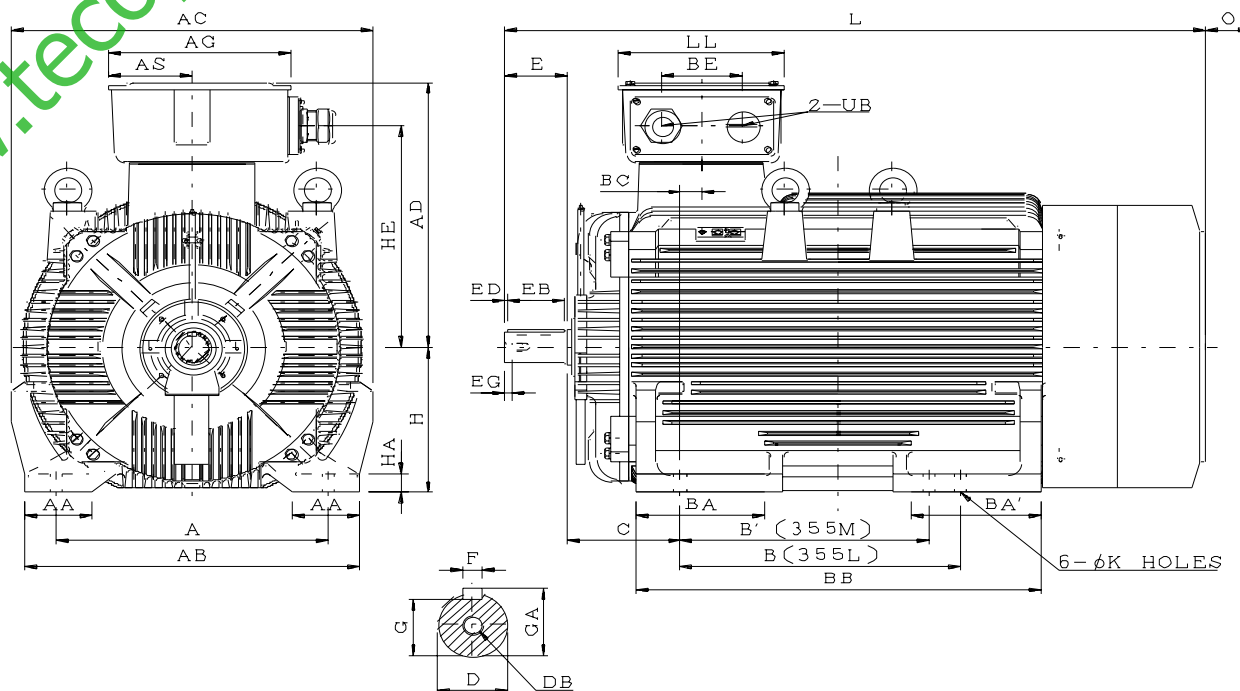
Output (kW)			FRAME SIZE	A	AA	AB	AC	AD	AG	AS	B	B'	BA	BA'	BB	BE	BC	C	H	HA	HE
2P	4P	6P																			
250 315	---	---	315DA	508	150	650	682	590	412	189	900	---	180	250	1060	180	68	216	315	45	485
---	250 315	200 250	315DB	508	150	650	682	590	412	189	900	---	180	250	1060	180	68	216	315	45	485
FRAME SIZE	K	L	LL	O	UB	SHAFT EXTENSION								BEARING		APPROX.					
						D	E	EB	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	WEIGHT kgs				
315DA	28	1674	372	---	M72X2	75	140	125	7.5	40	20	67.5	79.5	M20	6316C3	6316C3					
315DB	28	1704	372	---	M72X2	95	170	160	5	48	25	86	100	M24	6322C3	6322C3					

- Note :**
1. Tolerance of Shaft End Diameter D : m6
 2. Tolerance of Shaft Center Height H : +0, -1
 3. Tolerance of Key Width F : h9

APPD.	Ben Yang	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	J.LIU	25-Sep-12		3W049U305
DWN.	S.CAO	25-Sep-12		Rev. 00 4/5

ISSUED 25-Sep-12	OUTLINE DIMENSIONS SHEET IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS B3 (IM 1001) FRAME NOS. 280S ~ 355L	MODEL AEEV1H
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Totally Enclosed Fan - Cooled Type, Squirrel - Cage Rotor.



Dimension in mm

Output (kW)			FRAME SIZE	A	AA	AB	AC	AD	AG	AS	B	B'	BA	BA'	BB	BE	BC	C	H	HA	HE
2P	4P	6P																			
250	---	---	355MA	610	150	750	810	645	412	189	---	560	330	330	910	180	48	254	355	45	540
---	250	200	355MB	610	150	750	810	645	412	189	---	560	330	330	910	180	48	254	355	45	540
315	---	---	355LA	610	150	750	810	645	412	189	630	---	330	330	910	180	48	254	355	45	540
---	315	250	355LB	610	150	750	810	645	412	189	630	---	330	330	910	180	48	254	355	45	540

FRAME SIZE	K	L	LL	O	UB	SHAFT EXTENSION									BEARING		APPROX. WEIGHT kgs
						D	E	EB	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE	
															DRIVE END		
355MA	28	1575	372	---	M72X2	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6318C3	
355MB	28	1605	372	---	M72X2	95	170	160	5	48	25	86	100	M24	6322C3	6322C3	
355LA	28	1575	372	---	M72X2	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6318C3	
355LB	28	1605	372	---	M72X2	95	170	160	5	48	25	86	100	M24	6322C3	6322C3	

- Note :**
1. Tolerance of Shaft End Diameter D : m6
 2. Tolerance of Shaft Center Height H : +0, -1
 3. Tolerance of Key Width F : h9

APPD.	Ben Yang	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	J.LIU	25-Sep-12		3W049U305
DWN.	S.CAO	25-Sep-12		Rev. 00 5/5

ISSUED	OUTLINE DIMENSIONS SHEET	MODEL
25-Sep-12		AEUV1H
REVISED	IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS	PAGE
	B5 (IM 3001) FRAME NOS. 80M ~ 112M	14 of 65

Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.

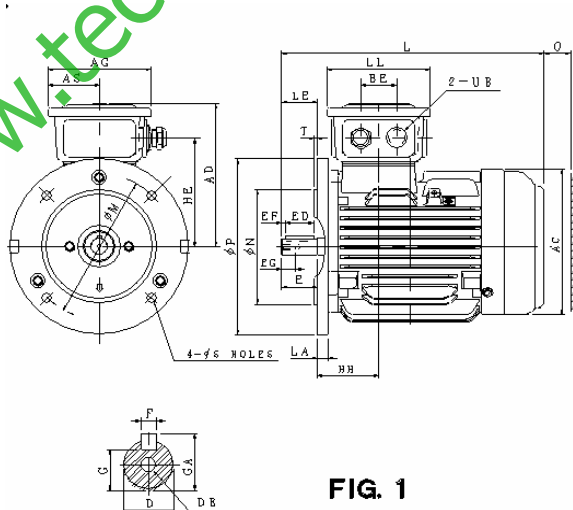


FIG. 1

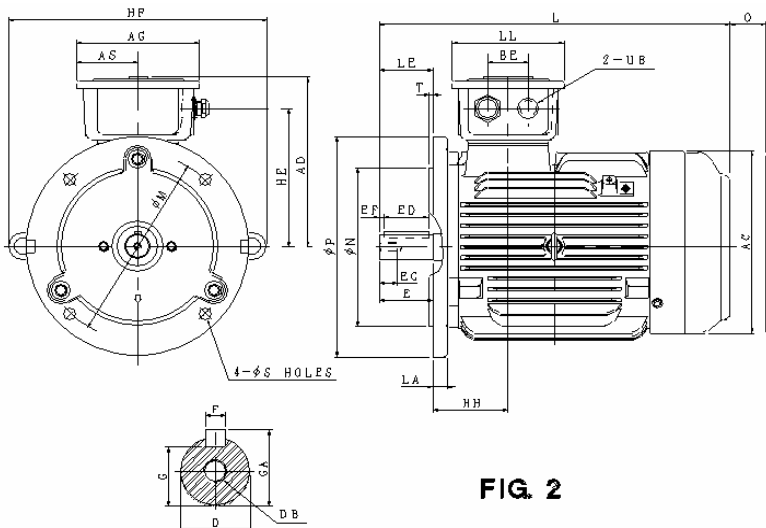


FIG. 2

Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	FLANGE DIMENSION							AD	AC	AS	BE	HH	AG	HF	LL	O
2P	4P	6P	---			P	N	LA	LE	M	S	T									
0.75	0.55	0.37	---	80M	1	200	130	12	40	165	12	3.5	163	176.5	67.5	40	68.5	125	---	115	40
1.1	0.75	0.55	---	90S		200	130	12	50	165	12	3.5	173	196.5	67.5	40	92	125	---	115	40
1.5	1.1	0.75	---	90L		200	130	12	50	165	12	3.5	173	196.5	67.5	40	92	125	---	115	40
2.2	1.5	1.1	---	100L	2	250	180	16	60	215	14.5	4	193	218.9	78.5	50	84	147	288.5	125	50
---	3	---	---	112M		250	180	15	60	215	14.5	4	200.5	234.9	78.5	50	98	147	306.5	125	50

FRAME SIZE	HE	L	UB	SHAFT EXTENSION									BEARING		APPROX.
				D	E	EF	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE	WEIGHT
														DRIVE END	
80M	123.5	293	M20X1.5	19	40	4	32	16	6	15.5	21.5	M6	6204ZZ	6204ZZ	19.5
90S	133.5	344.5	M20X1.5	24	50	5	40	19	8	20	27	M8	6205ZZ	6205ZZ	24.5
90L	133.5	369.5	M20X1.5	24	50	5	40	19	8	20	27	M8	6205ZZ	6205ZZ	28.5
100L	157	392	M25X1.5	28	60	5	50	22	8	24	31	M10	6206ZZ	6206ZZ	39.5
112M	164.5	412.5	M25X1.5	28	60	5	50	22	8	24	31	M10	6306ZZ	6306ZZ	52.0

Note : 1. Tolerance of shaft end diameter D : Under $\phi 19 \sim \phi 28$: j6 :

2. Tolerance of N : j6.

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CHKD.	SHITOU	25-Sep-12		32057R9249
DWN.	TDY	25-Sep-12		Rev. 00

ISSUED	OUTLINE DIMENSIONS SHEET	MODEL
25-Sep-12		AEUV1H
REVISED	IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS	PAGE
	B5 (IM 3001) FRAME NOS. 132S ~ 132M	15 of 65

Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.

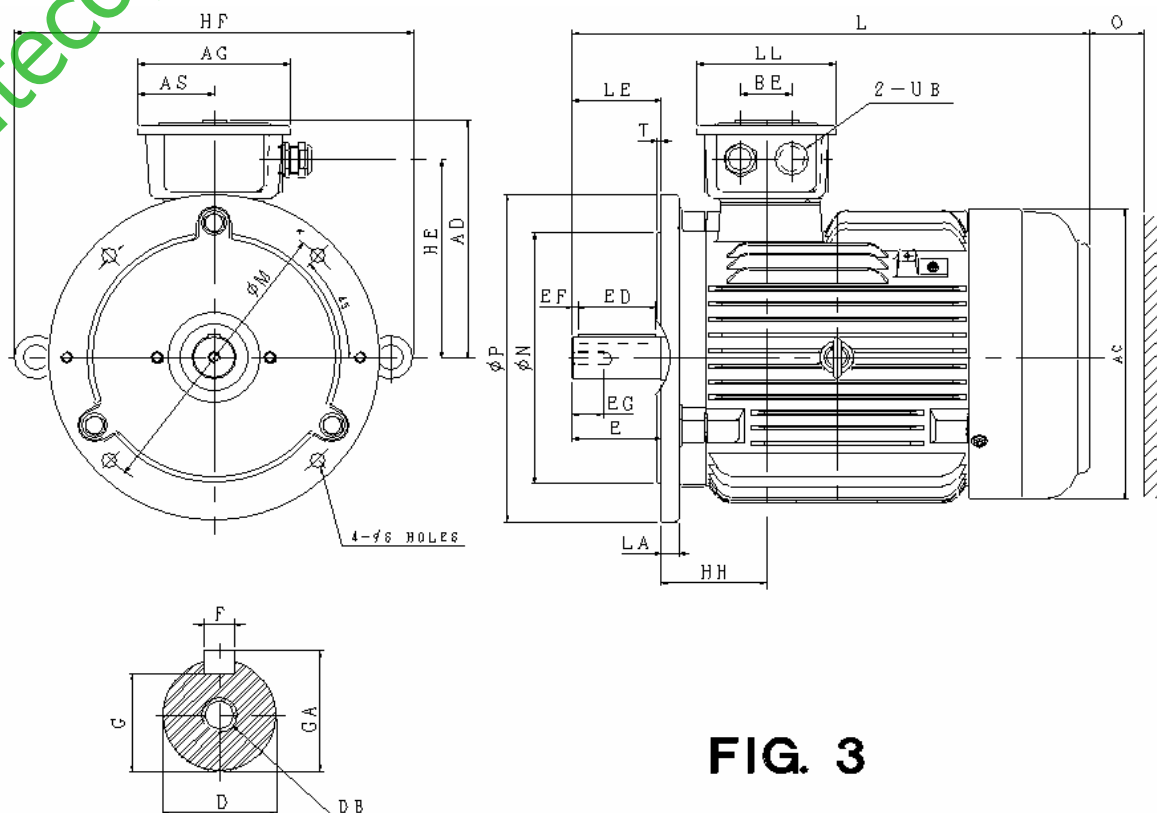


FIG. 3

Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	FLANGE DIMENSION							AD	AC	AS	BE	HH	HE	AG	HF	L	LL	O
2P	4P	6P	---			P	N	LA	LE	M	S	T											
5.5	5.5	3	---	132S	3	300	230	16	80	265	14.5	4	218	258	78.5	50	95	182	147	360	466	125	50
7.5	---	---	---																				
---	7.5	4	---	132M		300	230	16	80	265	14.5	4	218	258	78.5	50	95	182	147	360	504	125	50
---	---	5.5	---																				

FRAME SIZE	UB	SHAFT EXTENSION									BEARING		APPROX. WEIGHT kgs
		D	E	EF	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	
132S	M25X1.5	38	80	5	70	28	10	33	41	M12	6308ZZ	6306ZZ	67.0
132M	M25X1.5	38	80	5	70	28	10	33	41	M12	6308ZZ	6306ZZ	77.0

Note : 1. Tolerance of shaft end diameter D : $\phi 38:k6$.
2. Tolerance of N : j6.

APPD.	H.C.YAN	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	SHITOU	25-Sep-12		32057R9249
DWN.	TDY	25-Sep-12		Rev. 00

ISSUED 25-Sep-12	OUTLINE DIMENSIONS SHEET IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS B5 (IM 3001) FRAME NOS. 160M ~ 180L	MODEL AEUV1H
REVISED		PAGE 16 of 65

Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.

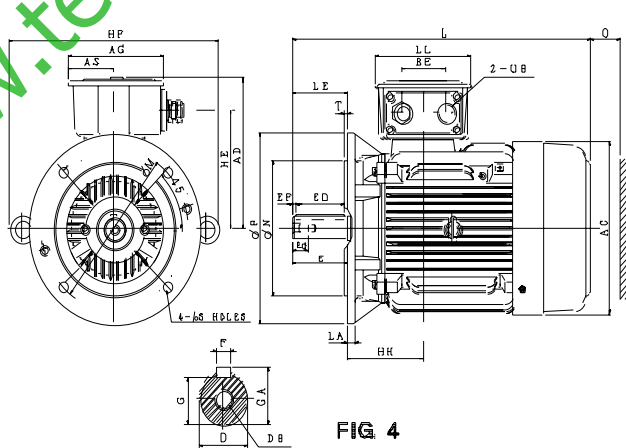


FIG. 4

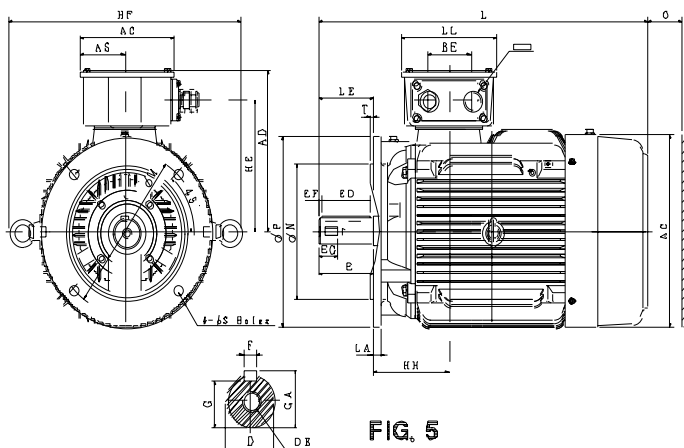


FIG. 5

Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	FLANGE DIMENSION							AD	AC	AS	BE	HH	HE	AG	HF	L	LL	O
2P	4P	6P	---			P	N	LA	LE	M	S	T											
11	11	7.5	---	160M	4	350	250	15	110	300	18.5	5	273	317	91.5	89	155	215	193	427	608	193	60
15	---	---	---	160L		350	250	15	110	300	18.5	5	273	317	91.5	89	155	215	193	427	652	193	60
18.5	15	11	---	180M	5	350	250	15	110	300	18.5	5	299	354	91.5	89	160	241	193	476	672	193	70
---	22	15	---	180L		350	250	15	110	300	18.5	5	299	354	91.5	89	160	241	193	476	710	193	70

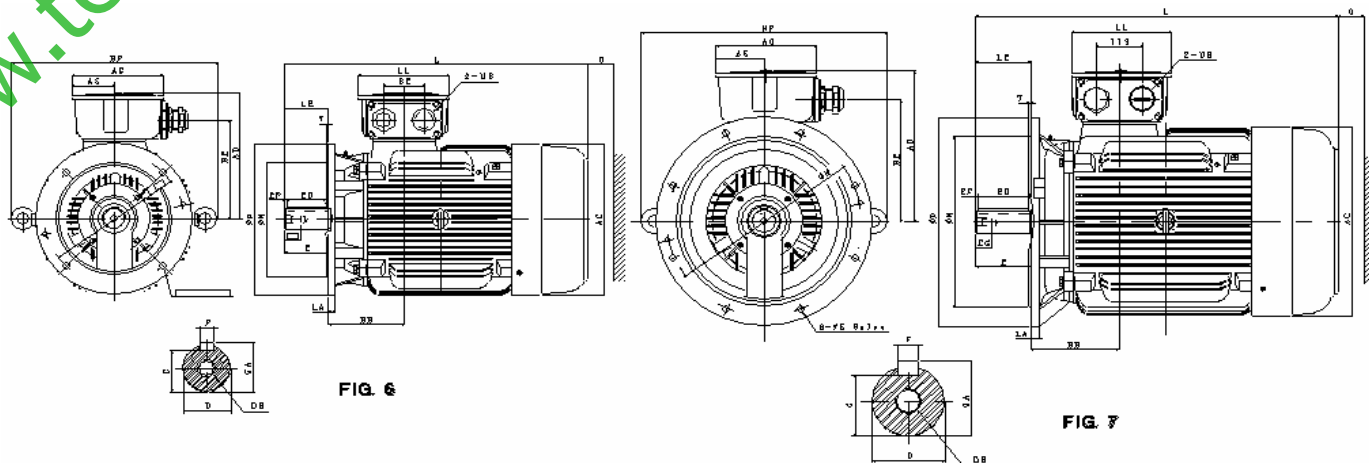
FRAME SIZE	UB	SHAFT EXTENSION									BEARING		APPROX. WEIGHT kgs
		D	E	EF	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	
160M	M32X1.5	42	110	5	100	36	12	37	45	M16	6309ZZ	6307ZZ	119.0
160L	M32X1.5	42	110	5	100	36	12	37	45	M16	6309ZZ	6307ZZ	138.0
180M	M32X1.5	48	110	5	100	36	14	42.5	51.5	M16	(6311C3)	(6310C3)	179.0
180L	M32X1.5	48	110	5	100	36	14	42.5	51.5	M16	6311	6310	200.0

- Note :**
1. Tolerance of shaft end diameter D : $\phi 42 \sim \psi 48 : k6$.
 2. Tolerance of N : j6
 3. Bearing No. In () is for 2P.

APPD.	H.C.YAN	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO. 32057R9249 Rev. 00
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DWN.	TDY	25-Sep-12		

ISSUED 25-Sep-12	OUTLINE DIMENSIONS SHEET IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS B5 (IM 3001) FRAME NOS. 200L ~ 250M	MODEL AEUV1H
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Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.



Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	FLANGE DIMENSION							AD	AC	AS	BE	HH	HE	AG	HF	L
2P	4P	6P	---			P	N	LA	LE	M	S	T									
30 37	30	18.5 22	---	200L	6	400	300	17	110	350	18.5	5	332	398	110.5	106	193	262	231	524	770
---	37	---	---	225SC	7	450	350	20	140	400	18.5	5	358	449	110.5	106	186.5	288	231	574	816
45	---	---	---	225MA		450	350	20	110	400	18.5	5	358	449	110.5	106	186.5	288	231	574	811
---	45	30	---	225MC		450	350	20	140	400	18.5	5	358	449	110.5	106	186.5	288	231	574	841
55	---	---	---	250MA		550	450	22	140	500	18.5	5	400	498	122.5	119	225.5	322	255	642	921
---	55	37	---	250MC		550	450	22	140	500	18.5	5	400	498	122.5	119	225.5	322	255	642	921

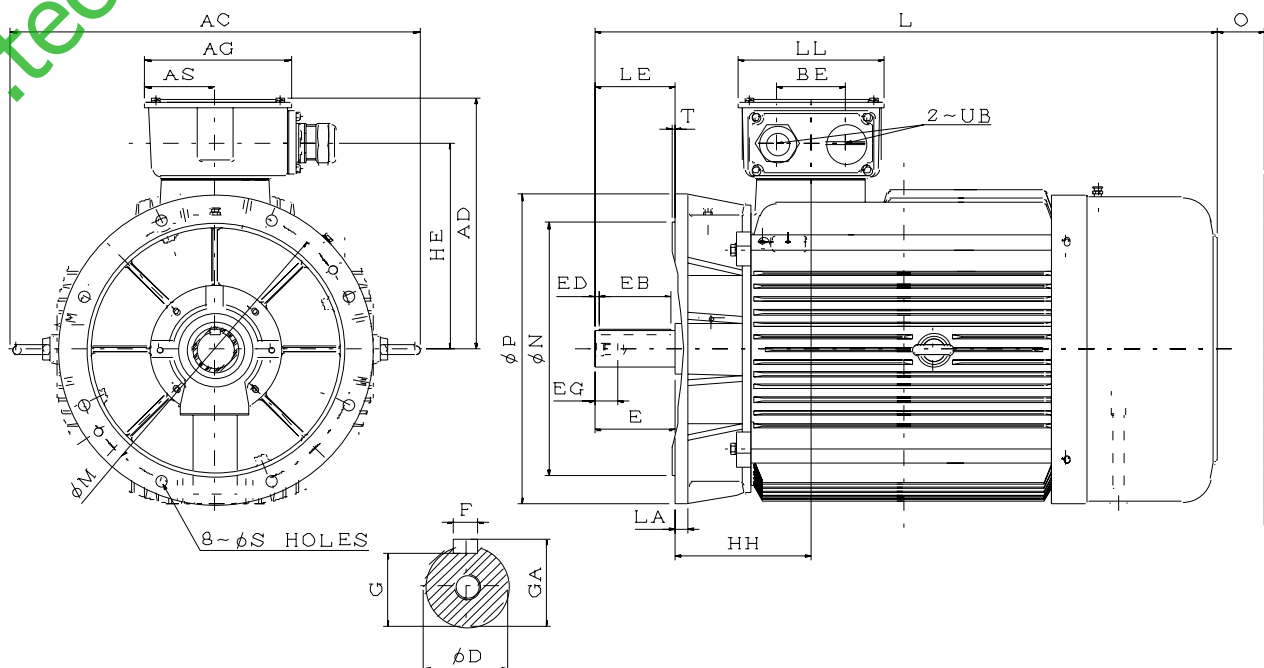
FRAME SIZE	LL	O	UB	SHAFT EXTENSION									BEARING		APPROX
				D	E	EF	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE	WEIGHT
														DRIVE END	
200L	231	80	M50X1.5	55	110	5	100	42	16	49	59	M20	(6312C3) 6312	(6212C3) 6212	270.0
225SC	231	90	M50X1.5	60	140	7.5	125	42	18	53	64	M20	(6312C3) 6313	(6212C3) 6213	319.0
225MA	231	90	M50X1.5	55	110	5	100	42	16	49	59	M20			319.0
225MC	231	90	M50X1.5	60	140	7.5	125	42	18	53	64	M20			332.0
250MA	255	105	M63X1.5	60	140	7.5	125	42	18	53	64	M20	6313C3	6313C3	405.0
250MC	255	105	M63X1.5	65	140	7.5	125	42	18	58	69	M20			6315

- Note :**
1. Tolerance of shaft end diameter D : Under $\phi 55 \sim \phi 65$: m6.
 2. Tolerance of N : j6.
 3. Bearing No. In () is for 2P.

APPD.	H.C.YAN	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	SHITOU	25-Sep-12		32057R9249
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ISSUED 25-Sep-12	OUTLINE DIMENSIONS SHEET IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS B5 (IM 3001) FRAME NOS. 280S ~ 315M	MODEL AEUV1H
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Totally Enclosed Fan - Cooled Type, Squirrel - Cage Rotor.



Dimension in mm

Output (kW)			FRAME SIZE	FLANGE DIMENSION							AD	AC	AS	BE	HH	HE	AG	L	LL	O
2P	4P	6P		P	N	LA	LE	M	S	T										
75	---	---	280SA	550	450	22	140	500	18.5	5	446	717	122.5	119	238	367	255	1037.5	255	-
---	75	45	280SB	550	450	22	140	500	18.5	5	446	717	122.5	119	238	367	255	1037.5	255	-
90	---	---	280MA	550	450	22	140	500	18.5	5	446	717	122.5	119	238	367	255	1087.5	255	-
---	90	55	280MB	550	450	22	140	500	18.5	5	446	717	122.5	119	238	367	255	1087.5	255	-

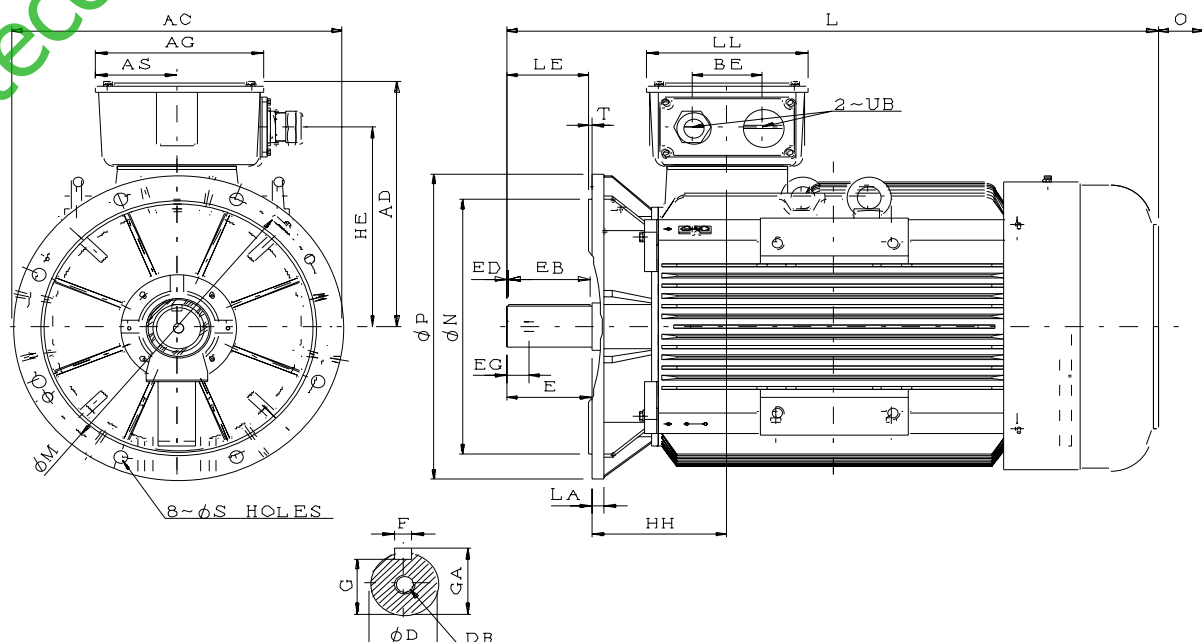
FRAME SIZE	UB	SHAFT EXTENSION									BEARING		APPROX. WEIGHT kgs
		D	E	EB	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	
280SA	M63X1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
280SB	M63X1.5	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6316C3	
280MA	M63X1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
280MB	M63X1.5	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6316C3	

- Note :**
1. Tolerance of Shaft End Diameter D : m6
 2. Tolerance of Key Width F : h9
 3. Tolerance of N : j6

APPD.	Ben Yang	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	J.LIU	25-Sep-12		3W049U307
DWN.	S.CAO	25-Sep-12		Rev. 00

ISSUED 25-Sep-12	OUTLINE DIMENSIONS SHEET IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS B5 (IM 3001) FRAME NOS. 280S ~ 315M	MODEL AEUV1H
REVISED		PAGE 19 of 65

Totally Enclosed Fan - Cooled Type, Squirrel - Cage Rotor.



Dimension in mm

Output (kW)			FRAME SIZE	FLANGE DIMENSION							AD	AC	AS	BE	HH	HE	AG	L	LL	O
2P	4P	6P		P	N	LA	LE	M	S	T										
110	---	---	315SA	660	550	25	140	600	24	6	527	660	163	140	269	430	336	1216	322	-
---	110	75	315SB	660	550	25	170	600	24	6	527	660	163	140	269	430	336	1246	322	-
132 (160)	---	---	315MA	660	550	25	140	600	24	6	527	660	163	140	269	430	336	1266	322	-
---	132 (160)	90 (110)	315MB	660	550	25	170	600	24	6	527	660	163	140	269	430	336	1296	322	-

FRAME SIZE	UB	SHAFT EXTENSION									BEARING		APPROX. WEIGHT kgs
		D	E	EB	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	
315SA	M63X1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
315SB	M63X1.5	80	170	160	5	40	22	71	85	M20	6320C3	6316C3	
315MA	M63X1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
315MB	M63X1.5	80	170	160	5	40	22	71	85	M20	6320C3	6316C3	

- Note :**
1. Tolerance of Shaft End Diameter D : m6
 2. Tolerance of Key Width F : h9
 3. Tolerance of N : js6
 4. Output In the Brackets for Optional Matching

APPD.	Ben Yang	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	J.LIU	25-Sep-12		3W049U307
DWN.	S.CAO	25-Sep-12		Rev. 00

ISSUED	OUTLINE DIMENSIONS SHEET	MODEL
25-Sep-12		AEEV1H
REVISED	IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS	PAGE
	B35 (IM 2001) FRAME NOS. 80M ~ 112M	20 of 65

Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.

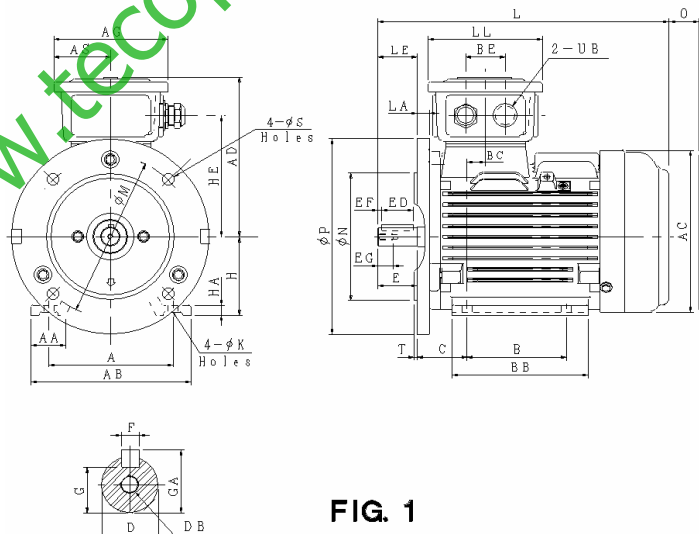


FIG. 1

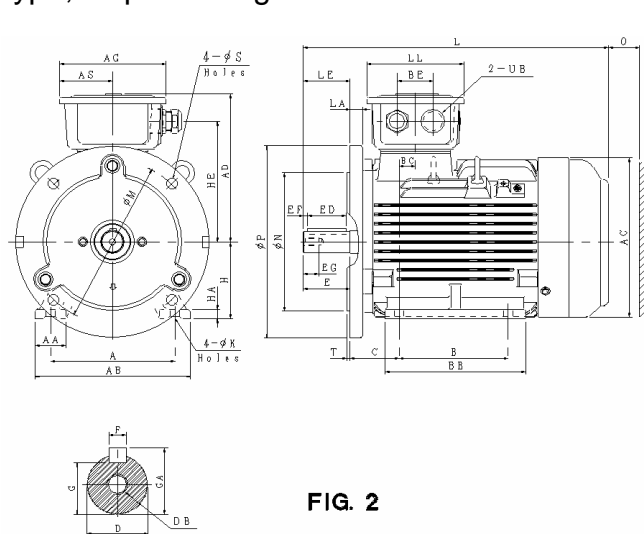


FIG. 2

Dimension in mm

Output (kW)				FRAME	FIG.	FLANGE DIMENSION							A	AA	AB	HA	H	HE	AD	AS	AG	AC	L	LL
2P	4P	6P	---			SIZE	NO.	P	N	LA	LE	M												
0.75	0.55	0.37	---	80M	1	200	130	12	40	165	12	3.5	125	34.5	161	10	80	123.5	163	67.5	125	177	293	115
1.1	0.75	0.55	---			200	130	12	50	165	12	3.5	140	40	180	10	90	133.5	173	67.5	125	197	344.5	115
1.5	1.1	0.75	---	90S		200	130	12	50	165	12	3.5	140	40	180	10	90	133.5	173	67.5	125	197	369.5	115
2.2	1.5	1.1	---	90L		200	130	12	50	165	12	3.5	140	40	180	10	90	133.5	173	67.5	125	197	369.5	115
3	2.2	1.5	---	100L	2	250	180	16	60	215	14.5	4	160	40	200	12	100	157	193	78.5	147	219	392	125
---	3	---	---	112M		250	180	15	60	215	14.5	4	190	45	235	13	112	164.5	200.5	78.5	147	235	412.5	125

FRAME SIZE	BE	BC	C	B	BB	O	UB	K	SHAFT EXTENSION								BEARING		APPROX	
									D	E	EF	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE	WEIGHT
																			DRIVE END	
80M	40	18.5	50	100	137	40	M20x1.5	10	19	40	4	32	16	6	15.5	21.5	M6	6204ZZ	6204ZZ	19.5
90S	40	36	56	100	161	40	M20x1.5	10	24	50	5	40	19	8	20	27	M8	6205ZZ	6205ZZ	24.5
90L	40	36	56	125	186	40	M20x1.5	10	24	50	5	40	19	8	20	27	M8	6205ZZ	6205ZZ	28.5
100L	50	21	63	140	181	50	M25x1.5	12	28	60	5	50	22	8	24	31	M10	6206ZZ	6206ZZ	39.5
112M	50	28	70	140	186	50	M25x1.5	12	28	60	5	50	22	8	24	31	M10	6306ZZ	6306ZZ	52.0

Note : 1. Tolerance of shaft end diameter D : Under $\phi 19 \sim \phi 28 : j6$.

2. Tolerance of shaft center high H : +0, -0.5.

3. Tolerance of N : j6.

APPD.	H.C.YAN	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	SHITOU	25-Sep-12		32057R9250
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ISSUED	OUTLINE DIMENSIONS SHEET	MODEL
25-Sep-12		AEEV1H
REVISED	E2 EFFICIENCY 3-PHASE INDUCTION MOTORS	PAGE
	B35 (IM 2001) FRAME NOS. 132S ~ 132M	21 of 65

Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.

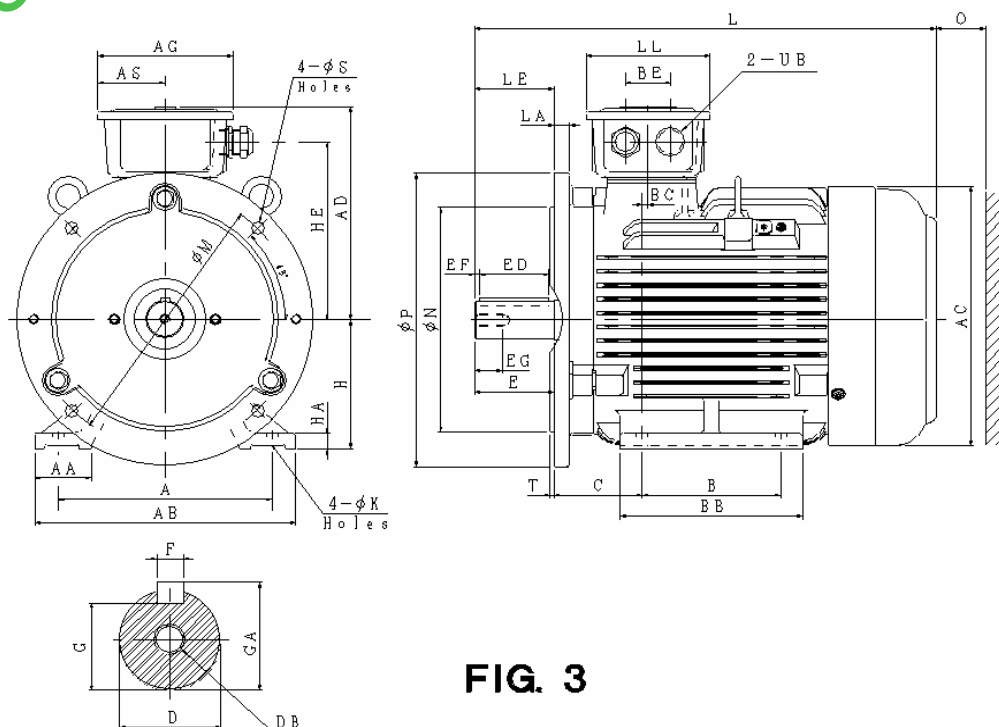


FIG. 3

Dimension in mm

Output (kW)				FRAME	FIG.	FLANGE DIMENSION							A	AA	AB	HA	H	HE	AD	AS	AG	AC	L	LL	BE	BC
2P	4P	6P	---	SIZE	NO.	P	N	LA	LE	M	S	T														
5.5	5.5	3	---	132S	3	300	230	16	80	265	14.5	4	216	57	263	16	132	182	218	78.5	147	272.9	466	125	50	6
7.5	---	---	---																							
---	7.5	4	---	132M		300	230	16	80	265	14.5	4	216	57	263	16	132	182	218	78.5	147	272.9	504	125	50	6
---	---	5.5	---																							

FRAME SIZE	C	B	BB	O	UB	K	SHAFT EXTENSION									BEARING		APPROX.
							D	E	EF	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE	WEIGHT
																	DRIVE END	
132S	89	140	184	50	M25x1.5	12	38	80	5	70	28	10	33	41	M12	6308ZZ	6306ZZ	67.0
132M	89	178	222	50	M25x1.5	12	38	80	5	70	28	10	33	41	M12	6308ZZ	6306ZZ	77.0

- Note :**
1. Tolerance of shaft end diameter D : $\phi 38:k6$.
 2. Tolerance of shaft center high H : +0, -0.5.
 3. Tolerance of N : j6.

APPD.	H.C.YAN	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	SHITOU	25-Sep-12		32057R9250
DWN.	TDY	25-Sep-12		Rev. 00

ISSUED	OUTLINE DIMENSIONS SHEET	MODEL
25-Sep-12		AEEV1H
REVISED	E2 EFFICIENCY 3-PHASE INDUCTION MOTORS	PAGE
	B35 (IM 2001) FRAME NOS. 160M ~ 180L	22 of 65

Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.

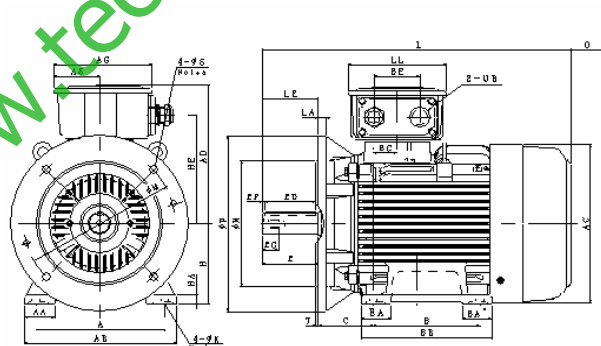


FIG. 4

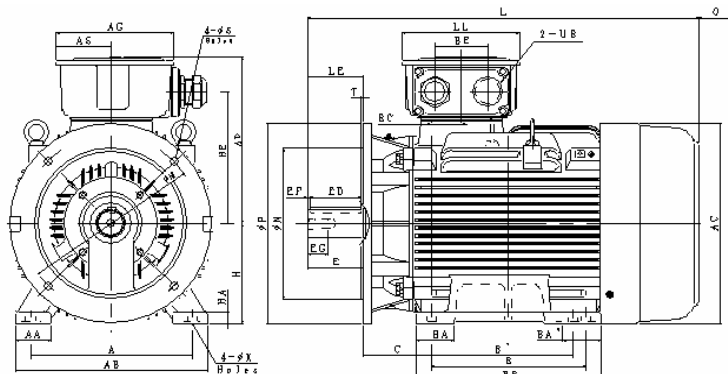


FIG. 5

Dimension in mm

Output (kW)				FRAME	FIG.	FLANGE DIMENSION							A	AA	AB	AC	AD	AG	AS	B	O	BA	BA'	BB	BE	BC
2P	4P	6P	---			SIZE	NO.	P	N	LA	LE	M														
11	11	7.5	---	160M	4	350	250	15	110	300	18.5	5	254	60	300	317	273	193	91.5	210	60	57.5	57.5	256	89	38
15	---	---	---	160L		350	250	15	110	300	18.5	5	254	60	300	317	273	193	91.5	254	60	57.5	101.5	300	89	38
22	18.5	---	---	180M	5	350	250	15	110	300	18.5	5	279	65	330	354	299	193	91.5	241	70	62	62	292	89	39
---	22	15	---	180L		350	250	15	110	300	18.5	5	279	65	330	351	299	193	91.5	279	70	62	100	330	89	39

FRAME SIZE	C	H	HA	HE	K	L	LL	UB	SHAFT EXTENSION									BEARING		APPROX.
									D	E	EF	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE	WEIGHT
																			DRIVE END	
160M	108	160	18	215	14.5	608	193	M32x1.5	42	110	5	100	36	12	37	45	M16	6309ZZ	6307ZZ	119.0
160L	108	160	18	215	14.5	652	193	M32x1.5	42	110	5	100	36	12	37	45	M16	6309ZZ	6307ZZ	138.0
180M	121	180	20	241	14.5	672	193	M32x1.5	48	110	5	100	36	14	42.5	51.5	M16	(6311C3)	(6310C3)	179.0
180L	121	180	20	241	14.5	710	193	M32x1.5	48	110	5	100	36	14	42.5	51.5	M16			6311

- Note :** 1. Tolerance of shaft end diameter D : $\phi 42 \sim \phi 48 : k6$.
2. Tolerance of shaft center high H : +0, -0.5.
3. Tolerance of N : j6.

APPD.	H.C.YAN	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	SHITOU	25-Sep-12		32057R9250
DWN.	TDY	25-Sep-12		Rev. 00

ISSUED 25-Sep-12	OUTLINE DIMENSIONS SHEET E2 EFFICIENCY 3-PHASE INDUCTION MOTORS B35 (IM 2001) FRAME NOS. 200L ~ 250M	MODEL AEEV1H
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Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.

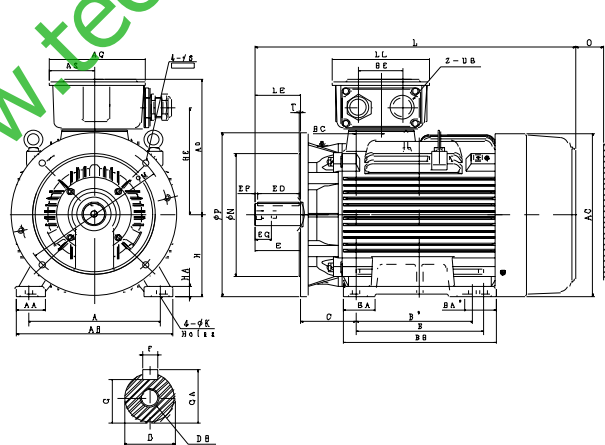


FIG. 6

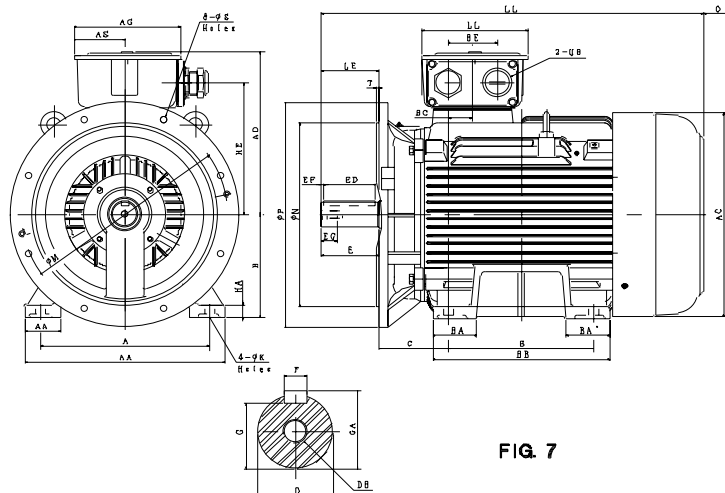


FIG. 7

Dimension in mm

Output (kW)				FRAME	FIG.	FLANGE DIMENSION							A	AA	AB	AC	AD	AG	AS	B	B'	O	BA	BA'	BB
2P	4P	6P	---			SIZE	NO.	P	N	LA	LE	M													
30 37	30	18.5 22	---	200L	6	400	300	17	110	350	18.5	5	318	70	378	398	332	231	110.5	305	---	80	76	76	365
---	37	---	---	225SC	7	450	350	20	140	400	18.5	5	356	75	431	449	358	231	110.5	286	---	90	90	90	350
45	---	---	---	225MA		450	350	20	110	400	18.5	5	356	75	431	449	358	231	110.5	311	286	90	90	115	375
---	45	30	---	225MC		450	350	20	140	400	18.5	5	356	75	431	449	358	231	110.5	311	286	90	90	115	375
55	---	---	---	250MA		550	450	22	140	500	18.5	5	406	85	480	498	400	255	122.5	349	---	105	105	105	425
---	55	37	---	250MC		550	450	22	140	500	18.5	5	406	85	480	498	400	255	122.5	349	---	105	105	105	425

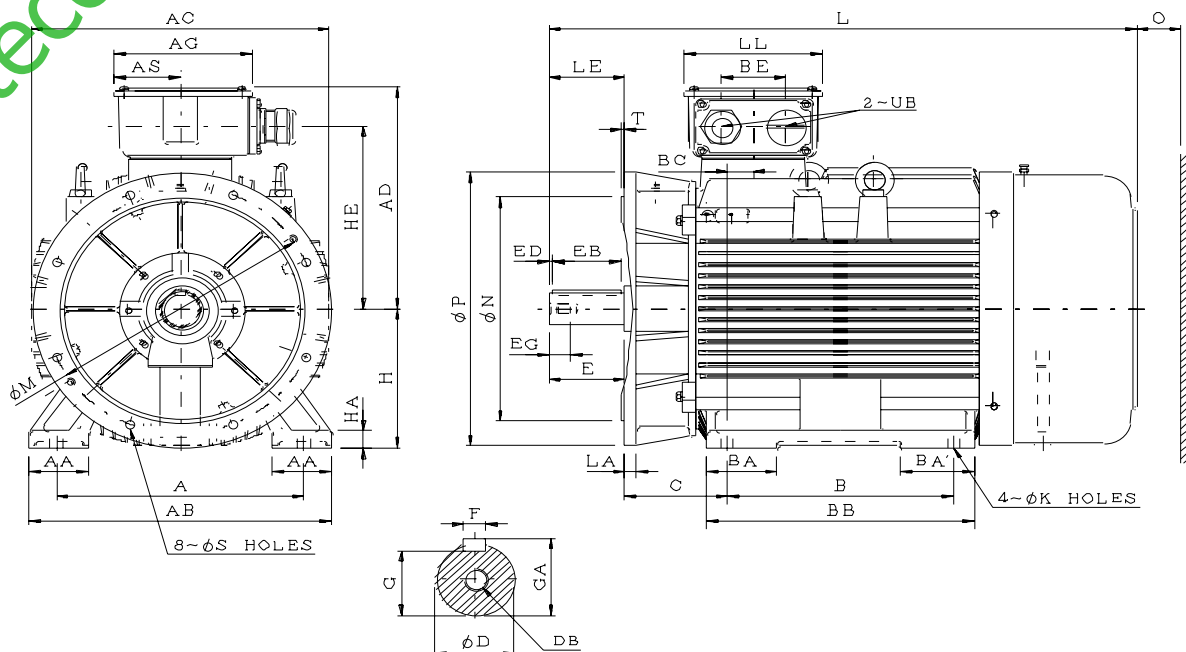
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

- Note :**
1. Tolerance of shaft end diameter D : Under $\phi 55 \sim \phi 65$: m6.
 2. Tolerance of shaft center high H : +0, -0.5.
 3. Bearing No. In () is for 2P.

APPD.	H.C.YAN	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO. 32057R9250 Rev. 00
CHKD.	SHITOU	25-Sep-12		
DWN.	TDY	25-Sep-12		

ISSUED	OUTLINE DIMENSIONS SHEET														MODEL
25-Sep-12															AEEV1H
REVISED	IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS														PAGE
	B35 (IM 2001) FRAME NOS. 280S ~ 355L														24 of 65

Totally Enclosed Fan - Cooled Type, Squirrel - Cage Rotor.



Dimension in mm

Output (kW)			FRAME SIZE	FLANGE DIMENSION							AD	AC	AS	BE	C	HE	AG	L	H	K	LL	O	BC	A
2P	4P	6P		P	N	LA	LE	M	S	T														
75	---	---	280SA	550	450	22	140	500	18.5	5	446	550	122.5	119	190	367	255	1037.5	280	24	255	-	48	457
---	75	45	280SB	550	450	22	140	500	18.5	5	446	550	122.5	119	190	367	255	1037.5	280	24	255	-	48	457
90	---	---	280MA	550	450	22	140	500	18.5	5	446	550	122.5	119	190	367	255	1087.5	280	24	255	-	48	457
---	90	55	280MB	550	450	22	140	500	18.5	5	446	550	122.5	119	190	367	255	1087.5	280	24	255	-	48	457

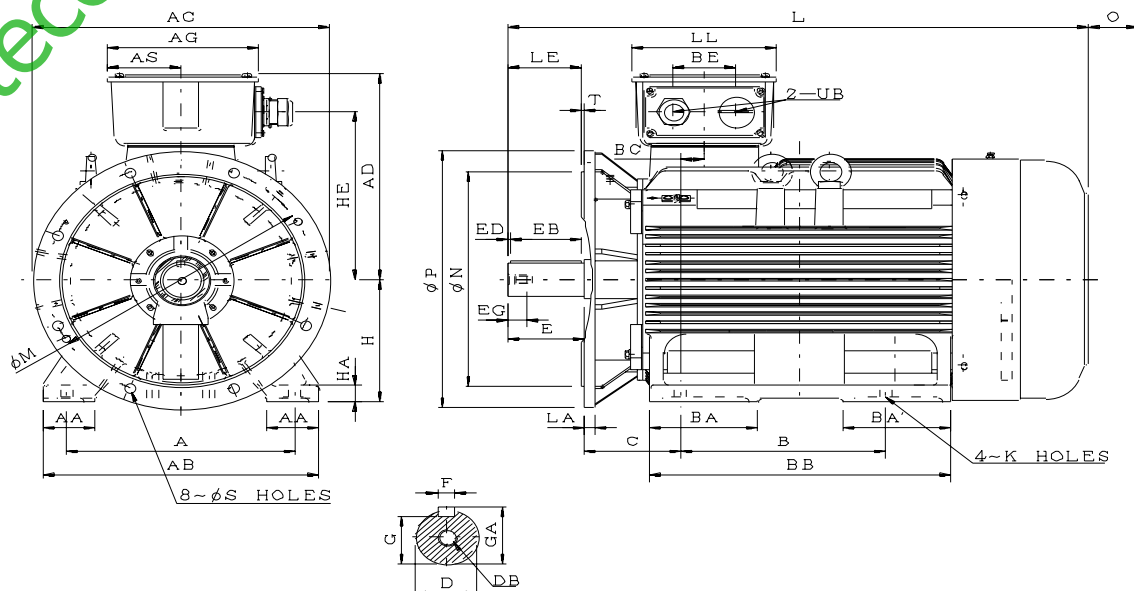
FRAME SIZE	HA	AB	AA	B	B'	BB	BA	BA'	UB	SHAFT EXTENSION								BEARING		APPROX.	
										D	E	EB	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE	WEIGHT
																				DRIVE END	
280SA	35	560	110	368	-	445	110	110	M63X1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
280SB	35	560	110	368	-	445	110	110	M63X1.5	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6316C3	
280MA	35	560	110	419	-	495	130	137	M63X1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
280MB	35	560	110	419	-	495	130	137	M63X1.5	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6316C3	

- Note :**
1. Tolerance of Shaft End Diameter D : m6
 2. Tolerance of Key Width F : h9
 3. Tolerance of Shaft Center Height H : +0, -1
 4. Tolerance of N : j6

APPD.	Ben Yang	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	J.LIU	25-Sep-12		3W049U311
DWN.	S.CAO	25-Sep-12		Rev. 00 1/5

ISSUED	OUTLINE DIMENSIONS SHEET										MODEL
25-Sep-12											AEEV1H
REVISED	IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS										PAGE
	B35 (IM 2001) FRAME NOS. 280S ~ 355L										25 of 65

Totally Enclosed Fan - Cooled Type, Squirrel - Cage Rotor.



Dimension in mm

Output (kW)			FRAME SIZE	FLANGE DIMENSION							AD	AC	AS	BE	C	HE	AG	L	H	K	LL	O	BC	A
2P	4P	6P		P	N	LA	LE	M	S	T														
110	---	---	315SA	660	550	25	140	600	24	6	527.5	660	163	140	216	430	336	1216	315	28	322	-	53	508
---	110	75	315SB	660	550	25	170	600	24	6	527.5	660	163	140	216	430	336	1246	315	28	322	-	53	508
132 (160)	---	---	315MA	660	550	25	140	600	24	6	527.5	660	163	140	216	430	336	1266	315	28	322	-	53	508
---	132 (160)	90 (110)	315MB	660	550	25	170	600	24	6	527.5	660	163	140	216	430	336	1296	315	28	322	-	53	508

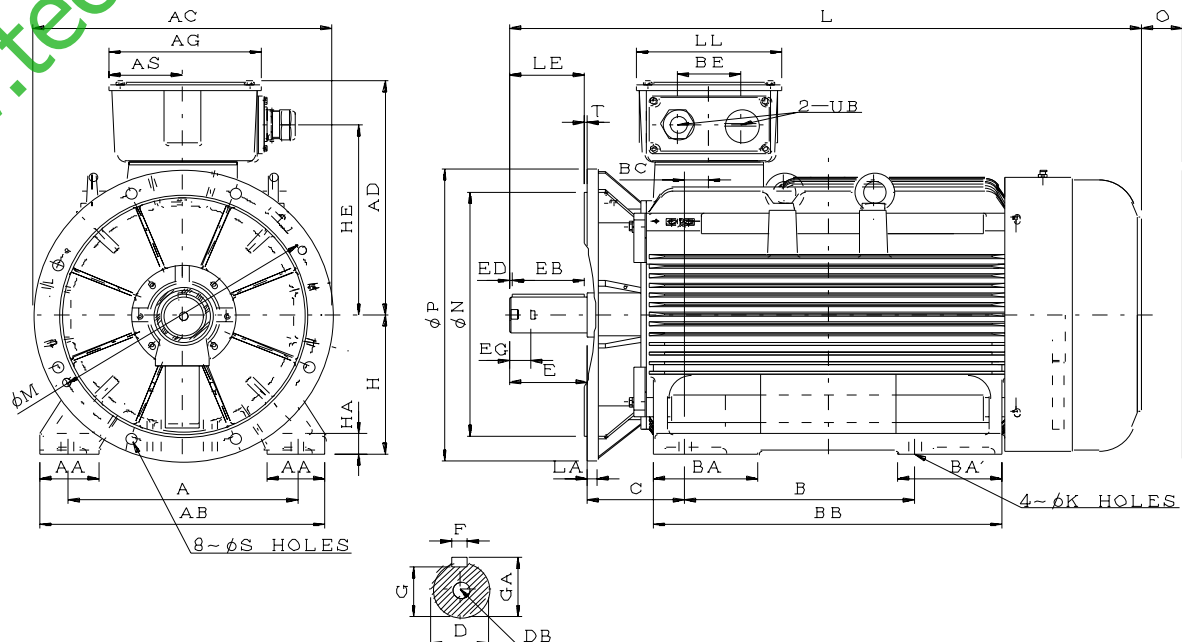
FRAME SIZE	HA	AB	AA	B	B'	BB	BA	BA'	UB	SHAFT EXTENSION								BEARING		APPROX.	
										D	E	EB	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE	WEIGHT
																				DRIVE END	
315SA	45	615	115	406	---	620	210	210	M63X1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
315SB	45	615	115	406	---	620	210	210	M63X1.5	80	170	160	5	40	22	71	85	M20	6320C3	6316C3	
315MA	45	615	115	457	---	670	240	240	M63X1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
315MB	45	615	115	457	---	670	240	240	M63X1.5	80	170	160	5	40	22	71	85	M20	6320C3	6316C3	

- Note :**
1. Tolerance of Shaft End Diameter D : m6
 2. Tolerance of Key Width F : h9
 3. Tolerance of Shaft Center Height H : +0, -1
 4. Tolerance of N : js6
 5. Output In the Brackets for Optional Matching

APPD.	Ben Yang	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	J.LIU	25-Sep-12		3W049U311
DWN.	S.CAO	25-Sep-12		Rev. 00 2/5

ISSUED	OUTLINE DIMENSIONS SHEET	MODEL
25-Sep-12		AEEV1H
REVISED	IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS	PAGE
	B35 (IM 2001) FRAME NOS. 280S ~ 355L	26 of 65

Totally Enclosed Fan - Cooled Type, Squirrel - Cage Rotor.



Dimension in mm

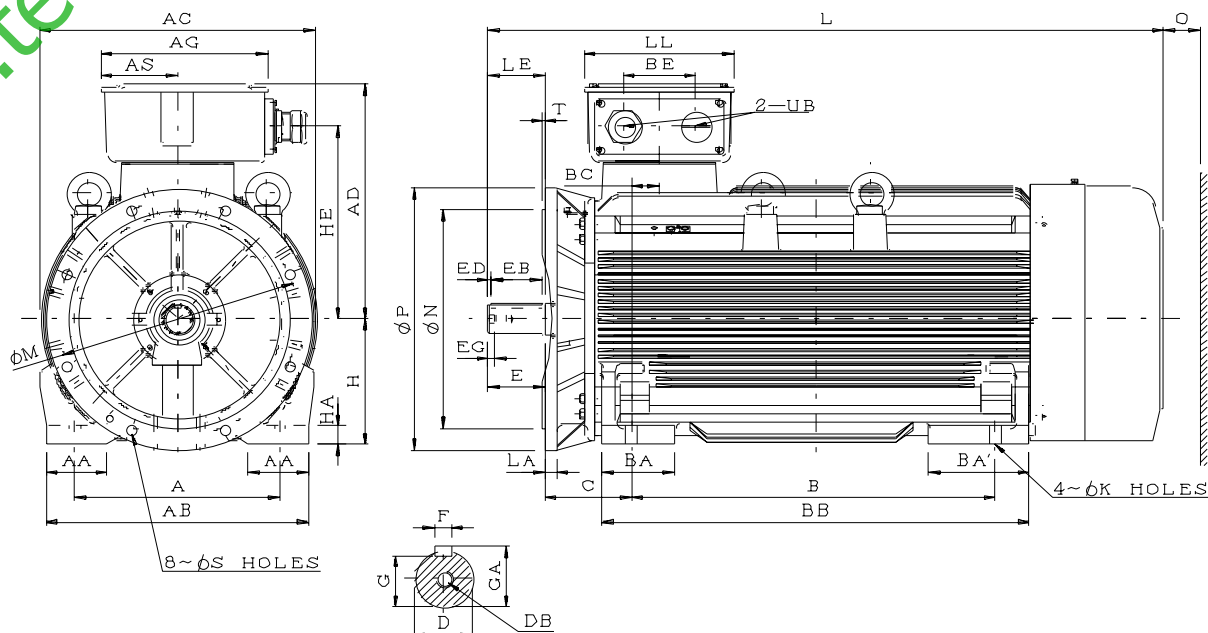
Output (kW)			FRAME		FLANGE DIMENSION						AD	AC	AS	BE	C	HE	AG	L	H	K	LL	O	BC	A
2P	4P	6P			SIZE	P	N	LA	LE	M														
160 200	---	---	315LA	660	550	25	140	600	24	6	527.5	660	163	140	216	430	336	1366	315	28	322	-	53	508
---	160 200	110 132 (160)	315LB	660	550	25	170	600	24	6	527.5	660	163	140	216	430	336	1396	315	28	322	-	53	508
FRAME SIZE	HA	AB	AA	B	B'	BB	BA	BA'	UB	SHAFT EXTENSION								BEARING		APPROX.				
										D	E	EB	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE	WEIGHT			
																				DRIVE END		kgs		
315LA	45	630	130	508	-	770	230	230	M63X1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3				
315LB	45	630	130	508	-	770	230	230	M63X1.5	80	170	160	5	40	22	71	85	M20	6320C3	6316C3				

- Note :**
1. Tolerance of Shaft End Diameter D : m6
 2. Tolerance of Key Width F : h9
 3. Tolerance of Shaft Center Height H : +0, -1
 4. Tolerance of N : js6
 5. Output In the Brackets for Optional Matching

APPD.	Ben Yang	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	J.LIU	25-Sep-12		3W049U311
DWN.	S.CAO	25-Sep-12		Rev. 00 3/5

ISSUED	OUTLINE DIMENSIONS SHEET	MODEL
25-Sep-12		AEEV1H
REVISED	IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS	PAGE
	B35 (IM 2001) FRAME NOS. 280S ~ 355L	27 of 65

Totally Enclosed Fan - Cooled Type, Squirrel - Cage Rotor.



Dimension in mm

Output (kW)			FRAME		FLANGE DIMENSION						AD	AC	AS	BE	C	HE	AG	L	H	K	LL	O	BC	A
2P	4P	6P			SIZE	P	N	LA	LE	M														
250 315	---	---	315DA	660	550	30	140	600	24	6	590	682	189	180	216	485	412	1674	315	28	372	-	68	508
---	250 315	200 250	315DB	660	550	30	170	600	24	6	590	682	189	180	216	485	412	1704	315	28	372	-	68	508

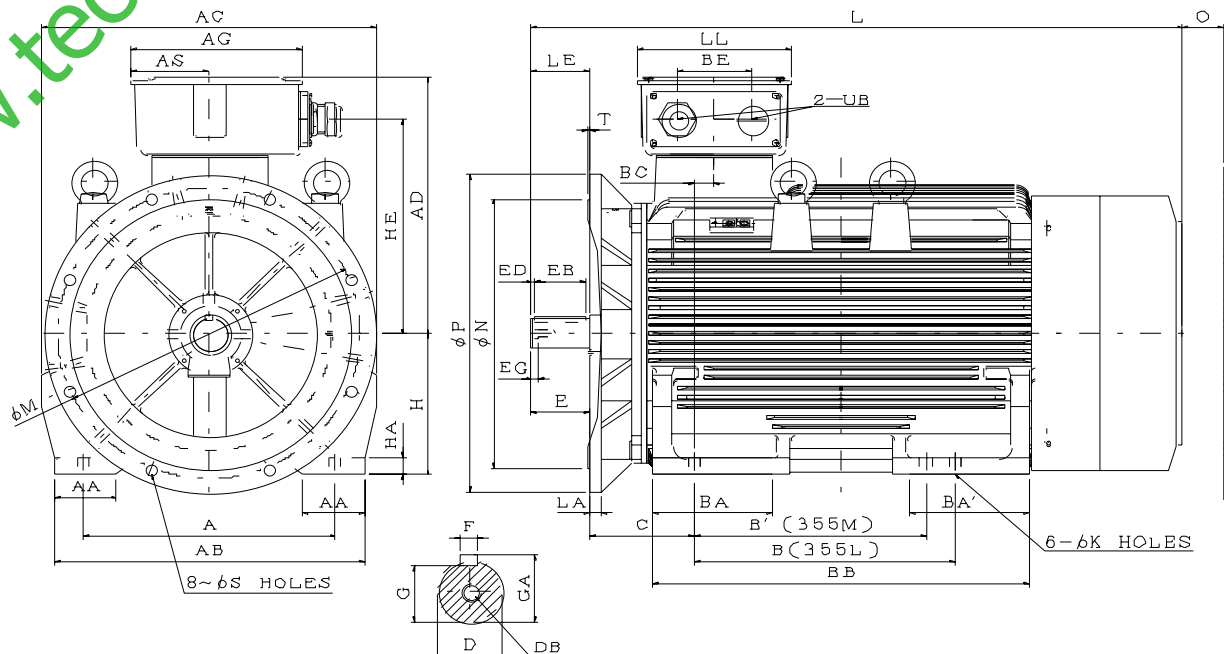
FRAME SIZE	HA	AB	AA	B	B'	BB	BA	BA'	UB	SHAFT EXTENSION								BEARING		APPROX.	
										D	E	EB	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE	WEIGHT
																				DRIVE END	
315DA	45	650	150	900	-	1060	180	250	M72X2	75	140	125	7.5	40	20	67.5	79.5	M20	6316C3	6316C3	
315DB	45	650	150	900	-	1060	180	250	M72X2	95	170	160	5	48	25	86	100	M24	6322C3	6322C3	

- Note :**
1. Tolerance of Shaft End Diameter D : m6
 2. Tolerance of Key Width F : h9
 3. Tolerance of Shaft Center Height H : +0, -1
 4. Tolerance of N : js6

APPD.	Ben Yang	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	J.LIU	25-Sep-12		3W049U311
DWN.	S.CAO	25-Sep-12		Rev. 00

ISSUED	OUTLINE DIMENSIONS SHEET												MODEL
25-Sep-12													AEEV1H
REVISED	IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS												PAGE
	B35 (IM 2001) FRAME NOS. 280S ~ 355L												28 of 65

Totally Enclosed Fan - Cooled Type, Squirrel - Cage Rotor.



Dimension in mm

Output (kW)			FRAME SIZE	FLANGE DIMENSION							AD	AC	AS	BE	C	HE	AG	L	H	K	LL	O	BC	A
2P	4P	6P		P	N	LA	LE	M	S	T														
250	---	---	355MA	800	680	30	140	740	24	6	645	810	189	180	254	540	412	1575	355	28	372	-	48	610
---	250	200	355MB	800	680	30	170	740	24	6	645	810	189	180	254	540	412	1605	355	28	372	-	48	610
315	---	---	355LA	800	680	30	140	740	24	6	645	810	189	180	254	540	412	1575	355	28	372	-	48	610
---	315	250	355LB	800	680	30	170	740	24	6	645	810	189	180	254	540	412	1605	355	28	372	-	48	610

FRAME SIZE	HA	AB	AA	B	B'	BB	BA	BA'	UB	SHAFT EXTENSION								BEARING		APPROX.	
										D	E	EB	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	WEIGHT kgs
355MA	45	750	150	---	560	910	330	330	M72X2	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6318C3	
355MB	45	750	150	---	560	910	330	330	M72X2	95	170	160	5	48	25	86	100	M24	6322C3	6322C3	
355LA	45	750	150	630	---	910	330	330	M72X2	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6318C3	
355LB	45	750	150	630	---	910	330	330	M72X2	95	170	160	5	48	25	86	100	M24	6322C3	6322C3	

- Note :**
1. Tolerance of Shaft End Diameter D : m6
 2. Tolerance of Key Width F : h9
 3. Tolerance of Shaft Center Height H : +0, -1

APPD.	Ben Yang	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	J.LIU	25-Sep-12		3W049U311
DWN.	S.CAO	25-Sep-12		Rev. 00

ISSUED	OUTLINE DIMENSIONS SHEET	MODEL
25-Sep-12		AEUV1H
REVISED	IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS	PAGE
	V1 (IM 3011) FRAME NOS. 80M ~ 112M	29 of 65

Totally Enclosed Fan-Cooled Type. Squirrel-Cage Rotor.

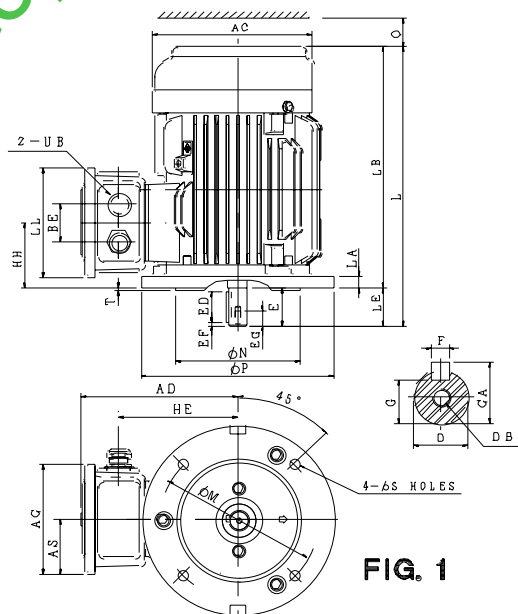


FIG. 1

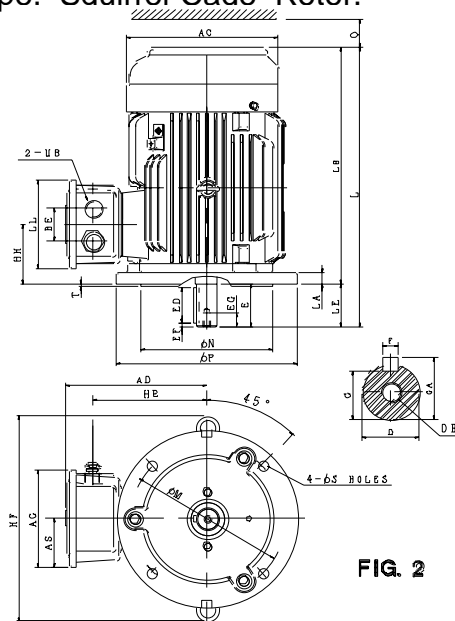


FIG. 2

Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	FLANGE DIMENSION							AD	AC	AS	BE	HH	HE	AG	HF	L	LL	O
2P	4P	6P	---			P	N	LA	LE	M	S	T											
0.75	0.55	0.37	---	80M	1	200	130	12	40	165	12	3.5	163	176.5	67.5	40	68.5	123.5	125	---	293	115	40
1.1	0.75	0.55	---	90S		200	130	12	50	165	12	3.5	173	196.5	67.5	40	92	133.5	125	---	344.5	115	40
2.2	1.5	1.1	---	90L		200	13	12	50	165	12	3.5	173	196.5	67.5	40	92	133.5	125	---	369.5	115	40
3	2.2	1.5	---	100L	2	250	180	16	60	215	14.5	4	193	218.9	78.5	50	84	157	147	288.5	392	125	50
---	3	---	---																				
4	4	2.2	---	112M		250	180	15	60	215	14.5	4	200.5	234.9	78.5	50	98	164.5	147	306.5	412.5	125	50

FRAME SIZE	UB	SHAFT EXTENSION									BEARING		APPROX. WEIGHT kgs
		D	E	EF	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	
80M	M20X1.5	19	40	4	32	16	6	15.5	21.5	M6	6204ZZ	6204ZZ	19.5
90S	M20X1.5	24	50	5	40	19	8	20	27	M8	6205ZZ	6205ZZ	24.5
90L	M20X1.5	24	50	5	40	19	8	20	27	M8	6205ZZ	6205ZZ	28.5
100L	M25X1.5	28	60	5	50	22	8	24	31	M10	6206ZZ	6206ZZ	39.5
112M	M25X1.5	28	60	5	50	22	8	24	31	M10	6306ZZ	6306ZZ	52.0

Note : 1. Tolerance of shaft end diameter D : Under $\phi 19 \sim \phi 28$: j6 :

2. Tolerance of N : j6.

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CHKD.	SHITOU	25-Sep-12		32057R9251
DWN.	TDY	25-Sep-12		Rev. 00

ISSUED 25-Sep-12	OUTLINE DIMENSIONS SHEET IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS V1 (IM 3011) FRAME NOS. 132S ~ 132M	MODEL AEUV1H
REVISED		PAGE 30 of 65

Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.

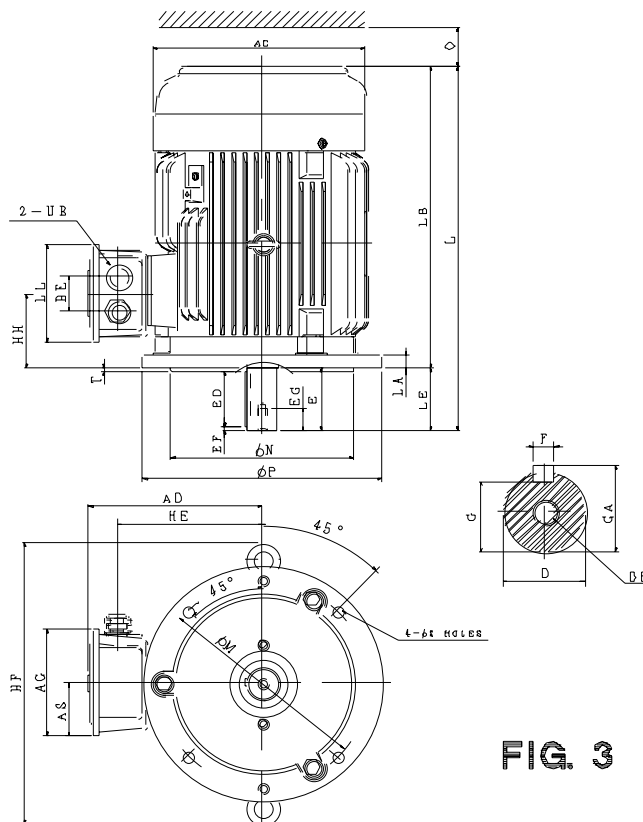


FIG. 3

Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	FLANGE DIMENSION							AD	AC	AS	BE	HH	HE	AG	HF	L	LL	O
2P	4P	6P	---			P	N	LA	LE	M	S	T											
5.5	5.5	3	---	132S	3	300	230	16	80	265	14.5	4	218	258	78.5	50	95	182	147	360	466	125	50
7.5	---	---	---																				
---	7.5	4	---	132M		300	230	16	180	265	14.5	4	218	258	78.5	50	95	182	147	360	504	125	50
---	---	5.5	---																				

FRAME SIZE	UB	SHAFT EXTENSION									BEARING		APPROX. WEIGHT kgs
		D	E	EF	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	
132S	M25X1.5	38	80	5	70	28	10	33	41	M12	6308ZZ	6306ZZ	67.0
132M	M25X1.5	38	80	5	70	28	10	33	41	M12	6308ZZ	6306ZZ	77.0

Note : 1. Tolerance of shaft end diameter D : $\phi 38:k6$.
2. Tolerance of N : j6.

APPD.	H.C.YAN	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	SHITOU	25-Sep-12		32057R9251
DWN.	TDY	25-Sep-12		Rev. 00

ISSUED	OUTLINE DIMENSIONS SHEET	MODEL
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	V1 (IM 3011) FRAME NOS. 160M ~ 180L	31 of 65

Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.

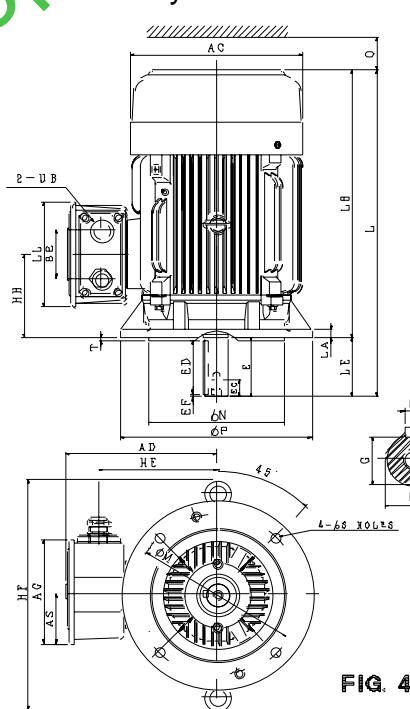


FIG. 4

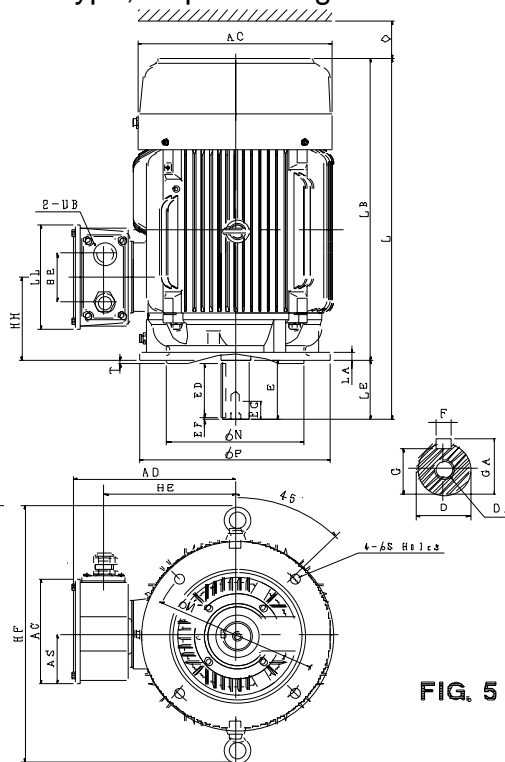


FIG. 5

imension in mm

Output (kW)				FRAME SIZE	FIG. NO.	FLANGE DIMENSION							AD	AC	AS	BE	HH	HE	AG	HF	L	LL	O
2P	4P	6P	---			P	N	LA	LE	M	S	T											
11	11	7.5	---	160M	4	350	250	15	110	300	18.5	5	273	317	91.5	89	155	215	193	427	608	193	60
15	15	11	---	160L		350	250	15	110	300	18.5	5	273	317	91.5	89	155	215	193	427	652	193	60
4	18.5	---	---	180M	5	350	250	15	110	300	18.5	5	299	354	91.5	89	160	241	193	476	672	193	70
---	22	15	---	180L		350	250	15	110	300	18.5	5	299	354	91.5	89	160	241	193	476	710	193	70

FRAME SIZE	UB	SHAFT EXTENSION								BEARING		APPROX. WEIGHT kgs
		D	E	EF	ED	EG	F	G	GA	DB	DRIVE END DRIVE END	
160M	M32x 1.5	42	110	5	100	36	12	37	45	M16	6309ZZ 6307ZZ	119.0
160L	M32 x 1.5	42	110	5	100	36	12	37	45	M16	6309ZZ 6307ZZ	138.0
180M	M32 x 1.5	48	110	5	100	36	14	42.5	51.5	M16	(6311C3) (6310C3)	179.0
180L	M32 x 1.5	48	110	5	100	36	14	42.5	51.5	M16	6311 6310	200.0

- Note :**
1. Tolerance of shaft end diameter D : Under $\phi 42 \sim \phi 48$: k6.
 2. Tolerance of N : j6.
 3. Bearing No. In () is for 2P.

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ISSUED 25-Sep-12	OUTLINE DIMENSIONS SHEET IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS V1 (IM 3011) FRAME NOS. 200L ~ 250M	MODEL AEUV1H
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Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.

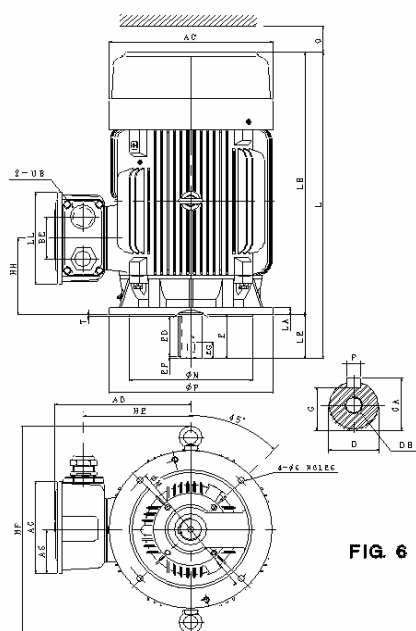


FIG. 6

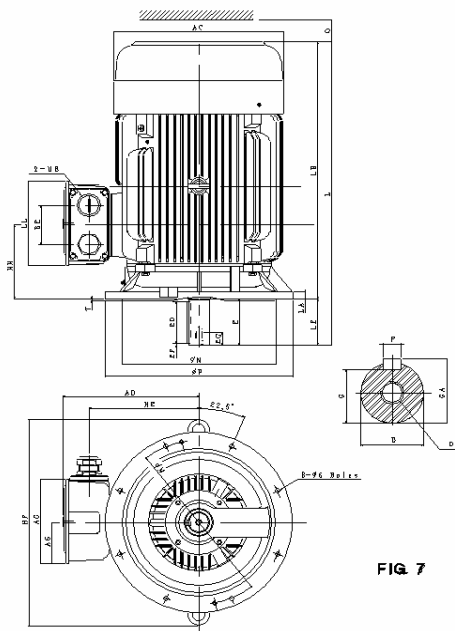


FIG. 7

Dimension in mm

Output (kW)				FRAME	FIG. NO.	FLANGE DIMENSION							AD	AC	AS	BE	HH	HE	AG	HF	L	LL	O
2P	4P	6P	---	SIZE		P	N	LA	LE	M	S	T											
30 37	30	18.5 22	---	200L	6	400	300	17	110	350	18.5	5	332	398	110.5	106	193	262	231	524	770	231	80
---	37	---	---	225SC	7	450	350	20	140	400	18.5	5	358	449	110.5	106	186.5	288	231	574	816	231	90
45	---	---	---	225MA		450	350	20	110	400	18.5	5	358	449	110.5	106	186.5	288	231	574	811	231	90
---	45	30	---	225MC		450	350	20	140	400	18.5	5	358	449	110.5	106	186.5	288	231	574	841	231	90
55	---	---	---	250MA		550	450	22	140	500	18.5	5	400	498	122.5	119	225.5	322	255	642	921	255	105
---	55	37	---	250MC		550	450	22	140	500	18.5	5	400	498	122.5	119	225.5	322	255	642	921	255	105

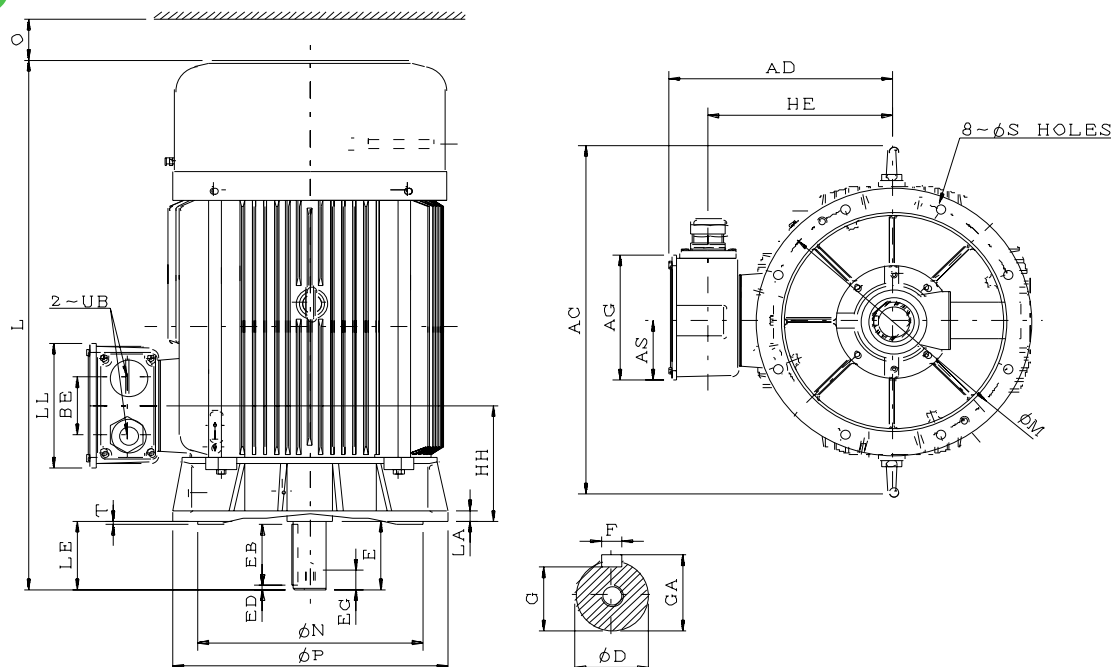
FRAME SIZE	UB	SHAFT EXTENSION									BEARING		APPROX. WEIGHT kgs
		D	E	EF	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	
200L	M50 x 1.5	55	110	5	100	42	16	49	59	M20	(6312C3) 6312	(6212C3) 6212	270.0
225SC	M50 x 1.5	60	140	7.5	125	42	18	53	64	M20	(6312C3) 6313	(6212C3) 6213	319.0
225MA	M50 x 1.5	55	110	5	100	42	16	49	59	M20			319.0
225MC	M50 x 1.5	60	140	7.5	125	42	18	53	64	M20			332.0
250MA	M63 x 1.5	60	140	7.5	125	42	18	53	64	M20	(6313C3) 6315	(6313C3) 6313	405.0
250MC	M63 x 1.5	65	140	7.5	125	42	18	58	69	M20			452.0

Note : 1. Tolerance of shaft end diameter D : Under $\phi 55 \sim \phi 65$: m6.
2. Tolerance of N : j6 3. Bearing No. In () is for 2P.

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ISSUED 25-Sep-12	OUTLINE DIMENSIONS SHEET IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS V1 (IM 3011) FRAME NOS. 280S ~ 355L	MODEL AEUV1H
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Totally Enclosed Fan - Cooled Type, Squirrel - Cage Rotor.



Dimension in mm

Output (kW)			FRAME SIZE	FLANGE DIMENSION							AD	AC	AS	BE	HH	HE	AG	L	LL	O
2P	4P	6P		P	N	LA	LE	M	S	T										
75	---	---	280SA	550	450	22	140	500	18.5	5	446	717	122.5	119	238	367	255	1037.5	255	-
---	75	45	280SB	550	450	22	140	500	18.5	5	446	717	122.5	119	238	367	255	1037.5	255	-
90	---	---	280MA	550	450	22	140	500	18.5	5	446	717	122.5	119	238	367	255	1087.5	255	-
---	90	55	280MB	550	450	22	140	500	18.5	5	446	717	122.5	119	238	367	255	1087.5	255	-

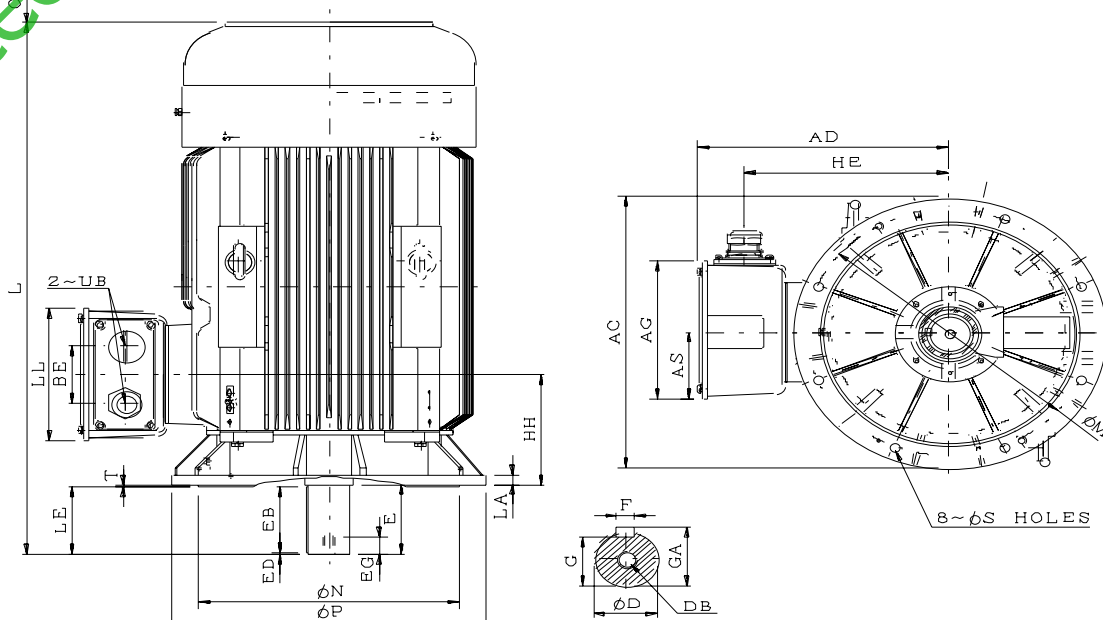
FRAME SIZE	UB	SHAFT EXTENSION									BEARING		APPROX. WEIGHT kgs
		D	E	EB	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	
280SA	M63X1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
280SB	M63X1.5	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6316C3	
280MA	M63X1.5	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
280MB	M63X1.5	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6316C3	

- Note :**
1. Tolerance of Shaft End Diameter D : m6
 2. Tolerance of Key Width F : h9
 3. Tolerance of N : j6

APPD.	Ben Yang	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	J.LIU	25-Sep-12		3W049U369
DWN.	S.CAO	25-Sep-12		Rev. 00 1/5

ISSUED 25-Sep-12	OUTLINE DIMENSIONS SHEET IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS V1 (IM 3011) FRAME NOS. 280S ~ 355L	MODEL AEUV1H
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Totally Enclosed Fan - Cooled Type, Squirrel - Cage Rotor.



Dimension in mm

Output (kW)			FRAME SIZE	FLANGE DIMENSION							AD	AC	AS	BE	HH	HE	AG	L	LL	O
2P	4P	6P		P	N	LA	LE	M	S	T										
110	---	---	315SA	660	550	25	140	600	24	6	527	660	163	140	269	430	336	1216	322	-
---	110	75	315SB	660	550	25	170	600	24	6	527	660	163	140	269	430	336	1246	322	-
132 (160)	---	---	315MA	660	550	25	140	600	24	6	527	660	163	140	269	430	336	1266	322	-
---	132 (160)	90 (110)	315MB	660	550	25	170	600	24	6	527	660	163	140	269	430	336	1296	322	-

FRAME SIZE	UB	SHAFT EXTENSION									BEARING		APPROX. WEIGHT kgs
		D	E	EB	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	
315SA	M63X1.5	65	140	125	7.5	40	18	58	69	M20	7316C3	6314C3	
315SB	M63X1.5	80	170	160	5	40	22	71	85	M20	6320C3	6316C3	
315MA	M63X1.5	65	140	125	7.5	40	18	58	69	M20	7316C3	6314C3	
315MB	M63X1.5	80	170	160	5	40	22	71	85	M20	6320C3	6316C3	

- Note :**
1. Tolerance of Shaft End Diameter D : m6
 2. Tolerance of Key Width F : h9
 3. Output In the Brackets for Optional Matching
 4. Tolerance of N : js6

APPD.	Ben Yang	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
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OUTLINE DIMENSIONS SHEET

MODEL

AEUV1H

REVISÉD

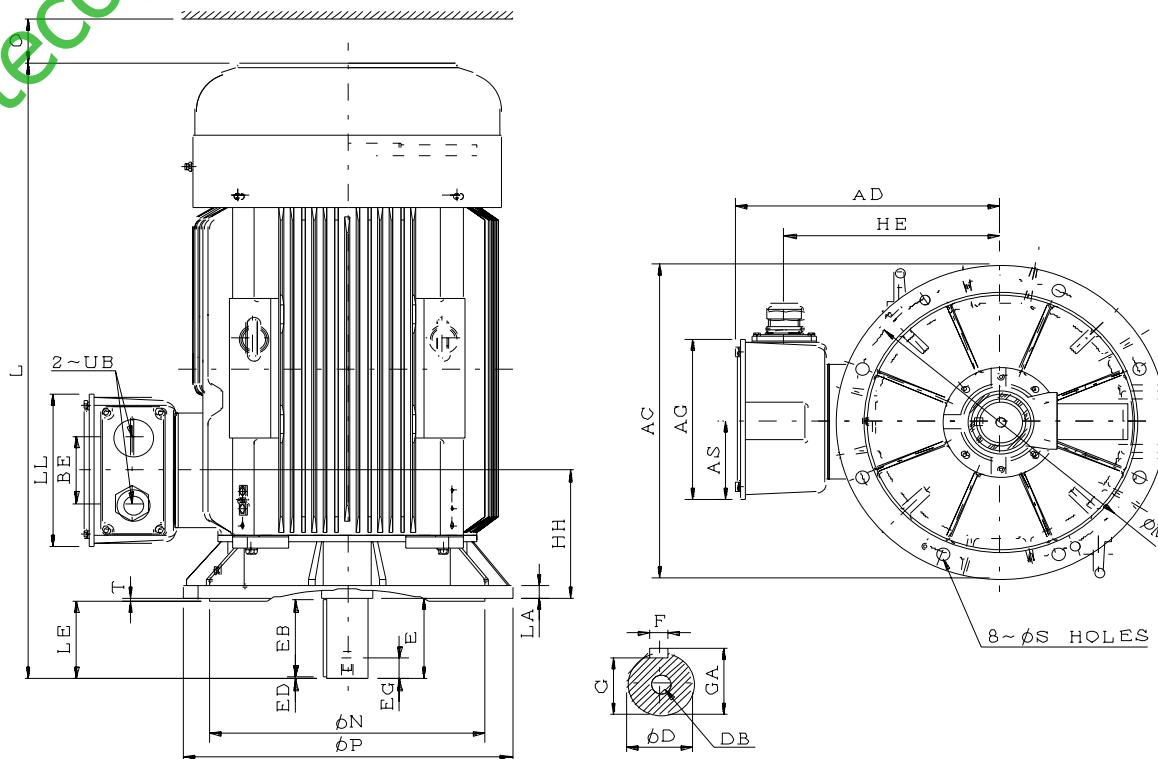
IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS

V1 (IM 3011) FRAME NOS. 280S ~ 355L

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Totally Enclosed Fan - Cooled Type, Squirrel - Cage Rotor.



Dimension in mm

Output (kW)			FRAME	FLANGE DIMENSION							AD	AC	AS	BE	HH	HE	AG	L	LL	O
2P	4P	6P		SIZE	P	N	LA	LE	M	S										
160 200	---	---	315LA	660	550	25	140	600	24	6	527	660	163	140	269	430	336	1366	322	-
---	160 200	110 132 (160)	315LB	660	550	25	170	600	24	6	527	660	163	140	269	430	336	1396	322	-

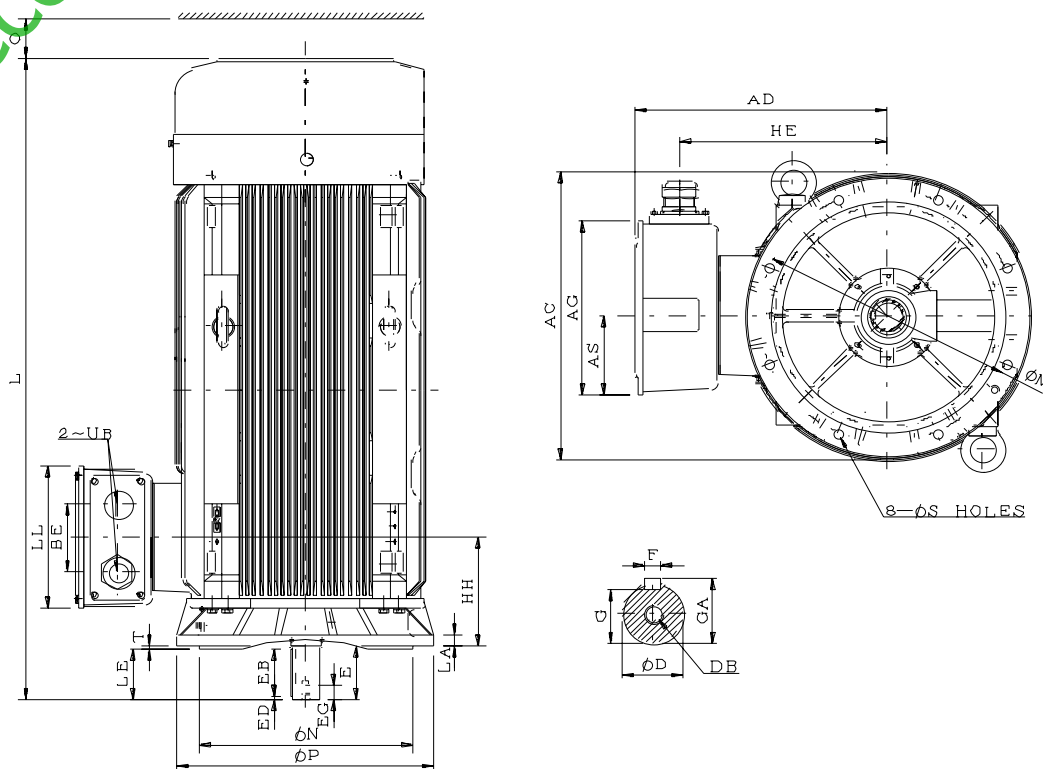
FRAME SIZE	UB	SHAFT EXTENSION									BEARING		APPROX.
		D	E	EB	ED	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	WEIGHT kgs
315LA	M63X1.5	65	140	125	7.5	40	18	58	69	M20	7316C3	6314C3	
315LB	M63X1.5	80	170	160	5	40	22	71	85	M20	6320C3	6316C3	

- Note :**
1. Tolerance of Shaft End Diameter D : m6
 2. Tolerance of Key Width F : h9
 3. Tolerance of N : js6
 4. Output In the Brackets for Optional Matching

APPD.	Ben Yang	25-Sep-12	<div>TECO Electric & Machinery Co., Ltd.</div> <div>Wuxi, China</div>	DWG NO.	
CHKD.	J.LIU	25-Sep-12		<div>3W049U369</div>	
DWN.	S.CAO	25-Sep-12		Rev. 00	3/5

ISSUED 25-Sep-12	OUTLINE DIMENSIONS SHEET IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS V1 (IM 3011) FRAME NOS. 280S ~ 355L	MODEL AEUV1H
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Totally Enclosed Fan - Cooled Type, Squirrel - Cage Rotor.



Dimension in mm

Output (kW)			FRAME SIZE	FLANGE DIMENSION							AD	AC	AS	BE	HH	HE	AG	L	LL	O
2P	4P	6P		P	N	LA	LE	M	S	T										
250	---	---	315DA	660	550	30	140	600	24	6	590	682	189	180	284	485	412	1674	372	-
---	250	200	315DB	660	550	30	170	600	24	6	590	682	189	180	284	485	412	1704	372	-

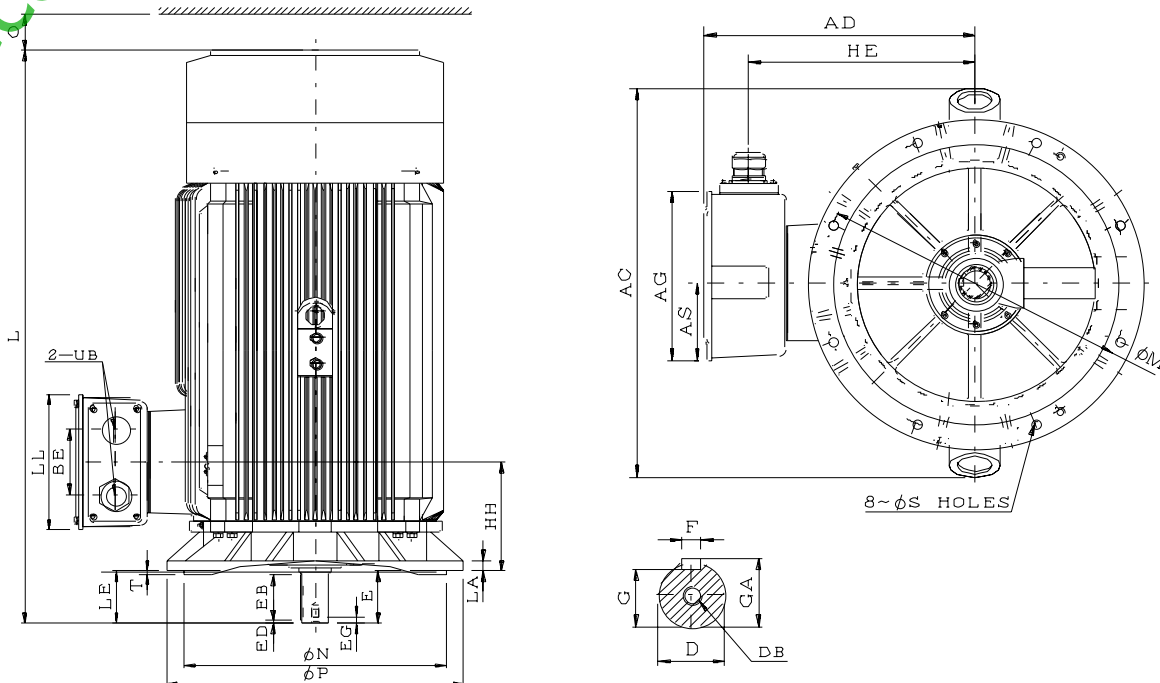
FRAME SIZE	UB	SHAFT EXTENSION								BEARING		APPROX. WEIGHT kgs
		D	E	EB	ED	EG	F	G	GA	DB	DRIVE END OPPOSITE DRIVE END	
315DA	M72X2	75	140	125	7.5	40	20	67.5	79.5	M20	7316C3 6316C3	
315DB	M72X2	95	170	160	5	48	25	86	100	M24	6322C3 6322C3	

- Note :**
1. Tolerance of Shaft End Diameter D : m6
 2. Tolerance of Key Width F : h9
 3. Tolerance of N : js6

APPD.	Ben Yang	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	J.LIU	25-Sep-12		3W049U369
DWN.	S.CAO	25-Sep-12		Rev. 00 4/5

ISSUED 25-Sep-12	OUTLINE DIMENSIONS SHEET IE2 EFFICIENCY 3-PHASE INDUCTION MOTORS V1 (IM 3011) FRAME NOS. 280S ~ 355L	MODEL AEUV1H
REVISED		PAGE 37 of 65

Totally Enclosed Fan - Cooled Type, Squirrel - Cage Rotor.



Dimension in mm

Output (kW)			FRAME SIZE	FLANGE DIMENSION							AD	AC	AS	BE	HH	HE	AG	L	LL	O
2P	4P	6P		P	N	LA	LE	M	S	T										
250	---	---	355MA	800	680	30	140	740	24	6	645	980	189	180	302	540	412	1575	372	-
---	250	200	355MB	800	680	30	170	740	24	6	645	980	189	180	302	540	412	1605	372	-
315	---	---	355LA	800	680	30	140	740	24	6	645	980	189	180	302	540	412	1575	372	-
---	315	250	355LB	800	680	30	170	740	24	6	645	980	189	180	302	540	412	1605	372	-

FRAME SIZE	UB	SHAFT EXTENSION								BEARING		APPROX. WEIGHT kgs
		D	E	EB	ED	EG	F	G	GA	DB	DRIVE END OPPOSITE DRIVE END	
355MA	M72X2	75	140	125	7.5	40	20	67.5	79.5	M20	7318C3 6318C3	
355MB	M72X2	95	170	160	5	48	25	86	100	M24	7322C3 6322C3	
355LA	M72X2	75	140	125	7.5	40	20	67.5	79.5	M20	7318C3 6318C3	
355LB	M72X2	95	170	160	5	48	25	86	100	M24	7322C3 6322C3	

- Note :**
1. Tolerance of Shaft End Diameter D : m6
 2. Tolerance of Key Width F : h9
 3. In the Brackets for Optional Matching

APPD.	Ben Yang	25-Sep-12	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.
CHKD.	J.LIU	25-Sep-12		3W049U369
DWN.	S.CAO	25-Sep-12		Rev. 00 5/5