



EFFECTIVE :

REVISED : 17-Mar-15

# PRODUCT NOTE

MODEL : **TEV2**

TYPE : **AAEVB2 / AEUVB2**

GB18613-2012 ENERGY EFFICIENCY GRADE 2  
MARINE 3-PHASE INDUCTION MOTORS  
LOW VOLTAGE SQUIRREL CAGE TEFC  
FRAME NOS. : 80M ~ 355L

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APPD.	K.L.KUO	2-Mar-15	TECO Electric & Machinery Co., Ltd. Wuxi, China	DWG NO.	<b>32057R9496</b>
CHKD.	Chiwen CHEN	28-Feb-15		REV. 00	
DWN.	YINYIN.SHA	1-Feb-15		1/1	



ISSUED 1-Feb-15	<b>SPECIFICATION TABLE</b> MARINE 3-PHASE INDUCTION MOTORS LOW VOLTAGE SQUIRREL CAGE	TYPE <b>AAEVB2 / AEUVB2</b>
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ITEM		STANDARD SPECIFICATION		
R A T I O N G	Kind of Motors	Squirrel - Cage Induction Motors ( SCIM ) .		
	Design Standards	GB, IEC		
	Frequency And Voltages	50Hz 380V or 60HZ 440V.		
	Output Range	0.55 kW ~ 315 kW .		
	R.P.M. (Syn.)	3000 ~ 1000 R.P.M. ( 50Hz ) , 3600 ~ 1200 R.P.M. ( 60Hz ) ( 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 ) .		
Mounting	AAEVB2 : Horizontal Foot Mounted B3 ( IM 1001 ) . AEUVB2 : Horizontal Flange Mounted B5 ( IM 3001 ) . AAEVB2 : Horizontal Foot And Flange Mounted B35 ( IM 2001 ) . AEUVB2 : Vertical Flange Mounted , Shaft Down V1 ( IM 3011 ) .			
A P P L I C A T I O N	Environment Conditions	Place : Cabin , Non-Hazardous , Salt mist , Oil mist , Mildew , A Normal Impact and Vibration to Vessel During a Voyage . Ambient Temperature : -25°C ~ 50°C , Altitude : Sea Level , Relative Humidity : Less Than 95%RH ( Dewiness ) , Inclination and Swing : Inclination $\pm 22.5^\circ$ , Swing $\pm 22.5^\circ$ .		
	Power Source Conditions	Voltage : $\pm 10\%$ , Frequency : $\pm 5\%$ , and 10% Max. of Combined Voltage and Frequency. But Frequency Variation Does Not Exceed $\pm 5\%$ .		
	Method of Starting	Full Voltage Direct on Line or Y - $\Delta$ Starting .		
	Drive Method	Belt Service , However , 2 Pole 45 kW and Up , 4 & 6 Pole F# 280 and Above Coupling Service is the Way .		
	Direction of Rotation	CW According to IEC Definition, Suitable for Bi - Directional Operation .		
C O N S T R U C T I O N	Dimensions	Mounting	Frame Nos.	DWG No.
		IM B3	80M ~ 355L	32057R9498
		IM B5	80M ~ 280M	32057R9499
		IM B35	80M ~ 355L	32057R9500
		IM V1	80M ~ 355L	32057R9501
	Frame	High Grade Cast Iron .		
	End Bracket	High Grade Cast Iron .		
	External Fan	Aluminum		

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CHKD.	Chiwen CHEN	28-Feb-15		REV. 00	
DWN.	YINYIN.SHA	1-Feb-15		1/3	

ISSUED		SPECIFICATION TABLE		TYPE		
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REVISED		MARINE 3-PHASE INDUCTION MOTORS LOW VOLTAGE SQUIRREL CAGE		PAGE		
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ITEM		STANDARD SPECIFICATION				
C O N S T R U C T I O N	Fan Cover	Pressed - Steel Plate .				
	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 , MULTEMP SRL For Frame Nos. 80M ~ 250M , SRI - 2 For Frame Nos. 280S ~ 355L .				
	Lead Terminal	6 Leads, with Solderless Lug Terminals .				
	Shaft Flinger	End Bracket : V - Ring Flange : Oil Seal F#225 and Above : Oil Seal 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 Connected from Four Possible Directions .				
	Cable Gland	High Sealed Cable Gland Used at the Cable Entrance .				
	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, and Red Varnish Spray on Both Coil End .				
	Rotor Winding	Squirrel Cage, Aluminium Conductor with End - Ring and Wafer Blades Integrally Cast Surface Coated with Red Varnish .				
	Painting	Phenolic Rust Proof Base Plus Lacquer Surface Finished Painting in Purple - Blue Color ( Munsell 5PB 3/8 ) .				
	Name Plate	Stainless Steel Plate .				
	Bolt Thread	ISO Metric System .				
Grounding Terminal	Two Terminals . One inside The Terminal Box, Another One on The Outside of Frame .					
APPD.	K.L.KUO	2-Mar-15	TECO Electric & Machinery Co., Ltd. Wuxi, China		DWG NO.	
CHKD.	Chiwen CHEN	28-Feb-15			32057R9497	
DWN.	YINYIN.SHA	1-Feb-15			REV. 00	

ISSUED		<h1 style="text-align: center;">SPECIFICATION TABLE</h1> <h2 style="text-align: center;">MARINE 3-PHASE INDUCTION MOTORS LOW VOLTAGE SQUIRREL CAGE</h2>					TYPE	
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ITEM			STANDARD SPECIFICATION					
P E R F O R M A N C E	Test Procedure		GB/T 1032 Method B, IEC 60034-2-1 : 2007 And Full Voltage Measuring Starting Performance .					
	Typical Performance		As DWG NO. 32057R9494 ( 50Hz / 380V ) , 32057R9495 ( 60Hz / 440V ) .					
	Winding Temperature Rise		Not To Exceed 90°C Rise By Resistance Method at S.F. 1.0 .					
	Over Speed		120% Syn. R.P.M. for 2 Min .					
	Over Torque		160% Rated Torque for 15 Sec .					
	Vibration ( r.m.s )		Vibration grade	Shaft height / mm	80 ≤ H ≤ 132	132 < H ≤ 280	280 < H ≤ 400	
Mounting				Velocity mm/s	Velocity mm/s	Velocity mm/s		
A			Free suspension	1.6	2.2	2.8		
			Rigid mounting	1.3	1.8	2.3		
APPD.	K.L.KUO	2-Mar-15	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>				DWG NO.	
CHKD.	Chiwen CHEN	28-Feb-15					<b>32057R9497</b>	
DWN.	YINYIN.SHA	1-Feb-15					REV. 00	



ISSUED 15-Jan-15	<h1>PERFORMANCE DATA</h1>	TYPE <b>AEVB2 / AEVB2</b>
REVISED	3-PHASE INDUCTION MOTORS LOW VOLTAGE SQUIRREL CAGE	PAGE 4 of 67

TEFC, CLASS F, 50°C AMBIENT TEMP.  
IEC DESIGN N CONTINUOUS DUTY  
S.F. 1.0, 380V 50Hz

IE3

( 2 Pole ) **TYPICAL PERFORMANCE** ( 380 V )

OUTPUT		FULL LOAD rpm	FRAME NO.	EFFICIENCY			POWER FACTOR			CURRENT		TORQUE				ROTOR GD <sup>2</sup> kg-m <sup>2</sup>	NOISE SOUND POWER NO-LOAD dB(A)	APPROX. WEIGHT kg
kW	hp			FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (A)	LOCKED ROTOR %FLC	FULL LOAD kg-m	LOCKED ROTOR %FLT	PULL UP %FLT	BREAK DOWN %FLT			
0.75	1	2875	80M	80.7	78.3	75.1	84.5	78.0	66.5	1.67	780	0.254	280	275	335	0.006	78	18.0
1.1	1.5	2870	80M	82.7	83.0	81.3	85.0	78.5	66.5	2.38	800	0.373	300	295	350	0.007	78	19.5
1.5	2	2850	90S	84.2	85.4	85.8	90.5	87.0	78.0	2.99	800	0.512	220	210	280	0.012	78	25.5
2.2	3	2860	90L	85.9	86.7	86.8	89.5	85.0	75.5	4.35	850	0.748	245	235	315	0.014	78	29.0
3	4	2855	100L	87.1	88.3	88.4	90.0	86.5	78.5	5.81	880	1.022	325	310	355	0.025	82	41.5
4	5.5	2875	112M	88.1	89.0	88.9	91.0	87.5	80.0	7.58	950	1.354	270	250	360	0.046	83	51.5
5.5	7.5	2930	132S	89.2	89.8	89.5	88.5	86.0	79.5	10.6	800	1.826	205	205	340	0.075	85	73.0
7.5	10	2920	132S	90.1	90.9	90.8	87.0	84.5	77.5	14.5	725	2.499	195	195	315	0.081	85	76.0
11	15	2935	160M	91.2	92.0	92.0	90.0	89.0	83.5	20.4	775	3.647	230	185	285	0.183	87	130
15	20	2935	160M	91.9	92.0	92.0	89.0	85.5	77.5	27.9	870	4.973	275	230	330	0.205	87	130
18.5	25	2930	160L	92.4	93.0	93.0	90.0	89.5	84.0	33.8	810	6.144	245	200	295	0.237	87	140
22	30	2940	180M	92.7	92.7	92.5	87.0	85.0	77.0	41.4	760	7.281	225	180	275	0.283	88	180
30	40	2950	200L	93.3	93.5	92.5	90.0	90.0	86.5	54.3	775	9.895	200	145	270	0.602	90	265
37	50	2955	200L	93.7	94.5	94.0	91.0	90.5	87.0	65.9	815	12.18	195	145	280	0.753	90	300
45	60	2960	225M	94.0	94.0	93.5	91.0	91.0	88.0	79.9	810	14.79	150	140	290	1.187	92	340
55	75	2970	250M	94.3	94.5	94.0	91.5	90.0	86.5	96.8	800	18.02	150	130	315	1.544	92	465
75	100	2965	280S	94.7	94.5	93.0	91.0	90.0	85.5	132	725	24.65	150	130	240	2.400	94	670
90	125	2970	280M	95.0	95.0	94.6	90.5	89.0	83.0	159	730	29.53	150	135	240	2.800	94	715
110	150	2970	315S	95.2	95.0	94.3	90.5	89.0	85.0	194	725	36.09	150	125	240	4.800	98	890
132	175	2970	315M	95.4	95.2	94.8	91.0	90.5	88.0	231	685	43.31	130	120	230	5.200	98	980
160	215	2970	315L	95.6	95.5	94.5	90.5	89.0	85.0	281	710	52.50	140	115	240	5.200	98	1075
200	270	2970	315L	95.8	95.6	94.6	90.5	90.0	88.0	350	700	65.62	140	115	240	6.400	98	1340
250	335	2975	355M	95.8	95.6	94.6	91.0	90.5	88.5	436	700	81.89	140	115	240	10.80	100	1870
315	422	2975	355L	95.8	95.6	94.7	91.5	91.0	89.0	546	710	103.2	140	115	240	14.00	100	2060

NOTE :

1. The above are typical values based on test according to GB/T 1032 method B, IEC 60034-2-1:2007.
2. Breakdown & Locked rotor torques are shown as average expected values.
3. Efficiency, power factor, speed and torque are the same for other voltages.  
Current values vary inversely with voltage.
4. Tolerance According to GB755 & IEC 60034-1 .
5. Noise: sound power level at no-load, dB(A), Tolerance+3dB(A).
6. Data subject to change without notice.

APPD.	Chiwen CHEN	28-Feb-15	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	32057R9294
CHKD.	Chiwen CHEN	28-Feb-15		Rev. 00	
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ISSUED 15-Jan-15	<b>PERFORMANCE DATA</b>	TYPE <b>AAEVB2 / AEUVB2</b>
REVISED	3-PHASE INDUCTION MOTORS LOW VOLTAGE SQUIRREL CAGE	PAGE 5 of 67

TEFC, CLASS F, 50°C AMBIENT TEMP.  
IEC DESIGN N CONTINUOUS DUTY  
S.F. 1.0, 380V 50Hz

**IE3**

( 4 Pole ) **TYPICAL PERFORMANCE** ( 380 V )

OUTPUT		FULL LOAD	FRAME NO.	EFFICIENCY			POWER FACTOR			CURRENT		TORQUE				ROTOR GD <sup>2</sup>	NOISE SOUND POWER NO-LOAD	APPROX. WEIGHT
				FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (A)	LOCKED ROTOR %FLC	FULL LOAD kg-m	LOCKED ROTOR %FLT	PULL UP %FLT	BREAK DOWN %FLT			
kW	hp	rpm													kg-m <sup>2</sup>	dB(A)	kg	
0.55	0.75	1425	80M	79.0	77.9	74.7	69.0	58.5	44.5	1.53	620	0.376	300	270	320	0.010	66	17.5
0.75	1	1410	80M	82.5	81.8	79.7	73.5	64.0	50.0	1.88	640	0.518	315	290	335	0.013	66	20.5
1.1	1.5	1430	90S	84.1	84.4	83.2	79.5	71.5	57.5	2.50	720	0.748	255	205	290	0.019	66	26.5
1.5	2	1435	90L	85.3	84.1	82.2	75.0	65.5	51.5	3.56	760	1.017	300	235	335	0.023	66	28.5
2.2	3	1450	100L	86.7	87.3	86.9	81.0	73.5	60.5	4.76	735	1.476	200	160	270	0.045	70	39.5
3	4	1455	100L	87.7	87.7	86.2	78.0	70.5	57.5	6.66	780	2.006	250	240	335	0.052	70	42.0
4	5.5	1445	112M	88.6	88.4	87.9	82.0	76.5	65.5	8.37	720	2.693	245	205	280	0.083	72	53.0
5.5	7.5	1455	132S	89.6	90.4	90.3	85.0	80.5	70.0	11.0	740	3.678	245	200	300	0.132	75	75.5
7.5	10	1460	132M	90.4	90.8	90.4	84.5	79.5	69.0	14.9	780	4.998	270	225	330	0.172	75	93.0
11	15	1460	160M	91.4	92.0	91.5	84.0	80.0	70.0	21.8	775	7.331	230	185	270	0.366	77	130
15	20	1460	160L	92.1	92.5	92.5	84.5	81.0	71.0	29.3	810	9.997	250	195	285	0.460	77	150
18.5	25	1475	180M	92.6	94.0	93.0	81.5	77.0	69.5	37.2	765	12.20	215	160	255	0.704	80	195
22	30	1475	180L	93.0	93.5	93.0	81.0	77.0	71.0	44.4	750	14.51	190	145	245	0.789	80	205
30	40	1470	200L	93.6	94.5	94.5	86.0	84.5	77.0	56.6	830	19.86	250	205	280	1.451	83	285
37	50	1480	225S	93.9	94.5	94.0	85.5	82.0	73.0	70.0	760	24.33	210	175	300	1.896	84	350
45	60	1480	225M	94.2	94.5	94.0	84.5	79.5	70.0	85.9	735	29.58	210	175	290	1.979	84	360
55	75	1485	250M	94.6	94.6	94.0	87.5	84.5	77.0	101	785	36.04	210	185	265	3.911	85	480
75	100	1480	280S	95.0	95.0	94.2	89.0	87.5	82.0	135	710	49.25	160	135	250	6.400	88	650
90	125	1480	280M	95.2	95.0	94.5	88.5	87.0	81.0	162	715	59.26	180	150	250	7.200	88	710
110	150	1480	315S	95.4	95.2	94.8	88.5	86.5	81.0	198	725	72.43	160	135	250	11.60	94	1020
132	175	1480	315M	95.6	95.5	94.8	88.5	87.5	85.0	237	665	86.91	150	125	230	12.40	94	1040
160	215	1482	315L	95.8	95.6	94.6	88.5	87.0	83.0	287	680	105.2	130	105	230	11.60	94	1220
200	270	1485	315L	96.0	95.8	95.0	88.5	87.0	84.0	358	680	131.2	140	115	230	14.40	94	1380
250	335	1485	355M	96.0	95.8	95.0	89.0	88.0	84.5	445	690	164.1	140	115	230	27.20	95	1925
315	422	1485	355L	96	96	95.4	89	88	84.5	560	680	206.7	130	105	230	34.40	95	2156

NOTE : 1. The above are typical values based on test according to GB/T 1032 method B, IEC 60034-2-1:2007.  
 2. Breakdown & Locked rotor torques are shown as average expected values.  
 3. Efficiency, power factor, speed and torque are the same for other voltages.  
     Current values vary inversely with voltage.  
 4. Tolerance According to GB755 & IEC 60034-1 .  
 5. Noise: sound power level at no-load, dB(A), Tolerance+3dB(A).  
 6. Data subject to change without notice.  
 7. 0.55kW and below: Efficiency per TECO performance standard (Not IE3).

APPD.	Chiwen CHEN	28-Feb-15	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	<b>32057R9294</b>
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DWN.	HJJ SHAO FU	15-Jan-15		2/3	



ISSUED  
15-Jan-15

REVISED

# PERFORMANCE DATA

## 3-PHASE INDUCTION MOTORS LOW VOLTAGE SQUIRREL CAGE

TYPE  
**AAEVB2 / AEUVB2**

PAGE  
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TEFC, CLASS F, 50°C AMBIENT TEMP.  
IEC DESIGN N CONTINUOUS DUTY  
S.F. 1.0, 380V 50Hz

# IE3

( 6 Pole ) **TYPICAL PERFORMANCE** ( 380 V )

OUTPUT		FULL LOAD	FRAME NO.	EFFICIENCY			POWER FACTOR			CURRENT		TORQUE				ROTOR GD <sup>2</sup>	NOISE SOUND POWER NO-LOAD	APPROX. WEIGHT
				FULL LOAD	3/4 LOAD	1/2 LOAD	FULL LOAD	3/4 LOAD	1/2 LOAD	FULL LOAD	LOCKED ROTOR	FULL LOAD	LOCKED ROTOR	PULL UP	BREAK DOWN			
kW	hp	rpm	(%)	(%)	(%)	(%)	(%)	(%)	(A)	%FLC	kg-m	%FLT	%FLT	%FLT	kg-m <sup>2</sup>	dB(A)	kg	
0.55	0.75	905	80M	70.0	69.7	66.2	69.0	58.0	44.5	1.73	375	0.591	210	195	225	0.012	63	19.5
0.75	1	935	90S	78.9	80.6	79.4	71.0	62.5	49.0	2.03	470	0.780	205	190	225	0.022	63	28.0
1.1	1.5	930	90L	81.0	81.2	80.5	72.0	63.5	50.0	2.87	490	1.151	200	185	215	0.026	63	30.5
1.5	2	950	100L	82.5	82.9	81.5	72.5	65.0	52.0	3.81	500	1.536	200	175	225	0.058	64	43.5
2.2	3	960	112M	84.3	84.3	82.2	67.0	59.0	47.0	5.92	525	2.230	175	175	250	0.083	70	53.5
3	4	970	132S	85.6	86.1	85.1	79.5	73.0	60.0	6.70	660	3.009	175	170	300	0.154	73	75.0
4	5.5	970	132M	86.8	87.2	86.3	79.5	72.5	60.0	8.81	680	4.012	180	175	310	0.205	73	91.5
5.5	7.5	970	132M	88.0	88.0	86.2	73.5	65.5	52.0	12.9	720	5.517	210	205	345	0.216	73	91.0
7.5	10	970	160M	89.1	90.0	89.0	79.0	73.0	61.0	16.2	720	7.523	235	210	280	0.483	73	135
11	15	970	160L	90.3	91.0	90.5	78.0	72.0	60.5	23.7	755	11.03	295	255	285	0.628	73	150
15	20	970	180L	91.2	92.0	92.0	82.0	78.0	68.0	30.5	690	15.05	215	165	230	1.337	77	205
18.5	25	975	200L	91.7	92.5	92.5	80.5	76.0	66.5	38.1	720	18.46	220	185	240	1.829	80	270
22	30	975	200L	92.2	93.0	93.5	81.5	77.0	68.0	44.5	720	21.95	210	185	240	2.078	80	290
30	40	980	225M	92.9	93.5	93.5	83.5	80.0	76.5	58.8	600	29.79	200	160	215	3.023	80	385
37	50	980	250M	93.3	94.0	94.0	85.0	81.5	75.0	70.9	730	36.74	230	200	250	4.194	82	460
45	60	980	280S	93.7	93.7	93.0	85.0	82.0	73.5	85.8	650	44.75	140	125	230	7.600	85	615
55	75	980	280M	94.1	94.0	93.5	85.0	82.0	74.0	104	645	54.69	150	125	240	9.600	85	730
75	100	985	315S	94.6	94.5	93.7	84.5	81.5	73.0	143	665	74.20	160	135	240	14.80	89	905
90	125	985	315M	94.9	94.9	94.2	85.0	82.5	75.0	170	640	89.04	160	130	230	16.80	89	1010
110	150	985	315L	95.2	95.0	94.2	84.5	82.0	75.0	208	665	108.8	150	125	230	18.80	89	1160
132	175	985	315L	95.4	95.4	94.3	84.5	82.5	75.0	249	645	130.6	140	115	230	20.40	89	1345
160	215	985	355M	95.6	95.5	94.5	84.5	82.5	75.0	301	660	158.3	140	115	230	31.60	94	1870
200	270	985	355M	95.8	95.5	94.6	85.0	83.0	77.5	373	655	197.9	150	125	240	40.80	94	2090
250	335	985	355L	95.8	95.6	94.8	85.5	83.5	78.0	464	660	247.3	150	125	230	46.00	94	2290

NOTE : 1. The above are typical values based on test according to GB/T 1032 method B, IEC 60034-2-1:2007.  
 2. Breakdown & Locked rotor torques are shown as average expected values.  
 3. Efficiency, power factor, speed and torque are the same for other voltages.  
     Current values vary inversely with voltage.  
 4. Tolerance According to GB755 & IEC 60034-1 .  
 5. Noise: sound power level at no-load, dB(A), Tolerance+3dB(A).  
 6. Data subject to change without notice.  
 7. 0.55kW and below: Efficiency per TECO performance standard (Not IE3).

APPD.	Chiwen CHEN	28-Feb-15	<b>TECO Electric &amp; Machinery Co., Ltd.</b>  <b>Wuxi, China</b>	DWG NO.	<span style="font-size: 1.5em; color: blue;"><b>32057R9294</b></span>
CHKD.	Chiwen CHEN	28-Feb-15		Rev. 03	
DWN.	HJJ SHAOFU	15-Jan-15		3/3	



ISSUED 15-Jan-15	<b>PERFORMANCE DATA</b>  3-PHASE INDUCTION MOTORS LOW VOLTAGE SQUIRREL CAGE	TYPE <b>AAEVB2 / AEUVB2</b>
REVISED		PAGE 7 of 67

TEFC, CLASS F, 50°C AMBIENT TEMP.  
IEC DESIGN N CONTINUOUS DUTY  
50Hz 380V WINDING USED AT 60Hz 440V

( 2 Pole ) **TYPICAL PERFORMANCE** ( 440 V )

OUTPUT		FULL LOAD rpm	FRAME NO.	EFFICIENCY			POWER FACTOR			CURRENT		TORQUE				ROTOR GD <sup>2</sup> kg-m <sup>2</sup>	NOISE SOUND POWER NO-LOAD dB(A)	APPROX. WEIGHT kg
kW	hp			FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (A)	LOCKED ROTOR %FLC	FULL LOAD kg-m	LOCKED ROTOR %FLT	PULL UP %FLT	BREAK DOWN %FLT			
0.86	1.15	3480	80M	81.6	80.5	76.7	84.0	78.0	67.0	1.65	890	0.240	295	285	370	0.006	81	18.0
1.27	1.70	3470	80M	84.0	83.9	81.6	85.5	79.5	68.0	2.32	855	0.356	320	310	365	0.007	81	19.5
1.73	2.32	3455	90S	85.5	86.7	86.5	90.0	86.0	77.5	2.95	815	0.487	295	210	300	0.012	81	25.5
2.53	3.39	3460	90L	86.5	87.4	87.0	89.5	85.5	76.5	4.29	930	0.711	320	235	315	0.014	81	29.0
3.45	4.62	3500	100L	88.5	88.7	87.5	88.5	85.0	76.0	5.78	935	0.958	165	165	335	0.025	85	41.5
4.60	6.17	3470	112M	89.5	90.2	89.9	91.5	88.5	81.5	7.37	965	1.291	255	250	325	0.046	86	51.5
6.33	8.50	3525	132S	89.5	89.5	88.3	85.0	81.0	72.5	10.9	695	1.750	220	155	255	0.075	88	73.0
8.60	11.5	3520	132S	90.2	90.7	90.2	87.5	85.5	79.0	14.3	730	2.371	210	200	300	0.081	88	76.0
12.7	17.0	3545	160M	91.0	90.5	89.1	91.5	89.5	84.5	20.0	810	3.481	230	180	265	0.183	90	130
17.3	23.0	3545	160M	91.0	91.4	90.8	92.0	90.5	85.0	27.1	895	4.709	300	225	350	0.205	90	130
21.3	28.5	3540	160L	91.7	92.0	91.7	93.0	91.5	88.0	32.8	910	5.844	270	190	345	0.237	90	140
25.3	34.0	3540	180M	91.7	92.0	91.3	90.5	86.0	79.0	40.0	810	6.972	250	200	300	0.283	91	180
34.5	46.0	3545	200L	93.0	92.9	92.0	91.0	90.5	88.0	53.5	780	9.419	200	160	220	0.602	93	265
42.6	57.0	3550	200L	93.6	93.8	93.6	91.0	91.0	88.0	65.6	810	11.65	205	150	255	0.753	93	300
51.8	69.5	3560	225M	93.6	93.6	92.8	93.0	93.0	92.5	78.1	830	14.17	180	175	300	1.187	95	340
63.0	84.5	3565	250M	93.6	93.9	93.3	92.5	92.0	88.5	95.5	810	17.20	210	160	300	1.544	95	465
86.0	115	3568	280S	94.5	94.5	93.8	90.7	89.5	84.0	132	765	23.49	190	170	270	2.400	97	670
104	139	3570	280M	95.0	94.8	93.8	91.0	89.5	84.5	158	810	28.39	205	175	280	2.800	97	715
127	170	3575	315S	95.2	95.1	94.0	91.5	90.5	86.0	191	735	34.62	130	110	300	4.800	101	890
152	204	3575	315M	95.6	95.5	94.5	92.0	91.0	87.0	227	760	41.43	140	120	300	5.200	101	980
184	247	3576	315L	95.8	95.7	94.8	92.0	91.2	87.5	274	770	50.14	150	130	300	5.200	101	1075
230	308	3576	315L	95.8	95.8	95.0	92.2	91.5	88.0	342	740	62.68	150	130	285	6.400	101	1340
288	385	3580	355M	95.8	95.7	94.8	92.5	91.2	87.0	426	765	78.39	150	130	300	10.80	103	1870
362	485	3580	355L	96.0	95.8	94.9	92.5	91.5	88.0	535	745	98.54	145	125	280	14.00	103	2060

- NOTE :
- The above are typical values based on test according to GB/T 1032 method B, IEC 60034-2-1:2007.
  - Breakdown & Locked rotor torques are shown as average expected values.
  - Efficiency, power factor, speed and torque are the same for other voltages.  
Current values vary inversely with voltage.
  - Tolerance According to GB755 & IEC 60034-1.
  - Noise: sound power level at no-load, dB(A), Tolerance+3dB(A).
  - Data subject to change without notice.

APPD.	Chiwen CHEN	28-Feb-15	<b>TECO Electric &amp; Machinery Co., Ltd.</b>  <b>Wuxi, China</b>	DWG NO.	<b>32057R9295</b>
CHKD.	Chiwen CHEN	28-Feb-15		Rev. 00	
DWN.	HJJ SHAO FU	15-Jan-15		1/3	





ISSUED 15-Jan-15	<b>PERFORMANCE DATA</b>  3-PHASE INDUCTION MOTORS LOW VOLTAGE SQUIRREL CAGE	TYPE <b>AAEEVB2 / AEUVB2</b>
REVISED		PAGE 8 of 67

TEFC, CLASS F, 50°C AMBIENT TEMP.  
IEC DESIGN N CONTINUOUS DUTY  
50Hz 380V WINDING USED AT 60Hz 440V

( 4 Pole ) **TYPICAL PERFORMANCE** ( 440 V )

OUTPUT		FULL LOAD rpm	FRAME NO.	EFFICIENCY			POWER FACTOR			CURRENT		TORQUE				ROTOR GD <sup>2</sup> kg-m <sup>2</sup>	NOISE SOUND POWER NO-LOAD dB(A)	APPROX. WEIGHT kg
kW	hp			FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (A)	LOCKED ROTOR %FLC	FULL LOAD kg-m	LOCKED ROTOR %FLT	PULL UP %FLT	BREAK DOWN %FLT			
0.63	0.84	1725	80M	80.0	78.8	74.3	70.0	62.5	48.0	1.48	640	0.353	325	295	355	0.010	69	17.5
0.86	1.15	1710	80M	84.0	83.6	81.4	74.0	65.0	51.0	1.82	690	0.488	370	340	355	0.013	69	20.5
1.27	1.70	1730	90S	85.5	86.1	84.6	78.0	70.5	57.5	2.50	710	0.713	250	195	300	0.019	69	26.5
1.73	2.32	1735	90L	85.5	85.7	83.9	75.5	67.0	53.0	3.52	745	0.971	280	220	330	0.023	69	28.5
2.53	3.39	1760	100L	88.5	88.1	86.9	74.5	65.5	52.0	5.04	850	1.398	245	195	350	0.045	73	39.5
3.45	4.62	1750	100L	88.5	88.5	87.1	79.5	72.5	60.0	6.43	815	1.916	225	220	340	0.052	73	42.0
4.60	6.17	1740	112M	88.5	89.2	88.8	82.0	77.5	67.0	8.32	715	2.574	220	175	300	0.083	75	53.0
6.33	8.50	1755	132S	91.7	92.1	91.9	85.5	81.0	71.0	10.6	775	3.516	255	205	330	0.132	78	75.5
8.60	11.5	1755	132M	91.7	92.3	92.2	85.5	82.0	72.5	14.4	735	4.756	250	250	355	0.172	78	93.0
12.7	17.0	1765	160M	92.4	93.2	93.4	87.0	83.5	76.0	20.7	770	6.991	255	215	295	0.366	80	130
17.3	23.0	1765	160L	92.5	93.1	93.2	87.5	84.5	77.0	28.0	810	9.459	280	215	360	0.460	80	150
21.3	28.5	1770	180M	93.6	94.0	93.5	82.5	79.0	71.0	36.2	765	11.69	230	225	355	0.704	83	195
25.3	34.0	1770	180L	93.6	94.0	93.5	82.0	79.0	71.0	43.3	750	13.94	235	230	355	0.789	83	205
34.5	46.0	1770	200L	94.1	94.5	94.3	89.0	87.0	81.5	54.1	795	18.86	210	195	300	1.451	86	285
42.6	57.0	1780	225S	94.5	94.7	94.1	86.0	83.0	75.5	68.8	775	23.24	210	190	310	1.896	87	350
51.8	69.5	1775	225M	94.5	94.5	94.1	86.0	83.5	76.5	83.6	775	28.42	235	200	295	1.979	87	360
63.0	84.5	1780	250M	95.0	95.0	94.2	88.0	85.5	78.5	98.9	800	34.46	240	205	300	3.911	88	480
86.0	115	1780	280S	95.4	95.4	94.0	89.0	87.5	82.5	133	715	47.08	200	170	270	6.400	91	650
104	139	1782	280M	95.4	95.4	94.1	89.2	88.0	82.8	160	740	56.87	210	180	280	7.200	91	710
127	170	1785	315S	95.6	95.5	94.2	89.3	88.0	83.0	195	785	69.33	200	170	280	11.60	97	1020
152	204	1785	315M	96.0	95.8	94.8	89.5	88.2	84.0	232	800	82.98	205	175	280	12.40	97	1040
184	247	1785	315L	96.2	96.0	95.0	89.8	88.5	85.0	279	780	100.5	200	170	270	11.60	97	1220
230	308	1786	315L	96.2	96.1	95.1	90.0	89.0	85.1	349	805	125.5	210	180	270	14.40	97	1380
288	385	1788	355M	96.2	96.0	94.8	89.0	85.8	79.0	441	795	157.0	220	190	310	27.20	98	1925
362	485	1788	355L	96.2	96.1	95.0	89.5	88.0	83.0	552	685	197.3	200	170	260	34.40	98	2156

NOTE : 1. The above are typical values based on test according to GB/T 1032 method B, IEC 60034-2-1:2007.  
 2. Breakdown & Locked rotor torques are shown as average expected values.  
 3. Efficiency, power factor, speed and torque are the same for other voltages.  
 Current values vary inversely with voltage.  
 4. Tolerance According to GB755 & IEC 60034-1.  
 5. Noise: sound power level at no-load, dB(A), Tolerance+3dB(A).  
 6. Data subject to change without notice.

APPD.	Chiwen CHEN	28-Feb-15	<b>TECO Electric &amp; Machinery Co., Ltd.</b>  <b>Wuxi, China</b>	DWG NO.	<b>32057R9295</b>
CHKD.	Chiwen CHEN	28-Feb-15		Rev. 00	
DWN.	HJJ SHAO FU	15-Jan-15		2/3	



ISSUED  
15-Jan-15  
REVISED

# PERFORMANCE DATA

## 3-PHASE INDUCTION MOTORS LOW VOLTAGE SQUIRREL CAGE

TYPE  
**AAEVB2 / AEUVB2**  
PAGE  
9 of 67

**TEFC, CLASS F, 50°C AMBIENT TEMP.  
IEC DESIGN N CONTINUOUS DUTY  
50Hz 380V WINDING USED AT 60Hz 440V**

( 6 Pole ) **TYPICAL PERFORMANCE** ( 440 V )

OUTPUT		FULL LOAD rpm	FRAME NO.	EFFICIENCY			POWER FACTOR			CURRENT		TORQUE				ROTOR GD <sup>2</sup> kg-m <sup>2</sup>	NOISE SOUND POWER NO-LOAD dB(A)	APPROX. WEIGHT kg
kW	hp			FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (A)	LOCKED ROTOR %FLC	FULL LOAD kg-m	LOCKED ROTOR %FLT	PULL UP %FLT	BREAK DOWN %FLT			
0.63	0.84	1110	80M	76.0	76.4	73.5	66.5	57.0	44.0	1.64	450	0.549	210	205	240	0.012	66	19.5
0.86	1.15	1140	90S	82.5	83.8	82.7	70.5	62.0	48.5	1.94	540	0.732	195	170	250	0.022	66	28.0
1.27	1.70	1130	90L	82.5	83.3	82.6	72.0	64.0	50.5	2.81	485	1.092	185	165	235	0.026	66	30.5
1.73	2.32	1160	100L	83.0	81.9	78.2	76.0	68.5	56.0	3.60	695	1.452	210	145	270	0.058	67	43.5
2.53	3.39	1155	112M	86.5	86.5	84.7	67.5	60.0	48.0	5.69	515	2.130	165	160	270	0.083	73	53.5
3.45	4.62	1170	132S	89.5	88.8	87.1	80.0	74.0	61.5	6.32	665	2.866	170	140	285	0.154	76	75.0
4.60	6.17	1170	132M	90.0	89.8	88.5	78.5	72.0	60.0	8.54	700	3.828	190	170	290	0.205	76	91.5
6.33	8.50	1165	132M	90.0	90.2	89.2	80.5	74.5	63.0	11.5	690	5.296	190	175	295	0.216	76	91.0
8.60	11.5	1165	160M	91.0	91.3	90.5	82.0	77.0	67.5	15.1	820	7.165	285	255	300	0.483	76	135
12.7	17.0	1170	160L	91.0	91.4	90.8	80.5	75.5	65.0	22.7	815	10.55	280	265	300	0.628	76	150
17.3	23.0	1165	180L	91.7	92.3	92.6	83.5	80.5	73.0	29.6	720	14.33	225	200	280	1.337	80	205
21.3	28.5	1175	200L	93.0	93.4	93.3	82.0	78.0	69.5	36.6	770	17.61	255	195	260	1.829	83	270
25.3	34.0	1175	200L	93.0	93.5	93.5	82.0	79.0	71.0	43.5	770	21.00	245	190	250	2.078	83	290
34.5	46.0	1175	225M	93.0	93.7	93.7	87.0	86.0	81.0	56.0	635	28.42	175	120	210	3.023	83	385
42.6	57.0	1180	250M	94.1	94.3	94.0	87.5	86.0	80.0	67.9	770	35.06	220	195	250	4.194	85	460
51.8	69.5	1185	280S	94.5	94.5	93.5	85.5	83.0	76.0	84.1	680	42.60	190	170	270	7.600	88	615
63.0	84.5	1186	280M	94.6	94.5	93.5	85.0	81.5	73.0	103	745	51.76	215	185	305	9.600	88	730
86.0	115	1186	315S	95.0	95.0	93.8	85.5	83.0	76.0	139	685	70.66	200	170	245	14.80	92	905
104	140	1187	315M	95.4	95.2	94.0	85.5	83.2	76.0	167	690	85.38	210	180	250	16.80	92	1010
127	170	1188	315L	95.8	95.6	94.1	85.2	82.5	74.0	204	740	104.2	230	200	270	18.80	92	1160
152	204	1188	315L	95.8	95.8	94.6	85.6	83.2	75.8	243	690	124.7	230	200	250	20.40	92	1345
184	247	1189	355M	95.9	95.9	94.8	85.7	83.2	75.8	294	695	150.8	170	150	270	31.60	97	1870
230	308	1189	355M	96.0	95.9	94.9	85.7	82.8	74.5	367	720	188.5	185	165	285	40.80	97	2090
288	385	1190	355L	96.0	96.0	95.0	86.0	84.0	77.5	458	695	234.8	170	150	270	46.00	97	2290

NOTE : 1. The above are typical values based on test according to GB/T 1032 method B, IEC 60034-2-1:2007.  
 2. Breakdown & Locked rotor torques are shown as average expected values.  
 3. Efficiency, power factor, speed and torque are the same for other voltages.  
 Current values vary inversely with voltage.  
 4. Tolerance According to GB755 & IEC 60034-1.  
 5. Noise: sound power level at no-load, dB(A), Tolerance+3dB(A).  
 6. Data subject to change without notice.

APPD.	Chiwen CHEN	28-Feb-15	<b>TECO Electric &amp; Machinery Co., Ltd.</b>	<b>Wuxi, China</b>	DWG NO.	<b>32057R9295</b>
CHKD.	Chiwen CHEN	28-Feb-15			Rev. 00	
DWN.	HJJ SHAO FU	15-Jan-15			3/3	



ISSUED  
26-Jun-14  
REVISED

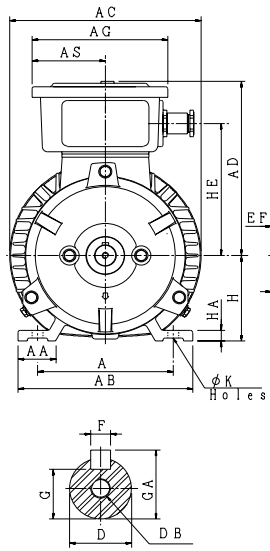
# OUTLINE DIMENSIONS SHEET

## MARINE 3-PHASE INDUCTION MOTORS

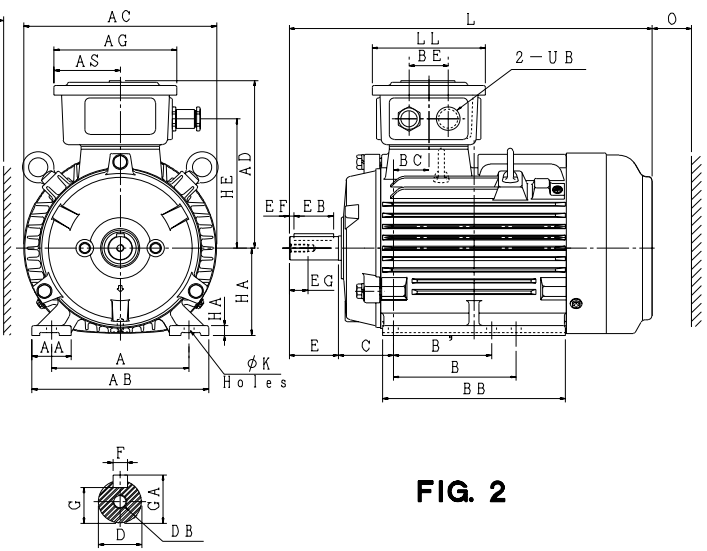
### B3 (IM 1001) FRAME NOS. 80M ~ 112M

TYPE  
**AEEVB2**  
PAGE  
10 of 67

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



**FIG. 1**



**FIG. 2**

Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	A	AA	AB	AC	AD	AG	AS	B	B'	BB	BC	BE	C	H	HA	HE	K
2P	4P	6P	---			A	AA	AB	AC	AD	AG	AS	B	B'	BB	BC	BE	C	H	HA	HE	K
0.75	0.55	0.55	---	80M	1	125	34.5	161	177	163	125	67.5	100	---	137	18.5	40	50	80	10	123.5	10
1.1	0.75	---	---																			
1.5	1.1	0.75	---	90S	2	140	40	180	197	173	125	67.5	100	---	161	36	40	56	90	10	133.5	10
2.2	1.5	1.1	---	90L		140	40	180	197	173	125	67.5	125	100	186	36	40	56	90	10	133.5	10
3	2.2	1.5	---	100L		160	40	200	219	193	147	78.5	140	---	181	21	50	63	100	12	157	12
---	3	---	---																			
4	4	2.2	---	112M		190	45	235	235	200.5	147	78.5	140	---	186	28	50	70	112	13	164.5	12

FRAME SIZE	L	LL	O	UB (CG-PF)	SHAFT EXTENSION								BEARING		
					D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
80M	293	115	40	G3/4"	19	40	32	4	16	6	15.5	21.5	M6	6204ZZ	6204ZZ
90S	344.5	115	40	G3/4"	24	50	40	5	19	8	20	27	M8	6205ZZ	6205ZZ
90L	369.5	115	40	G3/4"	24	50	40	5	19	8	20	27	M8	6205ZZ	6205ZZ
100L	392	125	50	G3/4"	28	60	50	5	22	8	24	31	M10	6206ZZ	6206ZZ
112M	412.5	125	50	G3/4"	28	60	50	5	22	8	24	31	M10	6306ZZ	6306ZZ

**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.

APPD.	K.L.KUO	26-Jun-14
CHKD.	SHITOU	26-Jun-14
DWN.	YINYIN.SHA	26-Jun-14

**TECO Electric & Machinery Co., Ltd.**  
**Wuxi, China**

DWG NO.  
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# OUTLINE DIMENSIONS SHEET

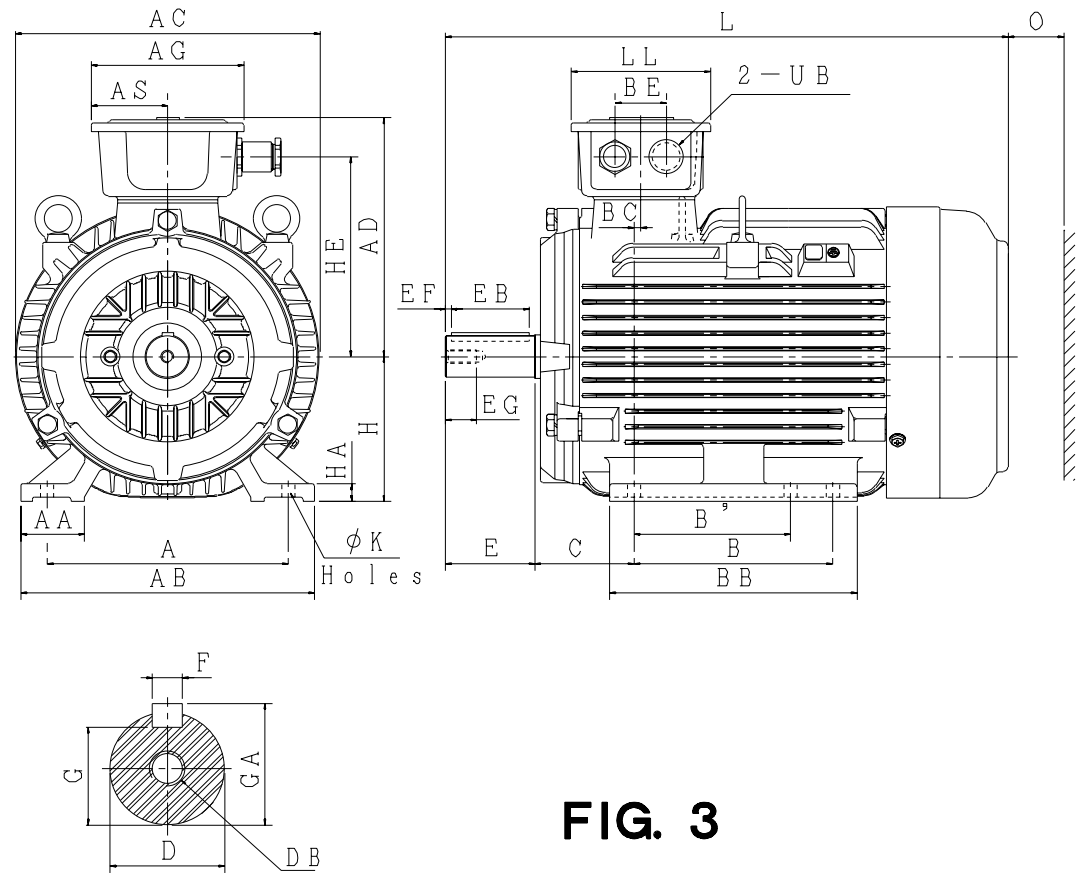
## MARINE 3-PHASE INDUCTION MOTORS

### B3 (IM 1001) FRAME NOS. 132S ~ 132M

TYPE  
**AEVB2**

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



**FIG. 3**

Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	A	AA	AB	AC	AD	AG	AS	B	B'	BB	BC	BE	C	H	HA	HE	K	L
2P	4P	6P	---			216	57	263	273	218	147	78.5	140	---	184	6	50	89	132	16	182	12	466
5.5	5.5	3	---	132S	3	216	57	263	273	218	147	78.5	140	---	184	6	50	89	132	16	182	12	466
7.5	---	---	---			216	57	263	273	218	147	78.5	178	140	222	6	50	89	132	16	182	12	504
---	7.5	4	---	132M		216	57	263	273	218	147	78.5	178	140	222	6	50	89	132	16	182	12	504
---	---	5.5	---			216	57	263	273	218	147	78.5	178	140	222	6	50	89	132	16	182	12	504

FRAME SIZE	LL	O	UB (CG-PF)	SHAFT EXTENSION									BEARING	
				D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
132S	125	50	G3/4"	38	80	70	5	28	10	33	41	M12	6308ZZ	6306ZZ
132M	125	50	G3/4"	38	80	70	5	28	10	33	41	M12	6308ZZ	6306ZZ

**Note :**

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

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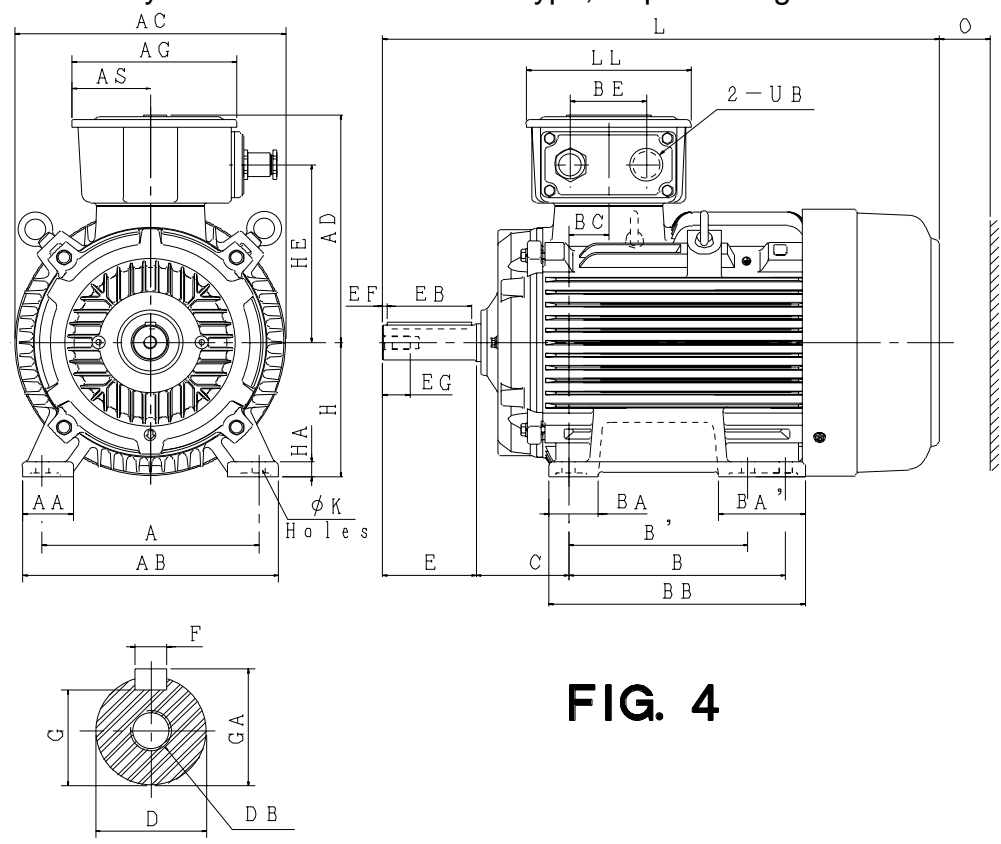
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MARINE 3-PHASE INDUCTION MOTORS  
B3 (IM 1001) FRAME NOS. 160M ~ 160L

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



**FIG. 4**

Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	A	AA	AB	AC	AD	AG	AS	B	B'	BA	BA'	BB	BC	BE	C	H	HA	HE
2P	4P	6P	---			254	60	300	317	273	193	193	91.5	210	---	57.5	57.5	256	47	89	108	160	18
11	11	7.5	---	160M	4	254	60	300	317	273	193	91.5	210	---	57.5	57.5	256	47	89	108	160	18	215
15	---	---	---																				
18.5	15	---	---	160L	4	254	60	300	317	273	193	91.5	254	210	57.5	101.5	300	47	89	108	160	18	215
---	---	11	---																				

FRAME SIZE	K	L	LL	O	UB (CG-PF)	SHAFT EXTENSION								BEARING		
						D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
160M	14.5	608	193	60	G3/4"	42	110	100	5	36	12	37	45	M16	6309ZZ	6307ZZ
					G1"	42	110	100	5	36	12	37	45	M16	6309ZZ	6307ZZ
160L	14.5	652	193	60	G1"	42	110	100	5	36	12	37	45	M16	6309ZZ	6307ZZ
					G3/4"											

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

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DWN.	YINYIN.SHA	26-Jun-14		3/8	



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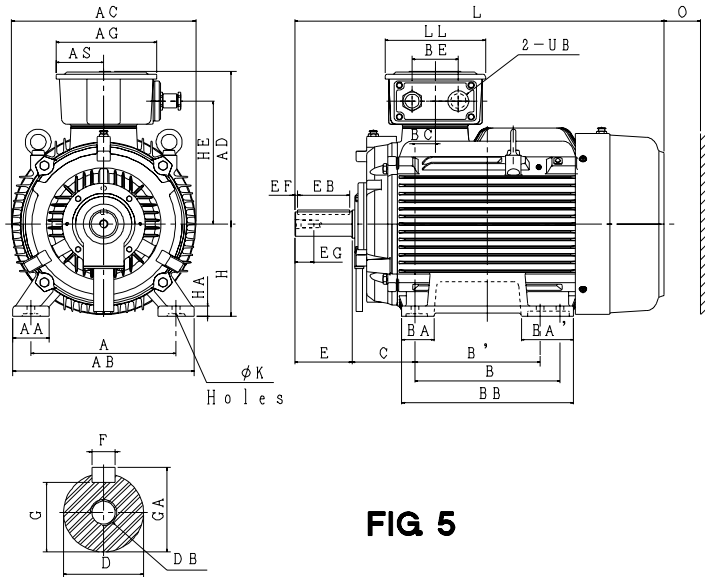
# OUTLINE DIMENSIONS SHEET

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MARINE 3-PHASE INDUCTION MOTORS  
B3 (IM 1001) FRAME NOS. 180M ~ 250M

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'	BA	BA'	BB	BC	BE	C	H	HA	
2P	4P	6P	---																				
22	18.5	---	---	180M	5	279	65	330	354	299	193	91.5	241	---	62	62	292	39	89	121	180	20	
---	22	15	---	180L		279	65	330	354	299	193	91.5	279	241	62	100	330	39	89	121	180	20	
30 37	30	18.5 22	---	200L		318	70	378	398	332	231	110.5	305	---	76	76	365	60	106	133	200	24	
---	37	---	---	225SC		356	75	431	449	358	231	110.5	286	---	90	90	350	37.5	106	149	225	28	
45	---	---	---	225MA		356	75	431	449	358	231	110.5	311	286	90	115	375	37.5	106	149	225	28	
---	45	30	---	225MC		356	75	431	449	358	231	110.5	311	286	90	115	375	37.5	106	149	225	28	
55	---	---	---	250MA		406	85	480	499	400	255	122.5	349	---	105	105	425	57.5	119	168	250	30	
---	55	---	---	250MC		406	85	480	499	400	255	122.5	349	---	105	105	425	57.5	119	168	250	30	
---	---	37	---																				

FRAME SIZE	HE	K	L	LL	O	UB (CG-PF)	SHAFT EXTENSION										BEARING	
							D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	
180M	241	14.5	672	193	70	G1"	48	110	100	5	36	14	42.5	51.5	M16	(6311C3)	(6310C3)	
180L	241	14.5	710	193	70	G1"	48	110	100	5	36	14	42.5	51.5	M16	6311	6310	
200L	262	18.5	770	231	80	G1"	55	110	100	5	42	16	49	59	M20	(6312C3) 6312	(6212C3) 6212	
225SC	288	18.5	816	231	90	G1"	60	140	125	7.5	42	18	53	64	M20	(6312C3)	(6212C3)	
225MA	288	18.5	811	231	90	G1"	55	110	100	5	42	16	49	59	M20	6313	6213	
225MC	288	18.5	841	231	90	G1"	60	140	125	7.5	42	18	53	64	M20			
250MA	322	24	921	255	105	G1-1/2"	60	140	125	7.5	42	18	53	64	M20	6313C3	6313C3	
250MC	322	24	921	255	105	G1-1/2" G1"	65	140	125	7.5	42	18	58	69	M20	6315	6313	

**Note :**

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

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DWN.	YINYIN.SHA	26-Jun-14		4/8	



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# OUTLINE DIMENSIONS SHEET

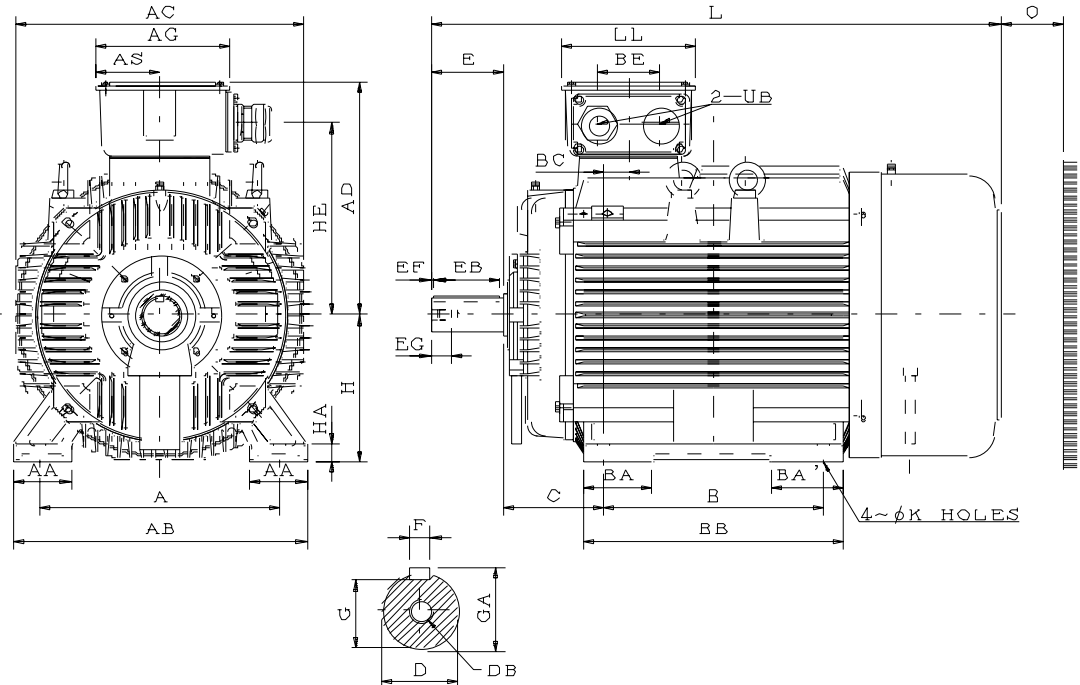
## MARINE 3-PHASE INDUCTION MOTORS

### B3 (IM 1001) FRAME NOS. 280SA ~ 280MB

TYPE  
**AEEVB2**

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

FRAME SIZE	K	L	LL	O	UB	SHAFT EXTENSION										BEARING	
						D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	
280SA	24	1037.5	255	140	G1-1/2"	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
280SB	24	1037.5	255	140	4P: G1-1/2" 6P: G1"	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6316C3	
280MA	24	1087.5	255	140	G1-1/2"	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3	
280MB	24	1087.5	255	140	G1-1/2"	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	21-Aug-14
CHKD.	J.LIU	21-Aug-14
DWN.	S.CAO	21-Aug-14

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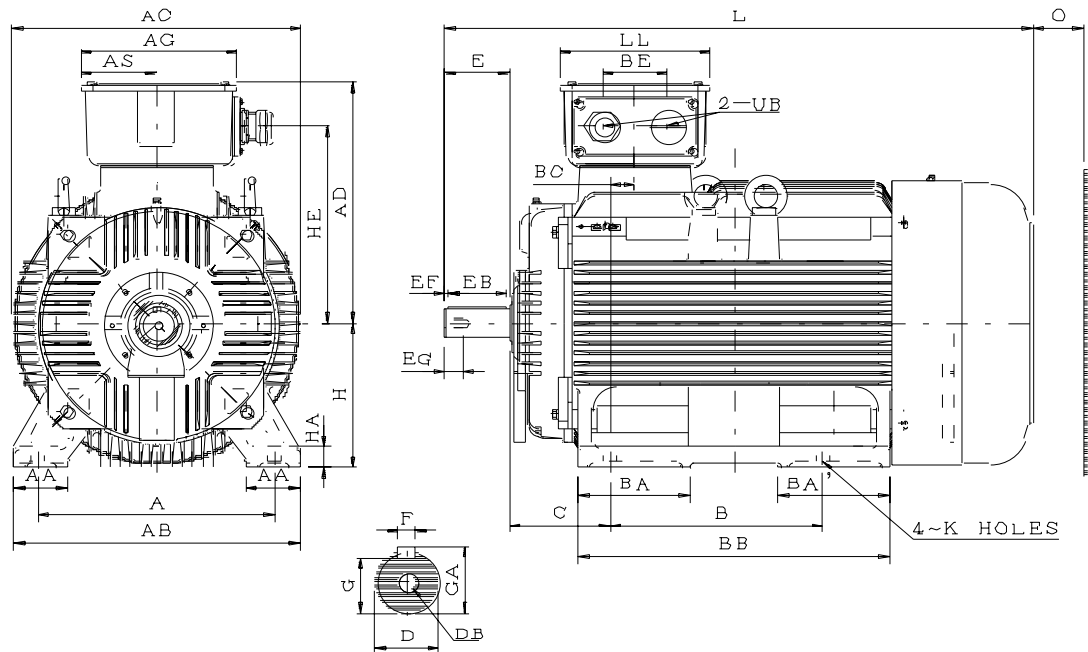
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# OUTLINE DIMENSIONS SHEET

MARINE 3-PHASE INDUCTION MOTORS  
B3 (IM 1001) FRAME NOS. 315SA ~ 315MB

TYPE  
**AEEVB2**  
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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	BA	BA'	BB	BC	BE	C	H	HA	HE
2P	4P	6P																		
110	---	---	315SA	508	115	615	620	527.5	336	163	406	210	210	620	53	140	216	315	35	430
---	110	75	315SB	508	115	615	620	527.5	336	163	406	210	210	620	53	140	216	315	35	430
132	---	---	315MA	508	115	615	620	527.5	336	163	457	240	240	670	53	140	216	315	35	430
---	132	90	315MB	508	115	615	620	527.5	336	163	457	240	240	670	53	140	216	315	35	430

FRAME SIZE	K	L	LL	O	UB	SHAFT EXTENSION									BEARING	
						D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
315SA	28	1216	322	180	G1-1/2"	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3
315SB	28	1246	322	180	G1-1/2"	80	170	160	5	40	22	71	85	M20	6320C3	6316C3
315MA	28	1266	322	180	G2"	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3
315MB	28	1296	322	180	4P: G2" 6P: G1-1/2"	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

APPD.	Ben Yang	21-Aug-14
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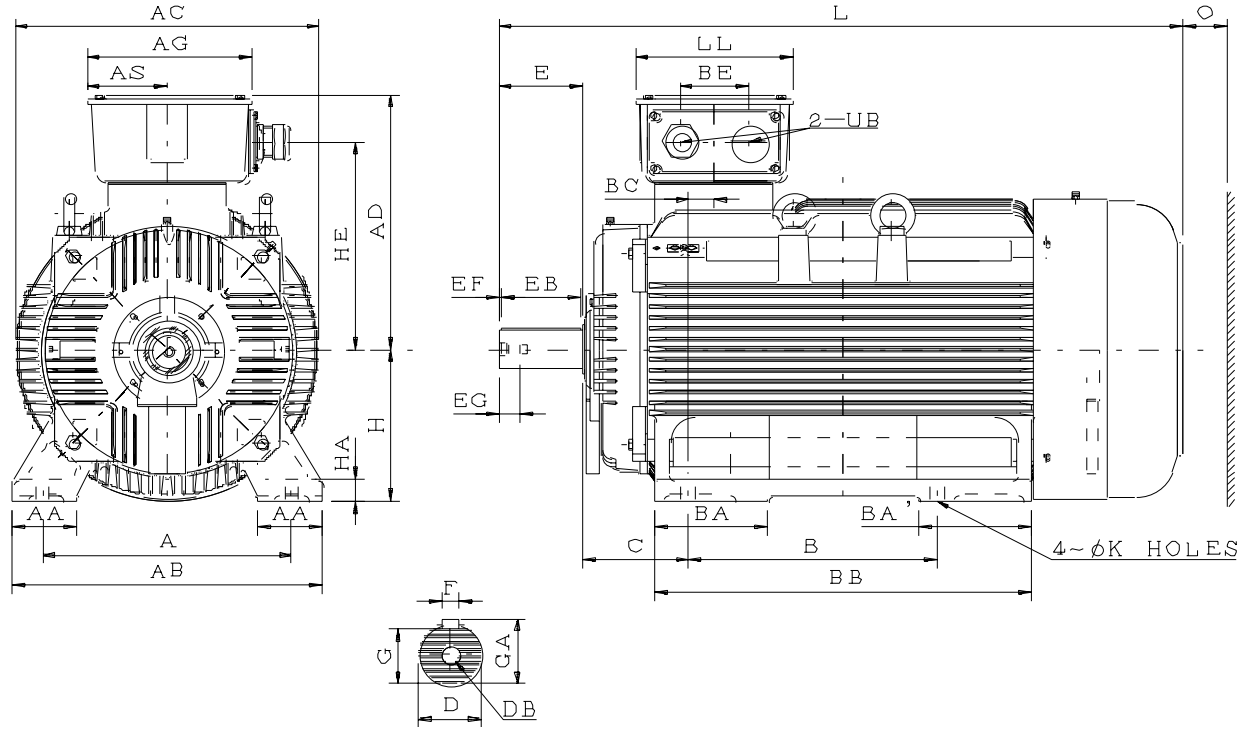
# OUTLINE DIMENSIONS SHEET

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MARINE 3-PHASE INDUCTION MOTORS  
B3 (IM 1001) FRAME NOS. 315LA ~ 315LB

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



Dimension in mm

Output (kW)			FRAME SIZE	A	AA	AB	AC	AD	AG	AS	B	BA	BA'	BB	BC	BE	C	H	HA	HE
2P	4P	6P																		
160	---	---	315LA	508	130	630	620	527.5	336	163	508	230	230	770	53	140	216	315	45	430
---	160	110	315LB	508	130	630	620	527.5	336	163	508	230	230	770	53	140	216	315	45	430
200	---	132																		

FRAME SIZE	K	L	LL	O	UB	SHAFT EXTENSION								BEARING		
						D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
315LA	28	1366	322	180	G2"	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3
315LB	28	1396	322	180	G2" (6P 110kW/ 132kW G1- 1/2")	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

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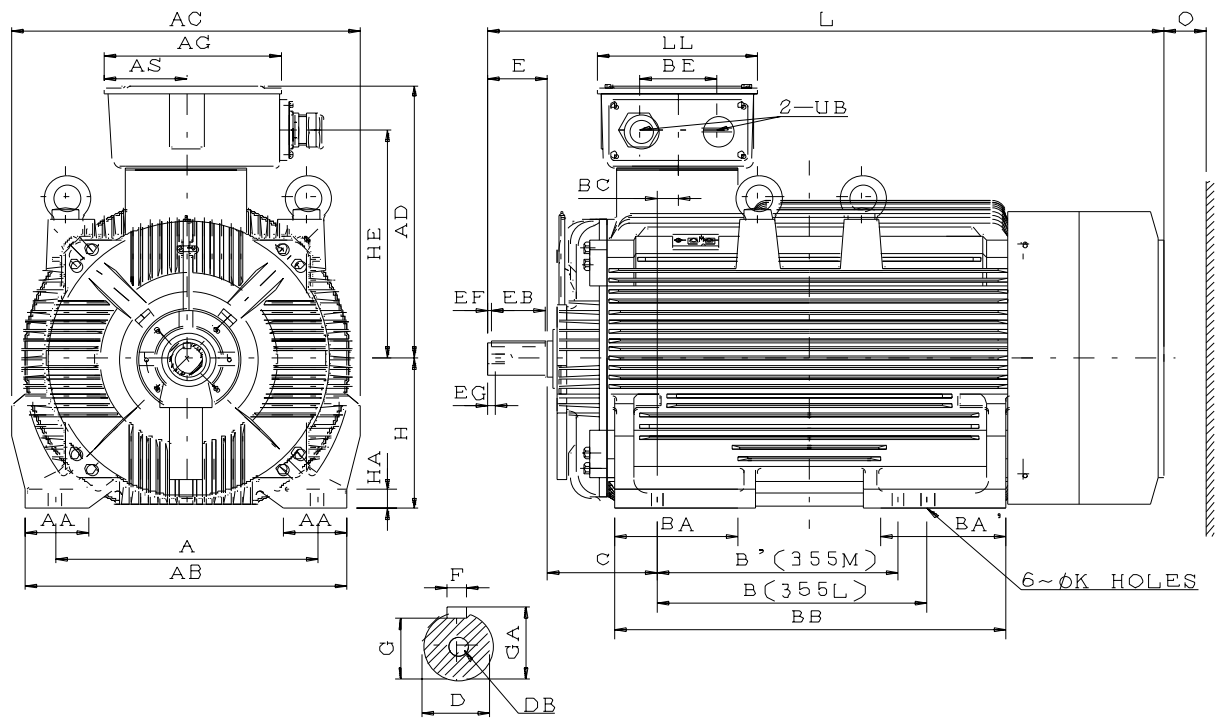
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# OUTLINE DIMENSIONS SHEET

MARINE 3-PHASE INDUCTION MOTORS  
B3 (IM 1001) FRAME NOS. 355MA ~ 355LB

TYPE  
**AEEVB2**  
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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	BC	BE	C	H	HA
2P	4P	6P																		
250	---	---	355MA	610	150	750	810	645	412	189	---	560	330	330	860	48	180	254	355	45
---	250	160 200	355MB	610	150	750	810	645	412	189	---	560	330	330	860	48	180	254	355	45
315	---	---	355LA	610	150	750	810	645	412	189	630	---	330	330	910	48	180	254	355	45
---	315	250	355LB	610	150	750	810	645	412	189	630	---	330	330	910	48	180	254	355	45

FRAME SIZE	HE	K	L	LL	O	UB	SHAFT EXTENSION										BEARING	
							D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	
355MA	540	28	1525	372	230	G2-1/2"	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6318C3	
355MB	540	28	1555	372	230	G2-1/2" (6P 160kW: G2")	95	170	160	5	48	25	86	100	M24	6322C3	6322C3	
355LA	540	28	1575	372	230	G2-1/2"	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6318C3	
355LB	540	28	1605	372	230	G2-1/2"	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

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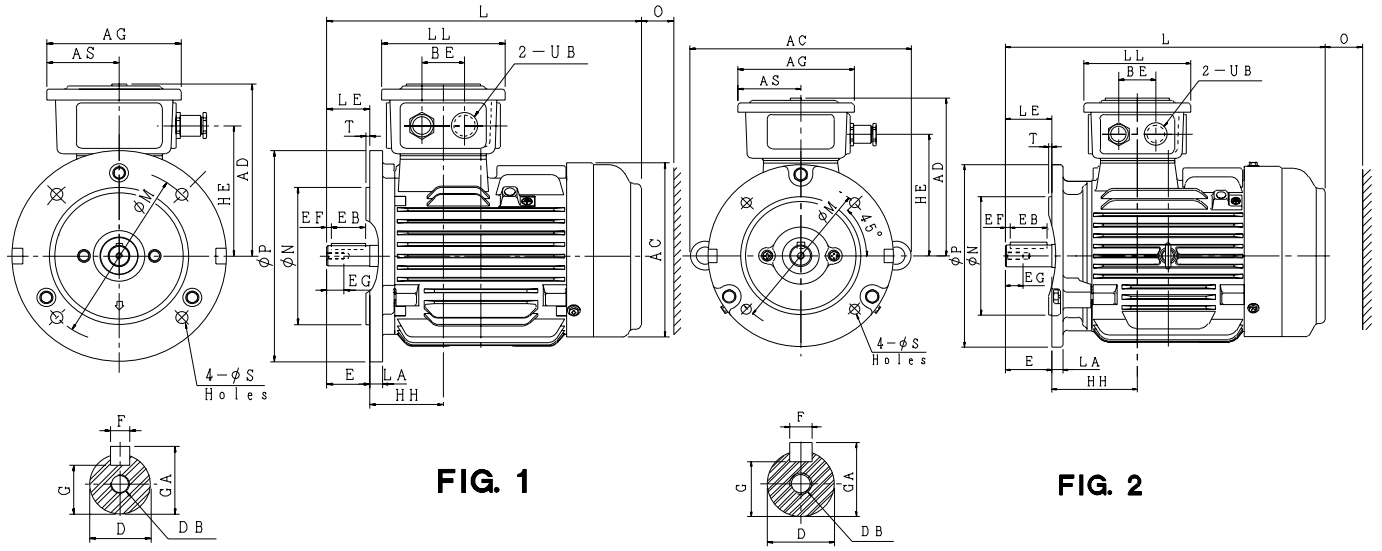
## MARINE 3-PHASE INDUCTION MOTORS

### B5 (IM 3001) FRAME NOS. 80M ~ 90L

TYPE  
**AEUVB2**

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



Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	FLANGE DIMENSION							AC	AD	AG	AS	BE	HE	HH	L
2P	4P	6P	---			LA	LE	M	N	P	S	T								
0.75	0.55	0.55	---	80M	1	12	40	165	130	200	12	3.5	177	163	125	67.5	40	123.5	68.5	293
1.1	0.75	---	---			12	40	165	130	200	12	3.5								
1.5	1.1	0.75	---	90S	2	12	50	165	130	200	12	3.5	271	173	125	67.5	40	133.5	92	344.5
2.2	1.5	1.1	---			90L	12	50	165	130	200	12								

FRAME SIZE	LL	O	UB (CG-PF)	SHAFT EXTENSION									BEARING	
				D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
80M	115	40	G3/4"	19	40	32	4	16	6	15.5	21.5	M6	6204ZZ	6204ZZ
90S	115	40	G3/4"	24	50	40	5	19	8	20	27	M8	6205ZZ	6205ZZ
90L	115	40	G3/4"	24	50	40	5	19	8	20	27	M8	6205ZZ	6205ZZ

**Note :**

1. Tolerance of shaft end diameter D : Under  $\phi 19 \sim \phi 24 : j6$  ;
2. Tolerance of N :  $j6$ .

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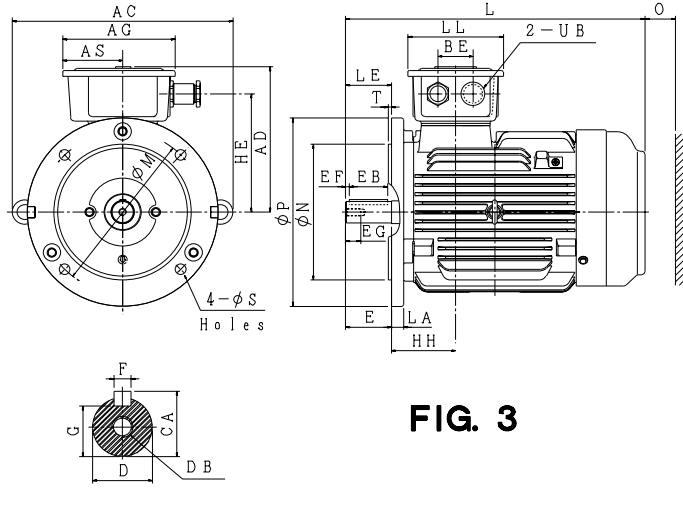
## MARINE 3-PHASE INDUCTION MOTORS

### B5 (IM 3001) FRAME NOS. 100L ~ 132M

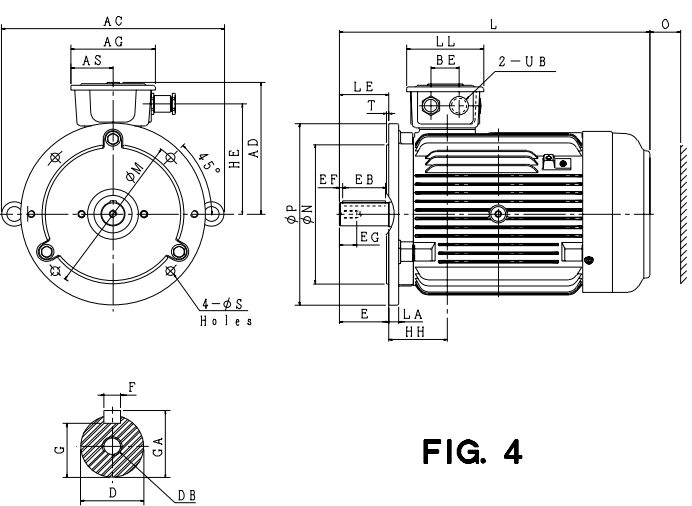
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Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.



**FIG. 3**



**FIG. 4**

Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	FLANGE DIMENSION							AC	AD	AG	AS	BE	HE	HH	L	LL	O
2P	4P	6P	---			LA	LE	M	N	P	S	T										
3	2.2	1.5	---	100L	4	16	60	215	180	250	14.5	4	288.5	193	147	78.5	50	157	84	392	125	50
---	3	---	---																			
4	4	2.2	---	112M	3	15	60	215	180	250	14.5	4	306.5	200.5	147	78.5	50	164.5	98	412.5	125	50
5.5	5.5	3	---	132S	4	16	80	265	230	300	14.5	4	360	218	147	78.5	50	182	95	466	125	50
7.5	---	---	---																			
---	7.5	4	---	132M		16	80	265	230	300	14.5	4	360	218	147	78.5	50	182	95	504	125	50
---	---	5.5	---																			

FRAME SIZE	UB (CG-PF)	SHAFT EXTENSION									BEARING	
		D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
100L	G3/4"	28	60	50	5	22	8	24	31	M10	6206ZZ	6206ZZ
112M	G3/4"	28	60	50	5	22	8	24	31	M10	6306ZZ	6306ZZ
132S	G3/4"	38	80	70	5	28	10	33	41	M12	6308ZZ	6306ZZ
132M	G3/4"	38	80	70	5	28	10	33	41	M12	6308ZZ	6306ZZ

**Note :**

1. Tolerance of shaft end diameter D :  $\phi 28:j6$ ,  $\phi 38:k6$ .
2. Tolerance of N : j6.

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<b>Wuxi, China</b>				2/5



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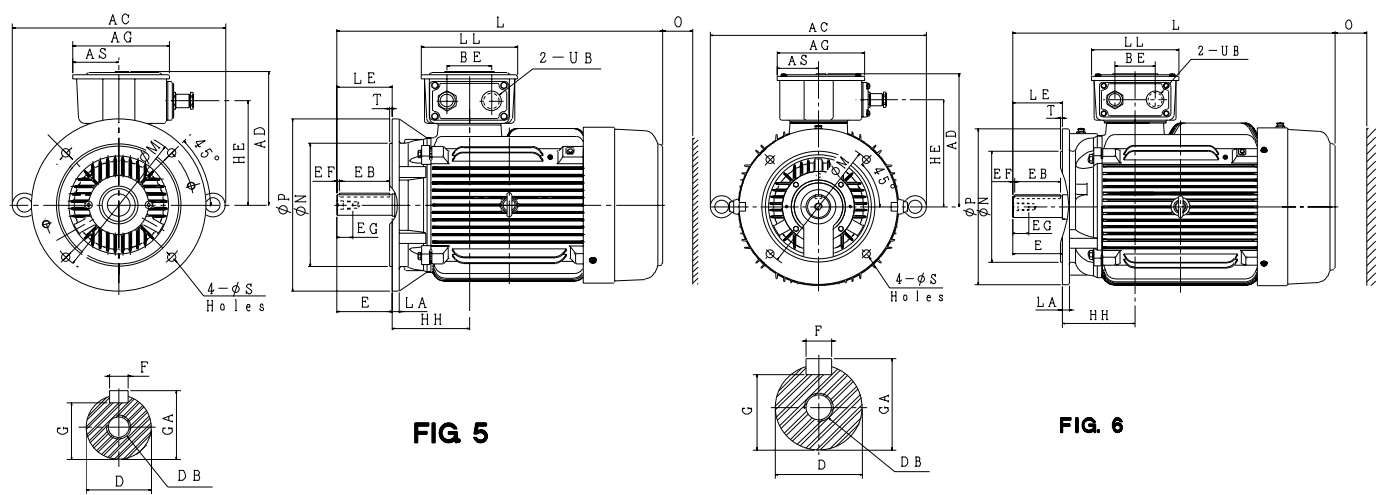
# OUTLINE DIMENSIONS SHEET

## MARINE 3-PHASE INDUCTION MOTORS

### B5 (IM 3001) FRAME NOS. 160M ~ 180L

TYPE  
**AEUVB2**  
PAGE  
20 of 67

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



Dimension in mm

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

FRAME SIZE	UB (CG-PF)	SHAFT EXTENSION										BEARING	
		D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	
160M	G3/4"	42	110	100	5	36	12	37	45	M16	6309ZZ	6307ZZ	
	G1"	42	110	100	5	36	12	37	45	M16	6309ZZ	6307ZZ	
160L	G1"	42	110	100	5	36	12	37	45	M16	6309ZZ	6307ZZ	
	G3/4"	42	110	100	5	36	12	37	45	M16	6309ZZ	6307ZZ	
180M	G1"	48	110	100	5	36	14	42.5	51.5	M16	(6311C3)	(6310C3)	
180L	G1"	48	110	100	5	36	14	42.5	51.5	M16	6311	6310	

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

APPD.	K.L.KUO	26-Jun-14
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DWN.	YINYIN.SHA	26-Jun-14

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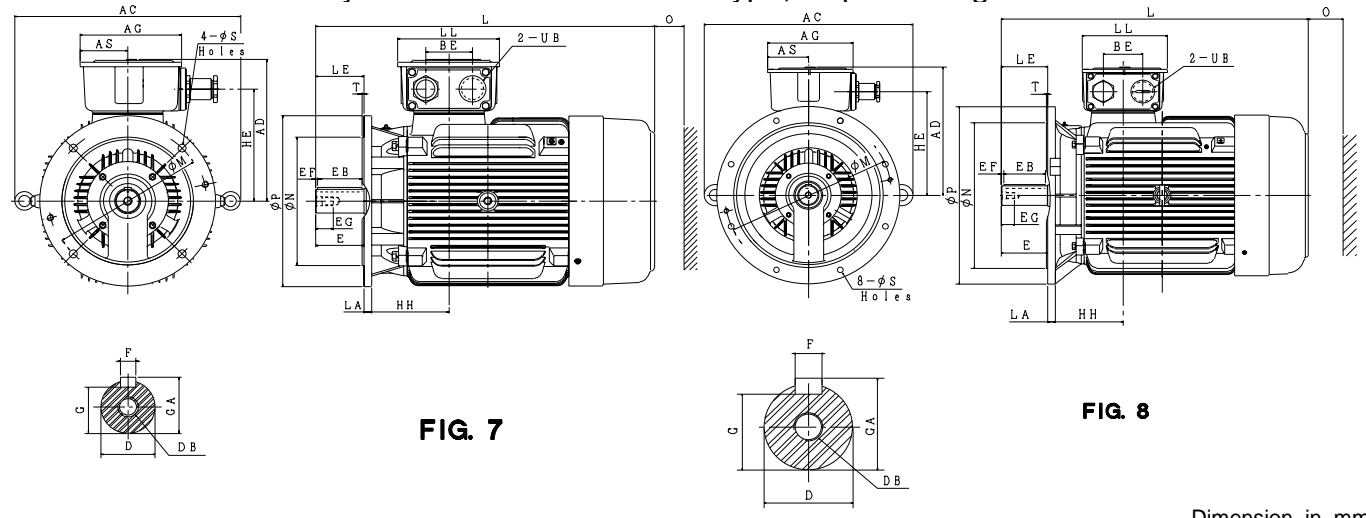
# OUTLINE DIMENSIONS SHEET

## MARINE 3-PHASE INDUCTION MOTORS

### B5 (IM 3001) FRAME NOS. 200L ~ 250M

TYPE  
**AEUVB2**  
PAGE  
21 of 67

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



Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	FLANGE DIMENSION							AC	AD	AG	AS	BE	HE	HH	L
2P	4P	6P	---			LA	LE	M	N	P	S	T								
30 37	30	18.5 22	---	200L	7	17	110	350	300	400	18.5	5	524	332	231	110.5	106	262	193	770
---	37	---	---	225SC	8	20	140	400	350	450	18.5	5	574	358	231	110.5	106	288	186.5	816
45	---	---	---	225MA		20	110	400	350	450	18.5	5	574	358	231	110.5	106	288	186.5	811
---	45	30	---	225MC		20	140	400	350	450	18.5	5	574	358	231	110.5	106	288	186.5	841
55	---	---	---	250MA		22	140	500	450	550	18.5	5	642	400	255	122.5	119	322	225.5	921
---	55	---	---	250MC		22	140	500	450	550	18.5	5	642	400	255	122.5	119	322	225.5	921
---	---	37	---																	

FRAME SIZE	LL	O	UB (CG-PF)	SHAFT EXTENSION									BEARING	
				D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
200L	231	80	G1"	55	110	100	5	42	16	49	59	M20	(6312C3) 6312	(6212C3) 6212
225SC	231	90	G1"	60	140	125	7.5	42	18	53	64	M20	(6312C3)	(6212C3)
225MA	231	90	G1"	55	110	100	5	42	16	49	59	M20	6313	6213
225MC	231	90	G1"	60	140	125	7.5	42	18	53	64	M20		
250MA	255	105	G1-1/2"	60	140	125	7.5	42	18	53	64	M20	6313C3	6313C3
250MC	255	105	G1-1/2" G1"	65	140	125	7.5	42	18	58	69	M20	6315	6313

- 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.	K.L.KUO	26-Jun-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	<b>32057R9499</b>
CHKD.	SHITOU	26-Jun-14		Rev. 00	
DWN.	YINYIN.SHA	26-Jun-14		4/5	



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21-Aug-14

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# OUTLINE DIMENSIONS SHEET

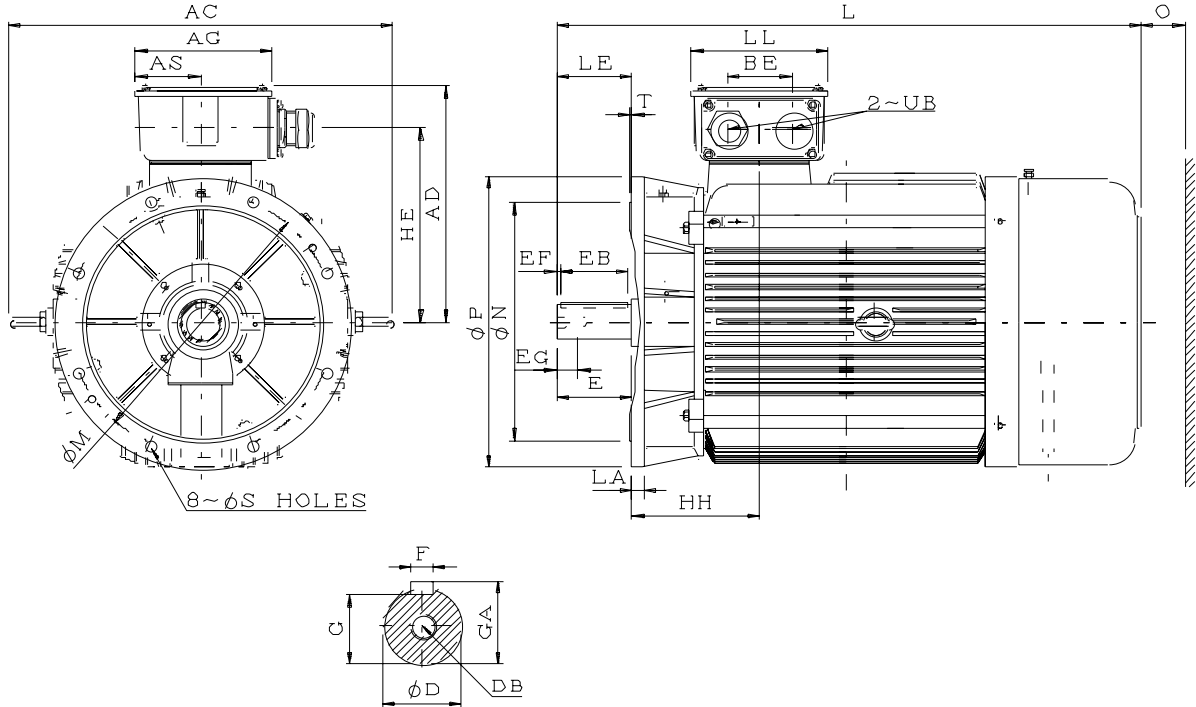
## MARINE 3-PHASE INDUCTION MOTORS

### B5 (IM 3001) FRAME NOS. 280SA ~ 280MB

TYPE  
**AEUVB2**

PAGE  
22 of 67

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



Dimension in mm

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

FRAME SIZE	LL	O	UB	SHAFT EXTENSION									BEARING	
				D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
280SA	255	140	G1-1/2"	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3
280SB	255	140	4P: G1-1/2" 6P: G1"	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6316C3
280MA	255	140	G1-1/2"	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3
280MB	255	140	G1-1/2"	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	21-Aug-14
CHKD.	J.LIU	21-Aug-14
DWN.	S.CAO	21-Aug-14

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DWG NO.  
**32057R9499**

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# OUTLINE DIMENSIONS SHEET

## MARINE 3-PHASE INDUCTION MOTORS

### B35 (IM 2001) FRAME NOS. 80M ~ 90L

TYPE  
**AEVB2**  
PAGE  
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Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.

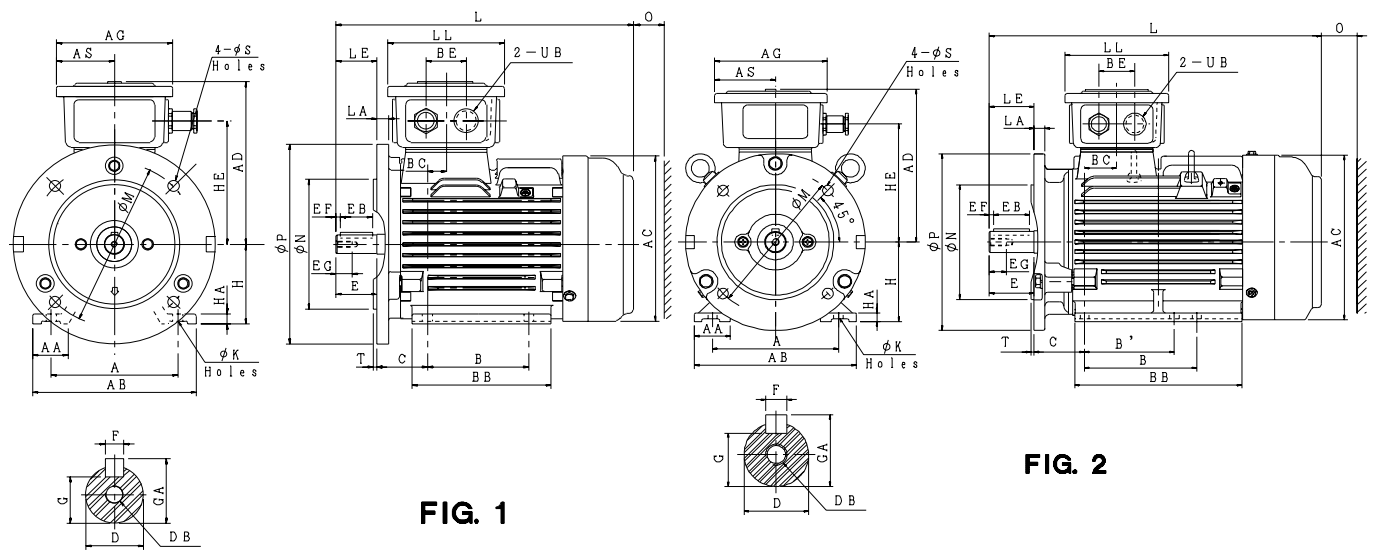


FIG. 1

FIG. 2

Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	FLANGE DIMENSION							A	AA	AB	AC	AD	AG	AS	B	B'	BB	BC	BE	C	H
2P	4P	6P	---			LA	LE	M	N	P	S	T														
0.75	0.55	0.55	---	80M	1	12	40	165	130	200	12	3.5	125	34.5	161	177	163	125	67.5	---	100	137	18.5	40	50	80
1.1	0.75	---	---			12	50	165	130	200	12	3.5	140	40	180	197	173	125	67.5	100	100	161	36	40	56	90
2.2	1.5	1.1	---	90L	2	12	50	165	130	200	12	3.5	140	40	180	197	173	125	67.5	---	125	186	36	40	56	90

FRAME SIZE	HA	HE	K	L	LL	O	UB (CG-PF)	SHAFT EXTENSION								BEARING		
								D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
80M	10	123.5	10	293	115	40	G3/4"	19	40	32	4	16	6	15.5	21.5	M6	6204ZZ	6204ZZ
90S	10	133.5	10	344.5	115	40	G3/4"	24	50	40	5	19	8	20	27	M8	6205ZZ	6205ZZ
90L	10	133.5	10	369.5	115	40	G3/4"	24	50	40	5	19	8	20	27	M8	6205ZZ	6205ZZ

**Note :**

1. Tolerance of shaft end diameter D : Under  $\phi 19 \sim \phi 24$  : j6.
2. Tolerance of shaft center high H : +0, -0.5.
3. Tolerance of N : j6.

APPD.	K.L.KUO	26-Jun-14
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# OUTLINE DIMENSIONS SHEET

## MARINE 3-PHASE INDUCTION MOTORS

### B35 (IM 2001) FRAME NOS. 100L ~ 132M

TYPE  
**AEVB2**  
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24 of 67

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

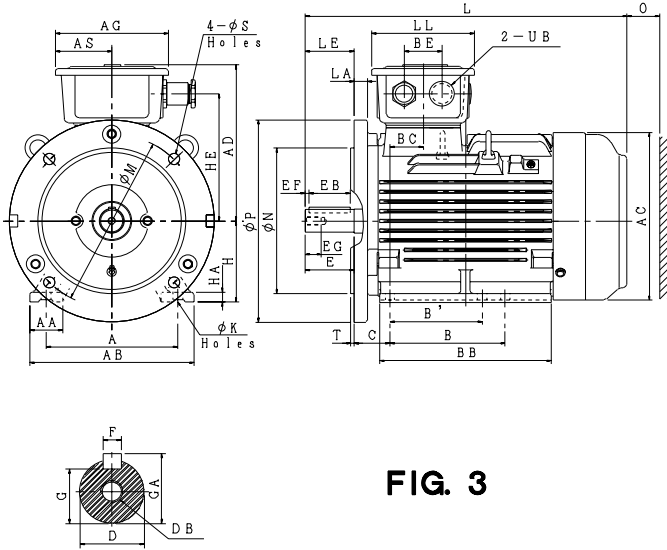


FIG. 3

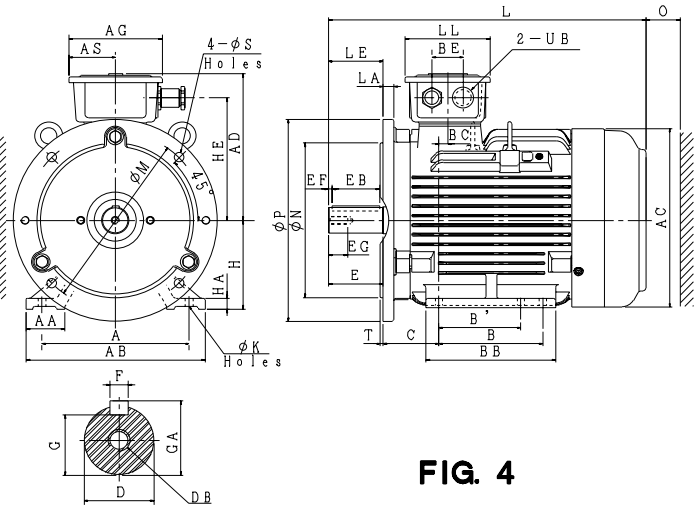


FIG. 4

Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	FLANGE DIMENSION							A	AA	AB	AC	AD	AG	AS	B	B'	BB	BC	BE	C	H
2P	4P	6P	---			LA	LE	M	N	P	S	T														
3	2.2	1.5	---	100L	4	16	60	215	180	250	14.5	4	160	40	200	219	193	147	78.5	140	---	181	21	50	63	100
---	3	---	---																							
4	4	2.2	---	112M	3	15	60	215	180	250	14.5	4	190	45	235	235	200.5	147	78.5	140	---	186	28	50	70	112
5.5	5.5	3	---																							
7.5	---	---	---																							
---	7.5	4	---	132M	4	16	80	265	230	300	14.5	4	216	57	263	273	218	147	78.5	140	---	184	6	50	89	132
---	---	5.5	---																							

FRAME SIZE	HA	HE	K	L	LL	O	UB (CG-PF)	SHAFT EXTENSION							BEARING			
								D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
100L	12	157	12	392	125	50	G3/4"	28	60	50	5	22	8	24	31	M10	6206ZZ	6206ZZ
112M	13	164.5	12	412.5	125	50	G3/4"	28	60	50	5	22	8	24	31	M10	6306ZZ	6306ZZ
132S	16	182	12	466	125	50	G3/4"	38	80	70	5	28	10	33	41	M12	6308ZZ	6306ZZ
132M	16	182	12	504	125	50	G3/4"	38	80	70	5	28	10	33	41	M12	6308ZZ	6306ZZ

- Note :**
1. Tolerance of shaft end diameter D :  $\phi 28:j6$ ,  $\phi 38:k6$ .
  2. Tolerance of shaft center high H : +0, -0.5.
  3. Tolerance of N : j6.

APPD.	K.L.KUO	26-Jun-14
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Rev. 00 2/8



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26-Jun-14  
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# OUTLINE DIMENSIONS SHEET

## MARINE 3-PHASE INDUCTION MOTORS

### B35 (IM 2001) FRAME NOS. 160M ~ 180L

TYPE  
**AEVB2**  
PAGE  
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Totally Enclosed Fan-Cooled Type, Squirrel-Cage Rotor.

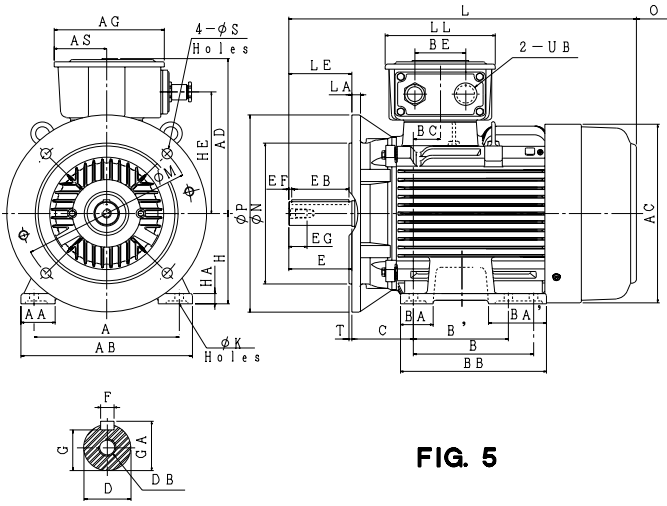


FIG. 5

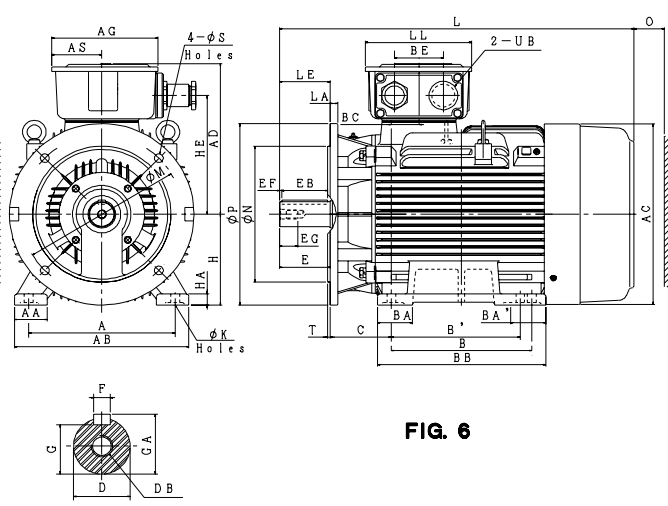


FIG. 6

Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	FLANGE DIMENSION								A	AA	AB	AC	AD	AG	AS	B	BA	BA'	BB	BC	BE
2P	4P	6P	---			LA	LE	M	N	P	S	T														
11	11	7.5	---	160M	5	15	110	300	250	350	18.5	5	254	60	300	317	273	193	91.5	210	57.5	57.5	256	38	89	
15	---	---	---	160L		15	110	300	250	350	18.5	5	254	60	300	317	273	193	91.5	254	57.5	101.5	300	38	89	
22	18.5	---	---	180M	6	15	110	300	250	350	18.5	5	279	65	330	354	299	193	91.5	241	62	62	292	39	89	
---	22	15	---	180L		15	110	300	250	350	18.5	5	279	65	330	354	299	193	91.5	279	62	100	330	39	89	

FRAME SIZE	C	H	HA	HE	K	L	LL	O	UB (CG-PF)	SHAFT EXTENSION								BEARING		
										D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
160M	108	160	18	215	14.5	608	193	60	G3/4"	42	110	100	5	36	12	37	45	M16	6309ZZ	6307ZZ
									G1"											6307ZZ
160L	108	160	18	215	14.5	652	193	60	G1"	42	110	100	5	36	12	37	45	M16	6309ZZ	6307ZZ
180M	121	180	20	241	14.5	672	193	70	G1"	48	110	100	5	36	14	42.5	51.5	M16	(6311C3)	(6310C3)
180L	121	180	20	241	14.5	710	193	70	G1"	48	110	100	5	36	14	42.5	51.5	M16	6311	6310

- 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.	K.L.KUO	26-Jun-14
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Wuxi, China

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26-Jun-14

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# OUTLINE DIMENSIONS SHEET

TYPE  
**AEVB2**

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26 of 67

MARINE 3-PHASE INDUCTION MOTORS  
B35 (IM 2001) FRAME NOS. 200L ~ 250M

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

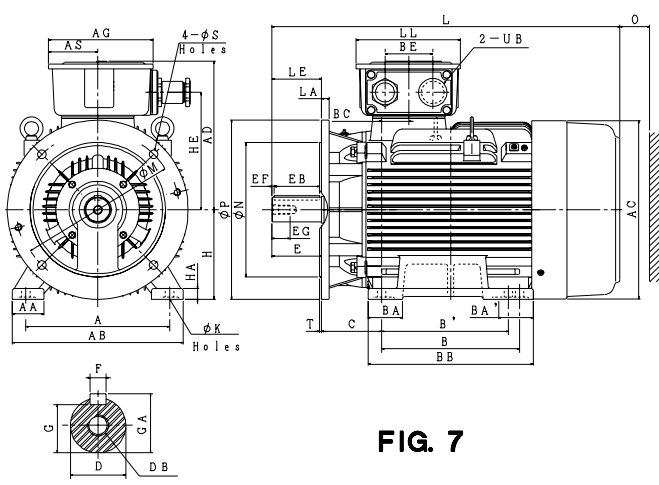


FIG. 7

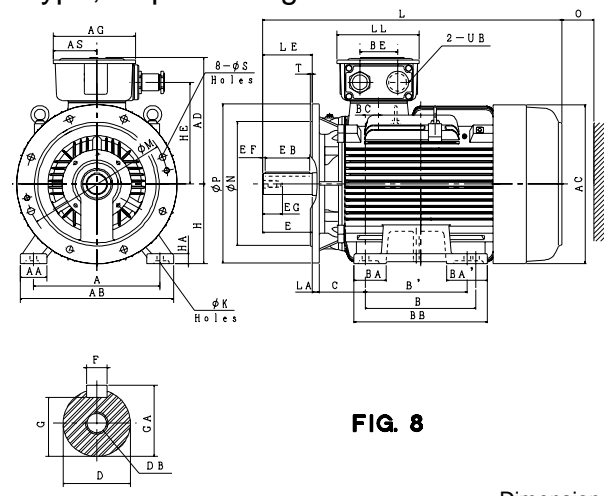


FIG. 8

Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	FLANGE DIMENSION							A	AA	AB	AC	AD	AG	AS	B	B'	BA	BA'	BB	BC
2P	4P	6P	---			LA	LE	M	N	P	S	T													
30	30	18.5	---	200L	7	17	110	350	300	400	18.5	5	318	70	378	398	332	231	110.5	305	---	76	76	365	60
---	37	---	---	225SC	8	20	140	400	350	450	18.5	5	356	75	431	449	358	231	110.5	286	---	90	90	350	37.5
45	---	---	---	225MA		20	110	400	350	450	18.5	5	356	75	431	449	358	231	110.5	311	286	90	115	375	37.5
---	45	30	---	225MC		20	140	400	350	450	18.5	5	356	75	431	449	358	231	110.5	311	286	90	115	375	37.5
55	---	---	---	250MA		22	140	500	450	550	18.5	5	406	85	480	499	400	255	122.5	349	---	105	105	425	57.5
---	55	---	---	250MC		22	140	500	450	550	18.5	5	406	85	480	499	400	255	122.5	349	---	105	105	425	57.5
---	---	37	---																						

FRAME SIZE	BE	C	H	HA	HE	K	L	LL	O	UB (CG-PF)	SHAFT EXTENSION							BEARING			
											D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
200L	106	133	200	24	262	18.5	770	231	80	G1"	55	110	100	5	42	16	49	59	M20	(6312C3)	(6212C3)
225SC	106	149	225	28	288	18.5	816	231	90	G1"	60	140	125	7.5	42	18	53	64	M20	(6312C3)	(6212C3)
225MA	106	149	225	28	288	18.5	811	231	90	G1"	55	110	100	5	42	16	49	59	M20	6313	6213
225MC	106	149	225	28	288	18.5	841	231	90	G1"	60	140	125	7.5	42	18	53	64	M20		
250MA	119	168	250	30	322	24	921	255	105	G1-1/2"	60	140	125	7.5	42	18	53	64	M20	(6313C3)	(6313C3)
250MC	119	168	250	30	322	24	921	255	105	G1-1/2" G1"	65	140	125	7.5	42	18	58	69	M20	6315	6313

- 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.	K.L.KUO	26-Jun-14
CHKD.	SHITOU	26-Jun-14
DWN.	YINYIN.SHA	26-Jun-14

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**Wuxi, China**

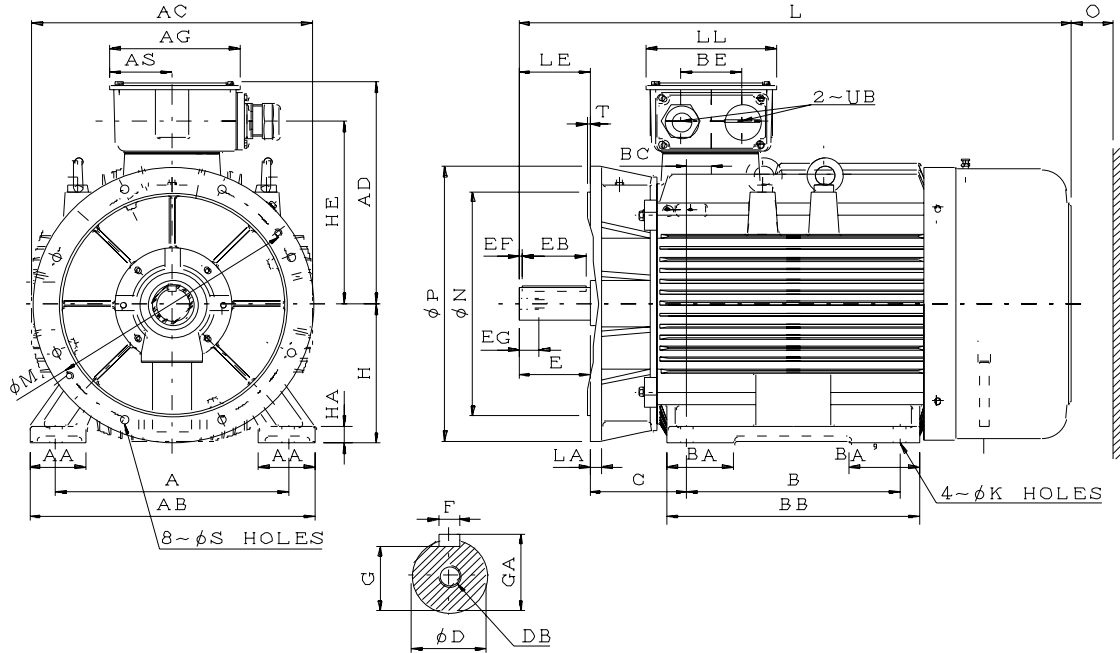
DWG NO.  
**32057R9500**

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ISSUED 21-Aug-14	<b>OUTLINE DIMENSIONS SHEET</b>	TYPE <b>AEVB2</b>
REVISED		MARINE 3-PHASE INDUCTION MOTORS B35 (IM 2001) FRAME NOS. 280SA ~ 280MB

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



Dimension in mm

Output (kW)			FRAME SIZE	FLANGE DIMENSION								A	AA	AB	AC	AD	AG	AS	B	BA	BA'	BB	BC	BE
2P	4P	6P		LA	LE	M	N	P	S	T														
75	---	---	280SA	22	140	500	450	550	18.5	5	457	110	560	550	446	255	122.5	368	110	110	445	48	119	
---	75	45	280SB	22	140	500	450	550	18.5	5	457	110	560	550	446	255	122.5	368	110	110	445	48	119	
90	---	---	280MA	22	140	500	450	550	18.5	5	457	110	560	550	446	255	122.5	419	130	137	495	48	119	
---	90	55	280MB	22	140	500	450	550	18.5	5	457	110	560	550	446	255	122.5	419	130	137	495	48	119	

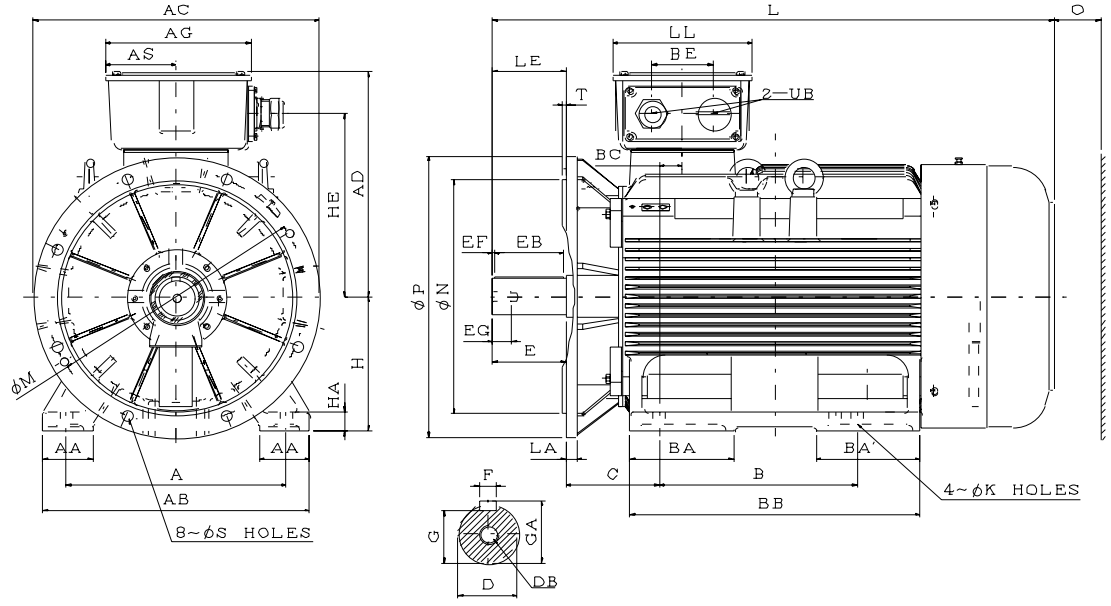
FRAME SIZE	C	H	HA	HE	K	L	LL	O	UB	SHAFT EXTENSION								BEARING		
										D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
280SA	190	280	35	367	24	1037.5	255	140	G1-1/2"	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3
280SB	190	280	35	367	24	1037.5	255	140	4P: G1-1/2" 6P: G1"	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6316C3
280MA	190	280	35	367	24	1087.5	255	140	G1-1/2"	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3
280MB	190	280	35	367	24	1087.5	255	140	G1-1/2"	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	21-Aug-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> Wuxi, China	DWG NO.	<b>32057R9500</b>
CHKD.	J.LIU	21-Aug-14		Rev. 00	
DWN.	S.CAO	21-Aug-14		5/8	

ISSUED 21-Aug-14	<b>OUTLINE DIMENSIONS SHEET</b>	TYPE <b>AEVB2</b>
REVISED		MARINE 3-PHASE INDUCTION MOTORS B35 (IM 2001) FRAME NOS. 315SA ~ 315MB

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



Dimension in mm

Output (kW)			FRAME SIZE	FLANGE DIMENSION								A	AA	AB	AC	AD	AG	AS	B	BA	BA'	BB	BC	BE
2P	4P	6P		LA	LE	M	N	P	S	T														
110	---	---	315SA	25	140	600	550	660	24	6	508	115	615	660	527.5	336	163	406	210	210	620	53	140	
---	110	75	315SB	25	170	600	550	660	24	6	508	115	615	660	527.5	336	163	406	210	210	620	53	140	
132	---	---	315MA	25	140	600	550	660	24	6	508	115	615	660	527.5	336	163	457	240	240	670	53	140	
---	132	90	315MB	25	170	600	550	660	24	6	508	115	615	660	527.5	336	163	457	240	240	670	53	140	

FRAME SIZE	C	H	HA	HE	K	L	LL	O	UB	SHAFT EXTENSION								BEARING		
										D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
315SA	216	315	35	430	28	1216	322	180	G1-1/2"	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3
315SB	216	315	35	430	28	1246	322	180	G1-1/2"	80	170	160	5	40	22	71	85	M20	6320C3	6316C3
315MA	216	315	35	430	28	1266	322	180	G2"	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3
315MB	216	315	35	430	28	1296	322	180	4P: G2" 6P: G1-1/2"	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

APPD.	Ben Yang	21-Aug-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> Wuxi, China	DWG NO.	<b>32057R9500</b>
CHKD.	J.LIU	21-Aug-14		Rev. 00	
DWN.	S.CAO	21-Aug-14		6/8	



ISSUED  
21-Aug-14

REVISED

# OUTLINE DIMENSIONS SHEET

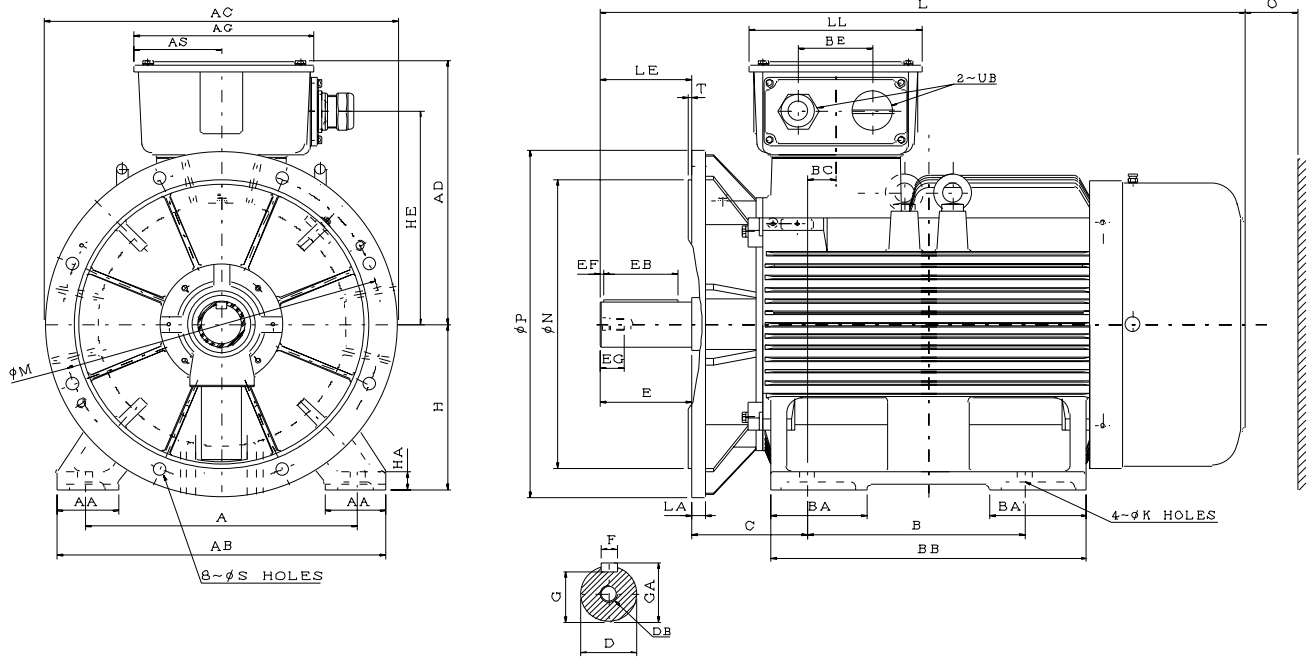
## MARINE 3-PHASE INDUCTION MOTORS

B35 (IM 2001) FRAME NOS. 315LA ~ 315LB

TYPE  
**AEVB2**

PAGE  
29 of 67

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



Dimension in mm

Output (kW)			FRAME SIZE	FLANGE DIMENSION								A	AA	AB	AC	AD	AG	AS	B	BA	BA'	BB	BC	BE
2P	4P	6P		LA	LE	M	N	P	S	T														
160	---	---	315LA	25	140	600	550	660	24	6	508	130	630	660	527.5	336	163	508	230	230	770	53	140	
---	160	110	315LB	25	170	600	550	660	24	6	508	130	630	660	527.5	336	163	508	230	230	770	53	140	
	200	132																						

FRAME SIZE	C	H	HA	HE	K	L	LL	O	UB	SHAFT EXTENSION								BEARING		
										D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
315LA	216	315	45	430	28	1366	322	180	G2"	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3
315LB	216	315	45	430	28	1396	322	180	G2" (6P 110kW/ 132kW: G1-1/2")	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

APPD.	Ben Yang	21-Aug-14
CHKD.	J.LIU	21-Aug-14
DWN.	S.CAO	21-Aug-14

**TECO Electric & Machinery Co., Ltd.**  
Wuxi, China

DWG NO.  
**32057R9500**  
Rev. 00 7/8



ISSUED  
21-Aug-14  
REVISED

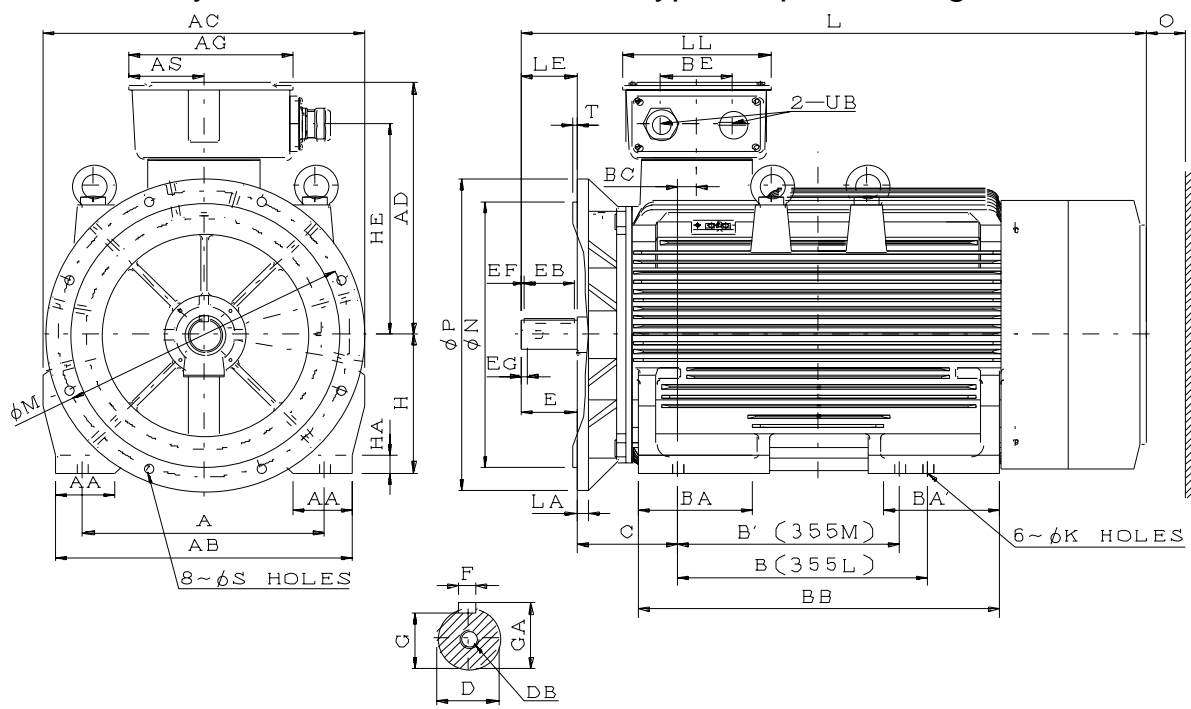
# OUTLINE DIMENSIONS SHEET

## MARINE 3-PHASE INDUCTION MOTORS

**B35 ( IM 2001 )** FRAME NOS. 355MA ~ 355LB

TYPE  
**AEEVB2**  
PAGE  
30 of 67

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



Dimension in mm

Output (kW)			FRAME SIZE	FLANGE DIMENSION								A	AA	AB	AC	AD	AG	AS	B	B'	BA	BA'	BB	BC	BE
2P	4P	6P		LA	LE	M	N	P	S	T															
250	---	---	355MA	30	140	740	680	800	24	6	610	150	750	810	645	412	189	---	560	330	330	860	48	180	
---	250	160 200	355MB	30	170	740	680	800	24	6	610	150	750	810	645	412	189	---	560	330	330	860	48	180	
315	---	---	355LA	30	140	740	680	800	24	6	610	150	750	810	645	412	189	630	---	330	330	910	48	180	
---	315	250	355LB	30	170	740	680	800	24	6	610	150	750	810	645	412	189	630	---	330	330	910	48	180	

FRAME SIZE	C	H	HA	HE	K	L	LL	O	UB	SHAFT EXTENSION								BEARING		
										D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
355MA	254	355	45	540	28	1525	372	230	G2-1/2"	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6318C3
355MB	254	355	45	540	28	1555	372	230	G2-1/2" (6P 160kW; G2")	95	170	160	5	48	25	86	100	M24	6322C3	6322C3
355LA	254	355	45	540	28	1575	372	230	G2-1/2"	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6318C3
355LB	254	355	45	540	28	1605	372	230	G2-1/2"	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	21-Aug-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	<b>32057R9500</b>
CHKD.	J.LIU	21-Aug-14		Rev. 00	
DWN.	S.CAO	21-Aug-14		8/8	



ISSUED  
26-Jun-14  
REVISED

# OUTLINE DIMENSIONS SHEET

## MARINE 3-PHASE INDUCTION MOTORS

### V1 (IM3011) FRAME NOS. 80M ~ 90L

TYPE  
**AEUVB2**  
PAGE  
31 of 67

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

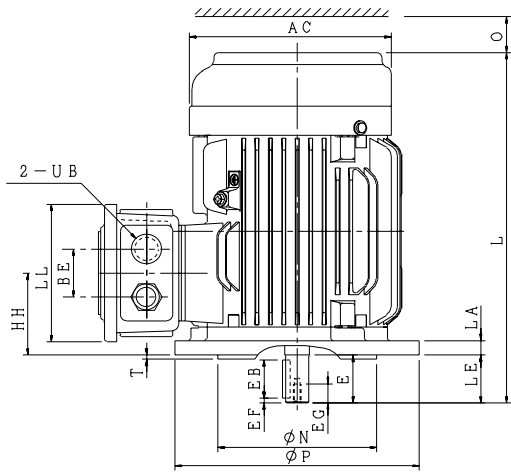


FIG. 1

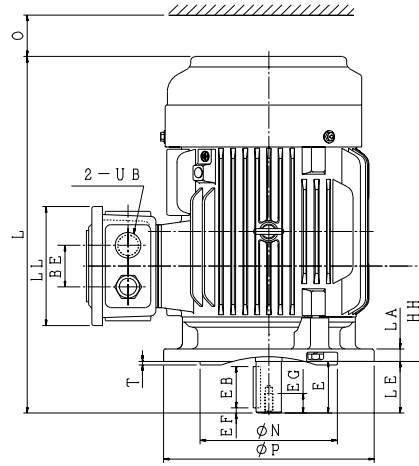
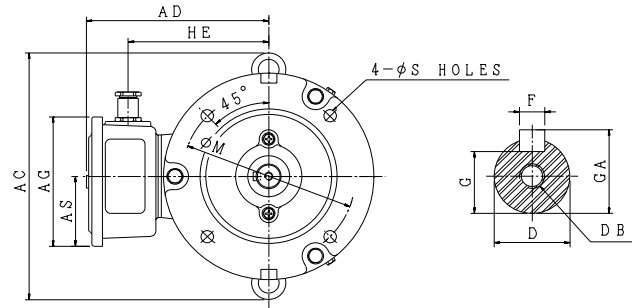
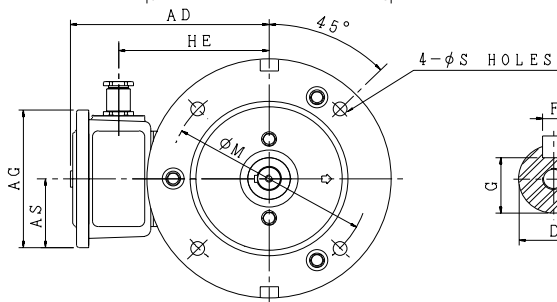


FIG. 2



Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	FLANGE DIMENSION								AC	AD	AG	AS	BE	HE	HH	L
2P	4P	6P	---			LA	LE	M	N	P	S	T									
0.75	0.55	0.55	---	80M	1	12	40	165	130	200	12	3.5	177	163	125	67.5	40	123.5	68.5	293	
1.1	0.75	---	---			12	50	165	130	200	12	3.5	271	173	125	67.5	40	133.5	92	344.5	
1.5	1.1	0.75	---	90S	2	12	50	165	130	200	12	3.5	271	173	125	67.5	40	133.5	92	344.5	
2.2	1.5	1.1	---			12	50	165	130	200	12	3.5	271	173	125	67.5	40	133.5	92	369.5	

FRAME SIZE	LL	O	UB (CG-PF)	SHAFT EXTENSION								BEARING		
				D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
80M	115	40	G3/4"	19	40	32	4	16	6	15.5	21.5	M6	6204ZZ	6204ZZ
90S	115	40	G3/4"	24	50	40	5	19	8	20	27	M8	6205ZZ	6205ZZ
90L	115	40	G3/4"	24	50	40	5	19	8	20	27	M8	6205ZZ	6205ZZ

**Note :** 1. Tolerance of shaft end diameter D : Under  $\phi 19 \sim \phi 24$  : j6 ;  
2. Tolerance of N : j6.

APPD.	K.L.KUO	26-Jun-14
CHKD.	SHITOU	26-Jun-14
DWN.	YINYIN.SHA	26-Jun-14

TECO Electric & Machinery Co., Ltd.  
Wuxi, China

DWG NO.  
**32057R9501**  
Rev. 00





26-Jun-14  
REVISED

# OUTLINE DIMENSIONS SHEET

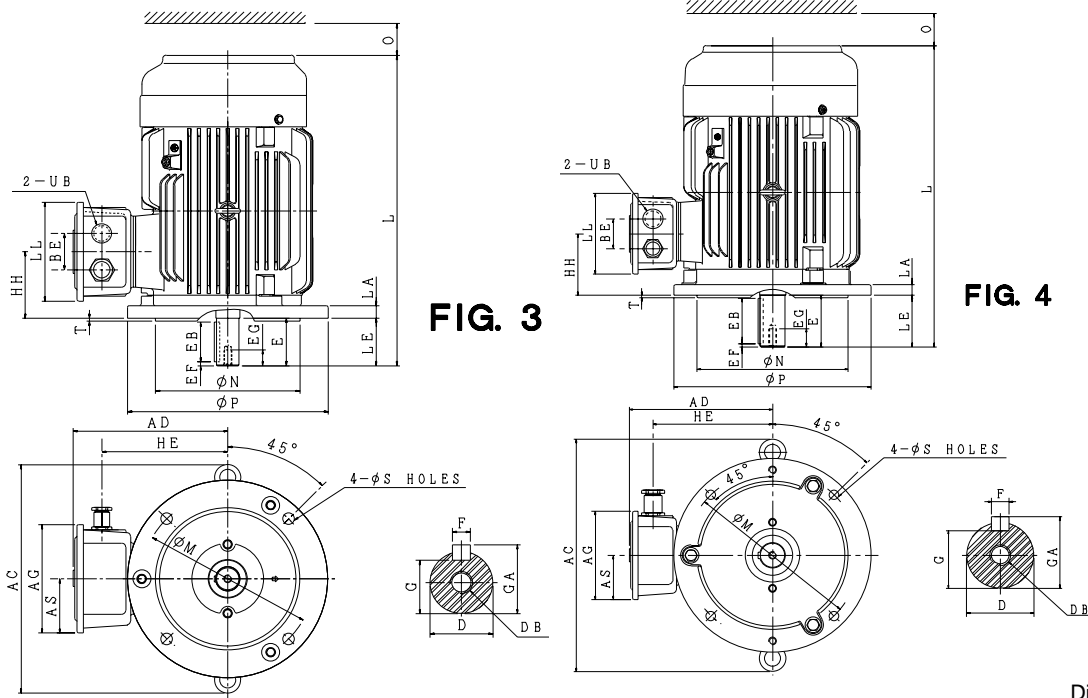
## MARINE 3-PHASE INDUCTION MOTORS

### V1 (IM3011) FRAME NOS. 100L ~ 132M

TYPE  
**AEUVB2**

PAGE  
32 of 67

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



Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	FLANGE DIMENSION						AC	AD	AG	AS	BE	HE	HH	L	LL	O	
2P	4P	6P	---			LA	LE	M	N	P	S											T
3	2.2	1.5	---	100L	4	16	60	215	180	250	14.5	4	288.5	193	147	78.5	50	157	84	392	125	50
---	3	---	---			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4	4	2.2	---	112M	3	15	60	215	180	250	14.5	4	306.5	200.5	147	78.5	50	164.5	98	412.5	125	50
5.5	5.5	3	---	132S	4	16	80	265	230	300	14.5	4	360	218	147	78.5	50	182	95	466	125	50
7.5	---	---	---			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	7.5	4	---	132M	4	16	80	265	230	300	14.5	4	360	218	147	78.5	50	182	95	504	125	50
---	---	5.5	---			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

FRAME SIZE	UB (CG-PF)	SHAFT EXTENSION									BEARING	
		D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
100L	G3/4"	28	60	50	5	22	8	24	31	M10	6206ZZ	6206ZZ
112M	G3/4"	28	60	50	5	22	8	24	31	M10	6306ZZ	6306ZZ
132S	G3/4"	38	80	70	5	28	10	33	41	M12	6308ZZ	6306ZZ
132M	G3/4"	38	80	70	5	28	10	33	41	M12	6308ZZ	6306ZZ

**Note :** 1. Tolerance of shaft end diameter D :  $\phi 28:j6$ ,  $\phi 38:k6$ .  
2. Tolerance of N : j6.

APPD.	K.L.KUO	26-Jun-14
CHKD.	SHITOU	26-Jun-14
DWN.	YINYIN.SHA	26-Jun-14

**TECO Electric & Machinery Co., Ltd.**  
**Wuxi, China**

DWG NO.  
**32057R9501**  
Rev. 00 2/8

無錫設計處  
2015.03.17  
發圖章

ISSUED  
26-Jun-14  
REVISED

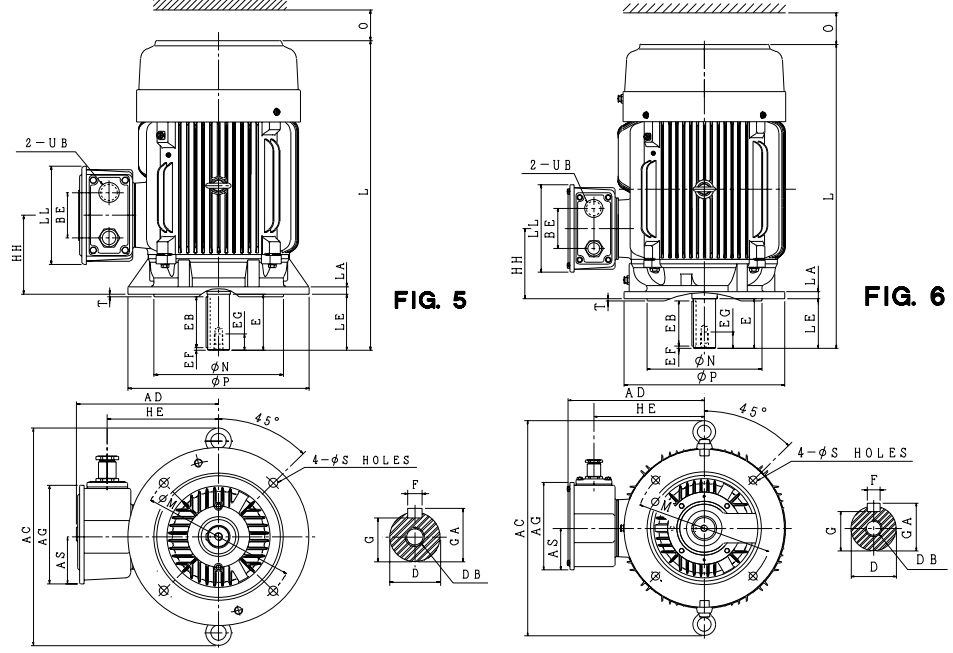
# OUTLINE DIMENSIONS SHEET

## MARINE 3-PHASE INDUCTION MOTORS

### V1 (IM3011) FRAME NOS. 160M ~ 180L

TYPE  
**AEUVB2**  
PAGE  
33 of 67

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



Dimension in mm

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

FRAME SIZE	UB (CG-PF)	SHAFT EXTENSION										BEARING	
		D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END	
160M	G3/4"	42	110	100	5	36	12	37	45	M16	6309ZZ	6307ZZ	
	G1"	42	110	100	5	36	12	37	45	M16	6309ZZ	6307ZZ	
160L	G1"	42	110	100	5	36	12	37	45	M16	6309ZZ	6307ZZ	
	G3/4"	42	110	100	5	36	12	37	45	M16	6309ZZ	6307ZZ	
180M	G1"	48	110	100	5	36	14	42.5	51.5	M16	(6311C3)	(6310C3)	
180L	G1"	48	110	100	5	36	14	42.5	51.5	M16	6311	6310	

**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.

APPD.	K.L.KUO	26-Jun-14
CHKD.	SHITOU	26-Jun-14
DWN.	YINYIN.SHA	26-Jun-14

**TECO Electric & Machinery Co., Ltd.**  
**Wuxi, China**

DWG NO.  
**32057R9501**  
Rev. 00 3/8



ISSUED  
26-Jun-14

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# OUTLINE DIMENSIONS SHEET

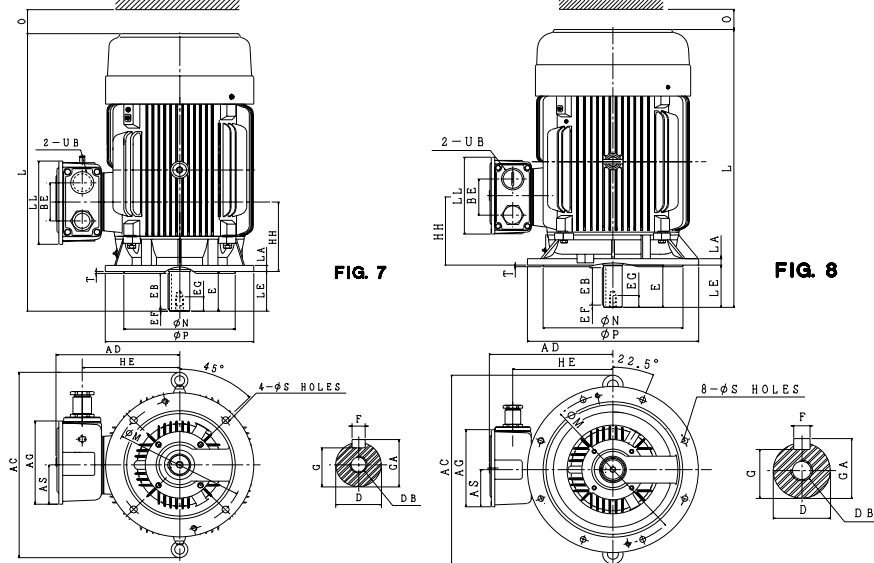
## MARINE 3-PHASE INDUCTION MOTORS

### V1 (IM3011) FRAME NOS. 200L ~ 250M

TYPE  
**AEUVB2**

PAGE  
34 of 67

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



Dimension in mm

Output (kW)				FRAME SIZE	FIG. NO.	FLANGE DIMENSION							AC	AD	AG	AS	BE	HE	HH	L
2P	4P	6P	---			LA	LE	M	N	P	S	T								
30 37	30	18.5 22	---	200L	7	17	110	350	300	400	18.5	5	524	332	231	110.5	106	262	193	770
---	37	---	---	225SC	8	20	140	400	350	450	18.5	5	574	358	231	110.5	106	288	186.5	816
45	---	---	---	225MA		20	110	400	350	450	18.5	5	574	358	231	110.5	106	288	186.5	811
---	45	30	---	225MC		20	140	400	350	450	18.5	5	574	358	231	110.5	106	288	186.5	841
55	---	---	---	250MA		22	140	500	450	550	18.5	5	642	400	255	122.5	119	322	225.5	921
---	55	37	---	250MC		22	140	500	450	550	18.5	5	642	400	255	122.5	119	322	225.5	921

FRAME SIZE	LL	O	UB (CG-PF)	SHAFT EXTENSION									BEARING	
				D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
200L	231	80	G1"	55	110	100	5	42	16	49	59	M20	(6312C3) 6312	(6212C3) 6212
225SC	231	90	G1"	60	140	125	7.5	42	18	53	64	M20	(6312C3) 6313	(6212C3) 6213
225MA	231	90	G1"	55	110	100	5	42	16	49	59	M20		
225MC	231	90	G1"	60	140	125	7.5	42	18	53	64	M20		
250MA	255	105	G1-1/2"	60	140	125	7.5	42	18	53	64	M20	(6313C3)	(6313C3)
250MC	255	105	G1-1/2" G1"	65	140	125	7.5	42	18	58	69	M20	6315	6313

**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.	K.L.KUO	26-Jun-14
CHKD.	SHITOU	26-Jun-14
DWN.	YINYIN.SHA	26-Jun-14

**TECO Electric & Machinery Co., Ltd.**  
**Wuxi, China**

DWG NO.  
**32057R9501**  
Rev. 00 4/8



ISSUED  
21-Aug-14  
REVISED

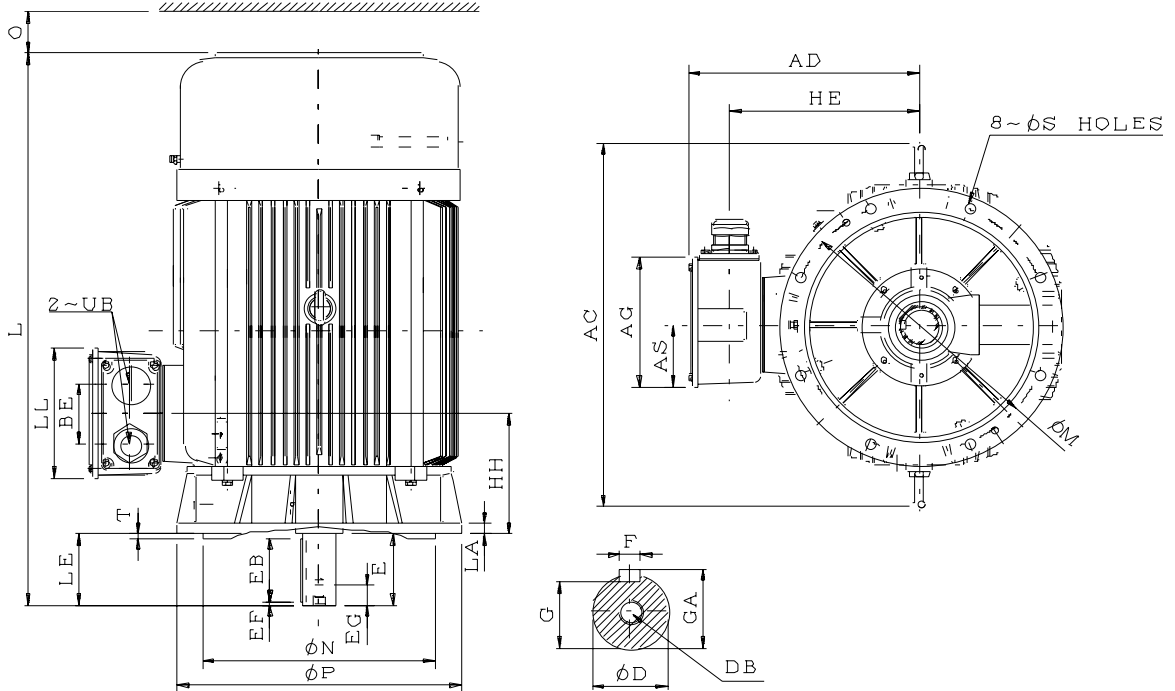
# OUTLINE DIMENSIONS SHEET

## MARINE 3-PHASE INDUCTION MOTORS

### V1 (IM 3011) FRAME NOS. 280SA ~ 280MB

TYPE  
**AEUVB2**  
PAGE  
35 of 67

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



Dimension in mm

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

FRAME SIZE	LL	O	UB	SHAFT EXTENSION									BEARING	
				D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
280SA	255	140	G1-1/2"	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3
280SB	255	140	4P: G1-1/2" 6P: G1"	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	6316C3
280MA	255	140	G1-1/2"	65	140	125	7.5	40	18	58	69	M20	6316C3	6314C3
280MB	255	140	G1-1/2"	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	21-Aug-14
CHKD.	J.LIU	21-Aug-14
DWN.	S.CAO	21-Aug-14

**TECO Electric & Machinery Co., Ltd.**  
Wuxi, China

DWG NO.  
**32057R9501**  
Rev. 00 5/8



ISSUED  
21-Aug-14

REVISED

# OUTLINE DIMENSIONS SHEET

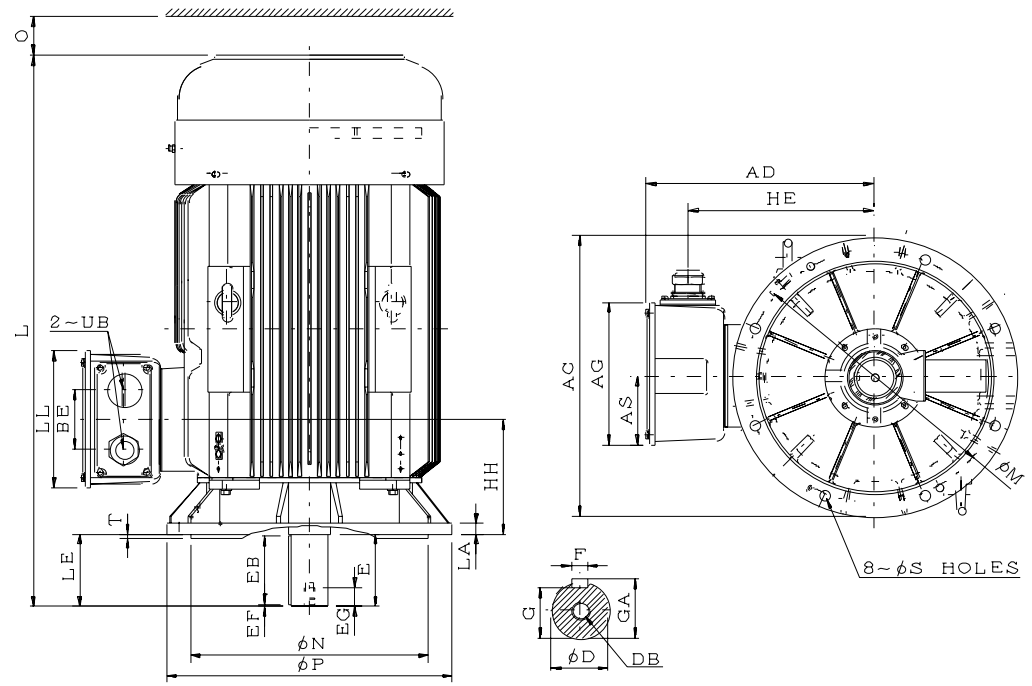
## MARINE 3-PHASE INDUCTION MOTORS

### V1 (IM 3011) FRAME NOS. 315SA ~ 315MB

TYPE  
**AEUVB2**

PAGE  
36 of 67

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



Dimension in mm

Output (kW)			FRAME SIZE	FLANGE DIMENSION							AC	AD	AG	AS	BE	HE	HH	L	LL	O
2P	4P	6P		LA	LE	M	N	P	S	T										
110	---	---	315SA	25	140	600	550	660	24	6	660	527	336	163	140	430	269	1216	322	180
---	110	75	315SB	25	170	600	550	660	24	6	660	527	336	163	140	430	269	1246	322	180
132	---	---	315MA	25	140	600	550	660	24	6	660	527	336	163	140	430	269	1266	322	180
---	132	90	315MB	25	170	600	550	660	24	6	660	527	336	163	140	430	269	1296	322	180

FRAME SIZE	UB	SHAFT EXTENSION									BEARING	
		D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
315SA	G1-1/2"	65	140	125	7.5	40	18	58	69	M20	6316C3	7314B
315SB	G1-1/2"	80	170	160	5	40	22	71	85	M20	6320C3	6316C3
315MA	G2"	65	140	125	7.5	40	18	58	69	M20	6316C3	7314B
315MB	4P: G2" 6P: G1-1/2"	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

APPD.	Ben Yang	21-Aug-14
CHKD.	J.LIU	21-Aug-14
DWN.	S.CAO	21-Aug-14

**TECO Electric & Machinery Co., Ltd.**

**Wuxi, China**

DWG NO.  
**32057R9501**

Rev. 00 6/8



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21-Aug-14

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# OUTLINE DIMENSIONS SHEET

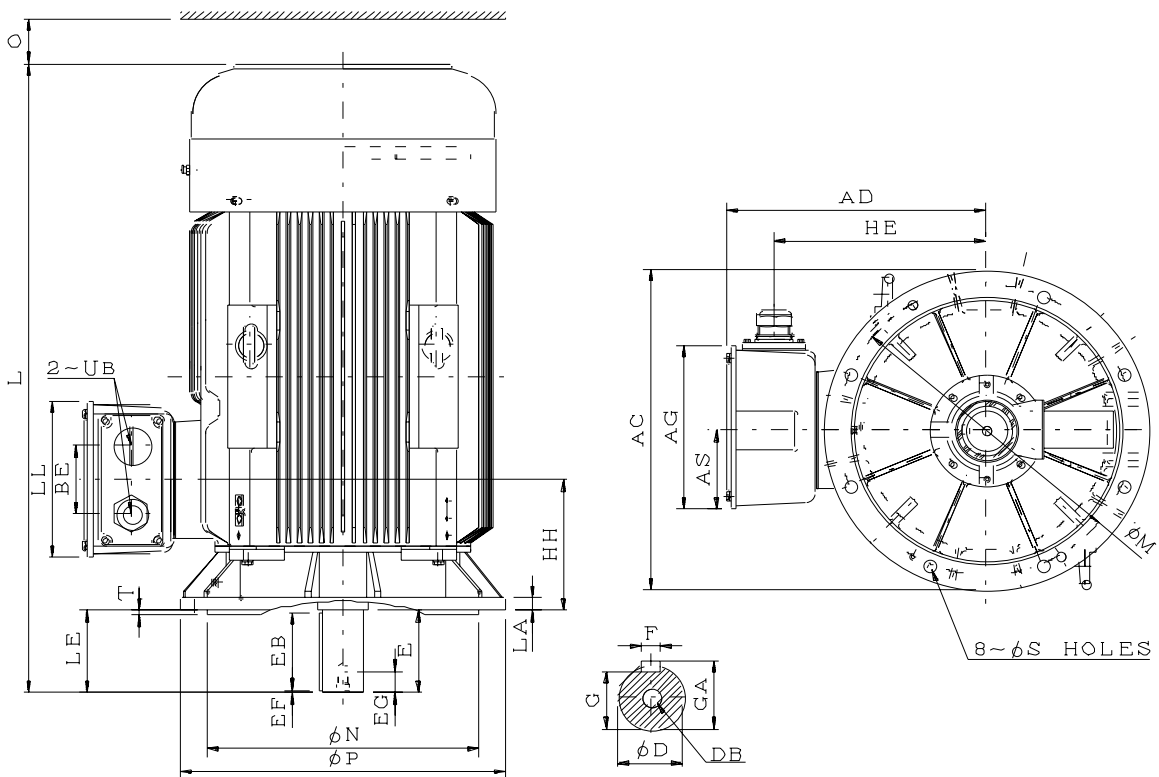
## MARINE 3-PHASE INDUCTION MOTORS

### V1 (IM 3011) FRAME NOS. 315LA ~ 315LB

TYPE  
**AEUVB2**

PAGE  
37 of 67

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



Dimension in mm

Output (kW)			FRAME SIZE	FLANGE DIMENSION							AC	AD	AG	AS	BE	HE	HH	L	LL	O
2P	4P	6P		LA	LE	M	N	P	S	T										
160	---	---	315LA	25	140	600	550	660	24	6	660	527	336	163	140	430	269	1366	322	180
---	160	110	315LB	25	170	600	550	660	24	6	660	527	336	163	140	430	269	1396	322	180

FRAME SIZE	UB	SHAFT EXTENSION									BEARING	
		D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
315LA	G2"	65	140	125	7.5	40	18	58	69	M20	6316C3	7314B
315LB	G2" (6P 110kW/ 132kW: G1-1/2")	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

APPD.	Ben Yang	21-Aug-14
CHKD.	J.LIU	21-Aug-14
DWN.	S.CAO	21-Aug-14

**TECO Electric & Machinery Co., Ltd.**

**Wuxi, China**

DWG NO.  
**32057R9501**

Rev. 00 7/8



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21-Aug-14

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# OUTLINE DIMENSIONS SHEET

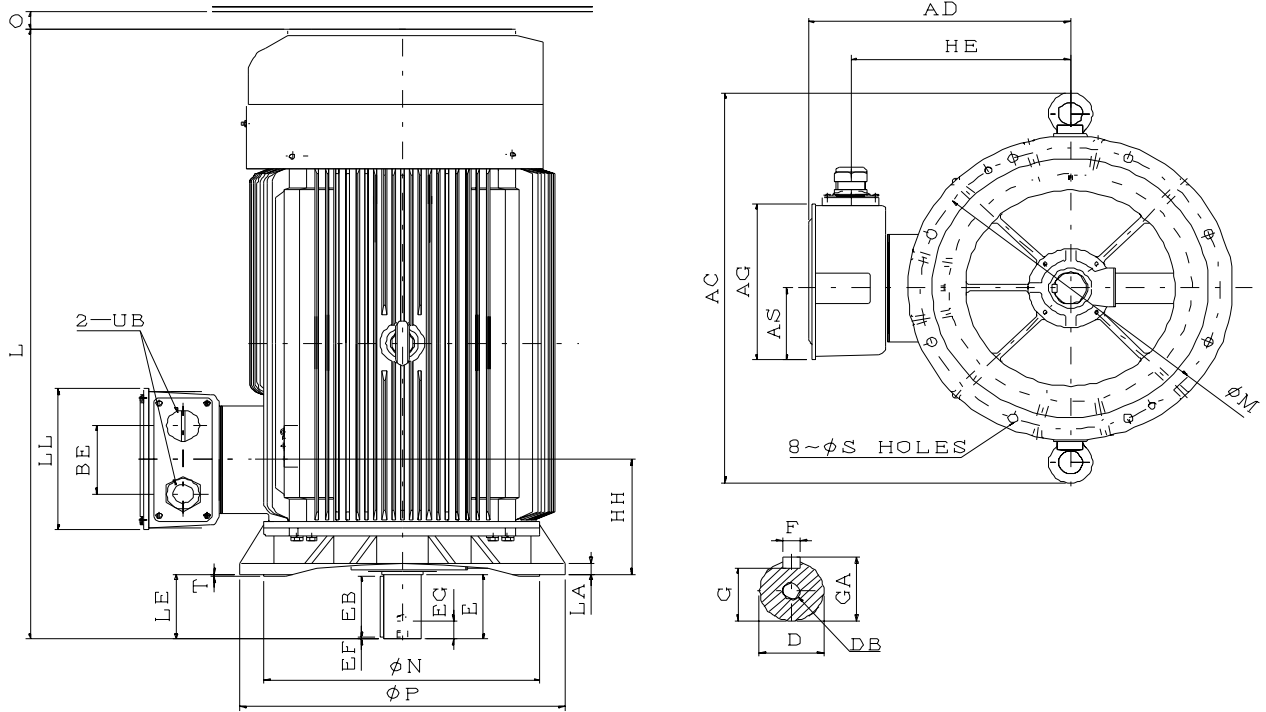
## MARINE 3-PHASE INDUCTION MOTORS

### V1 (IM 3011) FRAME NOS. 355MA ~ 355LB

TYPE  
**AEUVB2**

PAGE  
38 of 67

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



Dimension in mm

Output (kW)			FRAME SIZE	FLANGE DIMENSION							AC	AD	AG	AS	BE	HE	HH	L	LL	O
2P	4P	6P		LA	LE	M	N	P	S	T										
250	---	---	355MA	30	140	740	680	800	24	6	980	645	412	189	180	540	302	1525	372	230
---	250	160 200	355MB	30	170	740	680	800	24	6	980	645	412	189	180	540	302	1555	372	230
315	---	---	355LA	30	140	740	680	800	24	6	980	645	412	189	180	540	302	1575	372	230
---	315	250	355LB	30	170	740	680	800	24	6	980	645	412	189	180	540	302	1605	372	230

FRAME SIZE	UB	SHAFT EXTENSION									BEARING	
		D	E	EB	EF	EG	F	G	GA	DB	DRIVE END	OPPOSITE DRIVE END
355MA	G2-1/2"	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	7318B
355MB	G2-1/2" (6P 160kW: G2")	95	170	160	5	48	25	86	100	M24	6322C3	7322B
355LA	G2-1/2"	75	140	125	7.5	40	20	67.5	79.5	M20	6318C3	7318B
355LB	G2-1/2"	95	170	160	5	48	25	86	100	M24	6322C3	7322B

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

APPD.	Ben Yang	21-Aug-14
CHKD.	J.LIU	21-Aug-14
DWN.	S.CAO	21-Aug-14

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Wuxi, China

DWG NO.  
**32057R9501**  
Rev. 00 8/8



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26-Jun-14

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# SCHEMATIC DRAWING

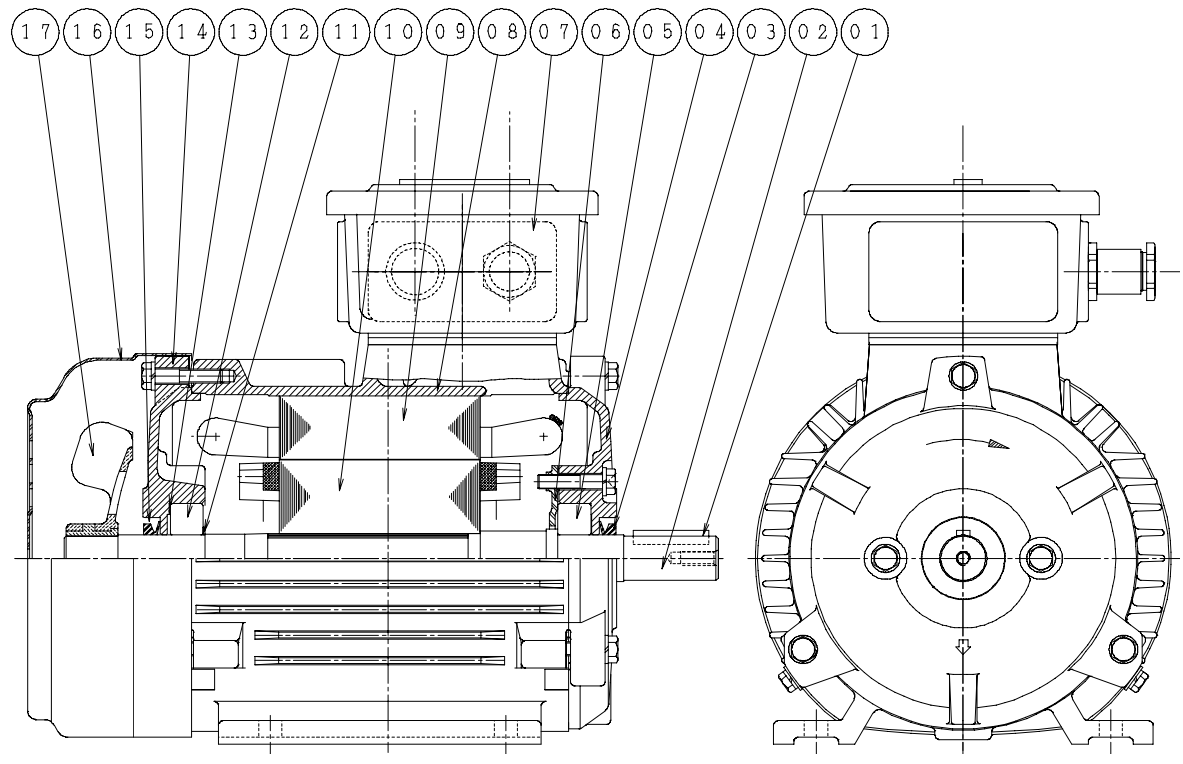
## MARINE 3-PHASE INDUCTION MOTORS

B3 (IM 1001) FRAME NOS. 80M

TYPE  
**AEEVB2**

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39 of 67

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



ITEM	NAME	ITEM	NAME
1	DOUBLE FLAT HEADED KEY	10	ROTOR
2	SHAFT	11	STOP RING - BEARING
3	V RING	12	BEARING
4	END BRACKET	13	PRE - LOAD SPRING
5	BEARING	14	END BRACKET
6	BEARING COVER - INNER	15	V RING
7	TERMINAL BOX	16	FAN COVER
8	FRAME	17	EXTERNAL FAN
9	STATOR		

APPD.	K.L.KUO	26-Jun-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	32057R9502
CHKD.	SHITOU	26-Jun-14		REV. 00	1/7
DWN.	YINYIN.SHA	26-Jun-14			





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26-Jun-14

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# SCHEMATIC DRAWING

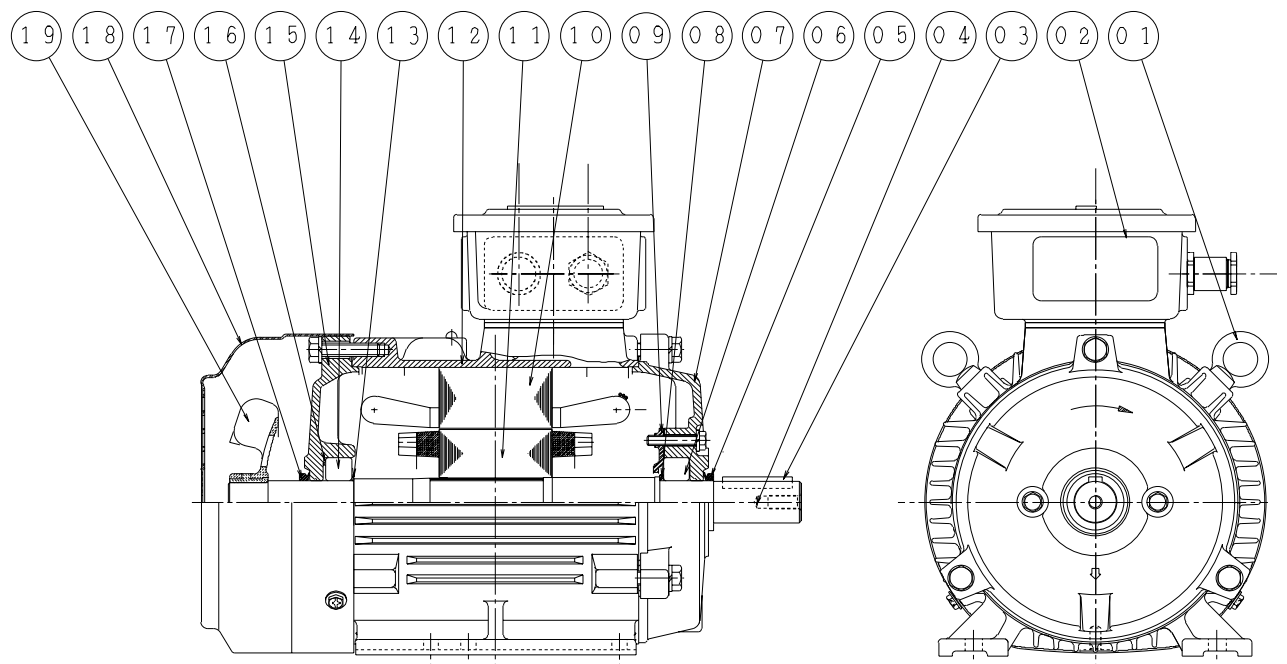
## MARINE 3-PHASE INDUCTION MOTORS

B3 (IM 1001) FRAME NOS. 90S ~ 112M

TYPE  
**AEEVB2**

PAGE  
40 of 67

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



ITEM	NAME	ITEM	NAME
1	EYE BOLT	11	ROTOR
2	TERMINAL BOX	12	FRAME
3	DOUBLE FLAT HEADED KEY	13	STOP RING - BEARING
4	SHAFT	14	BEARING
5	V RING	15	END BRACKET
6	BEARING	16	PRE - LOAD SPRING
7	END BRACKET	17	V RING
8	STOP RING - BEARING	18	FAN COVER
9	BEARING COVER - INNER	19	EXTERNAL FAN
10	STATOR		

APPD.	K.L.KUO	26-Jun-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	<b>32057R9502</b>
CHKD.	SHITOU	26-Jun-14		REV. 00	2/7
DWN.	YINYIN.SHA	26-Jun-14			



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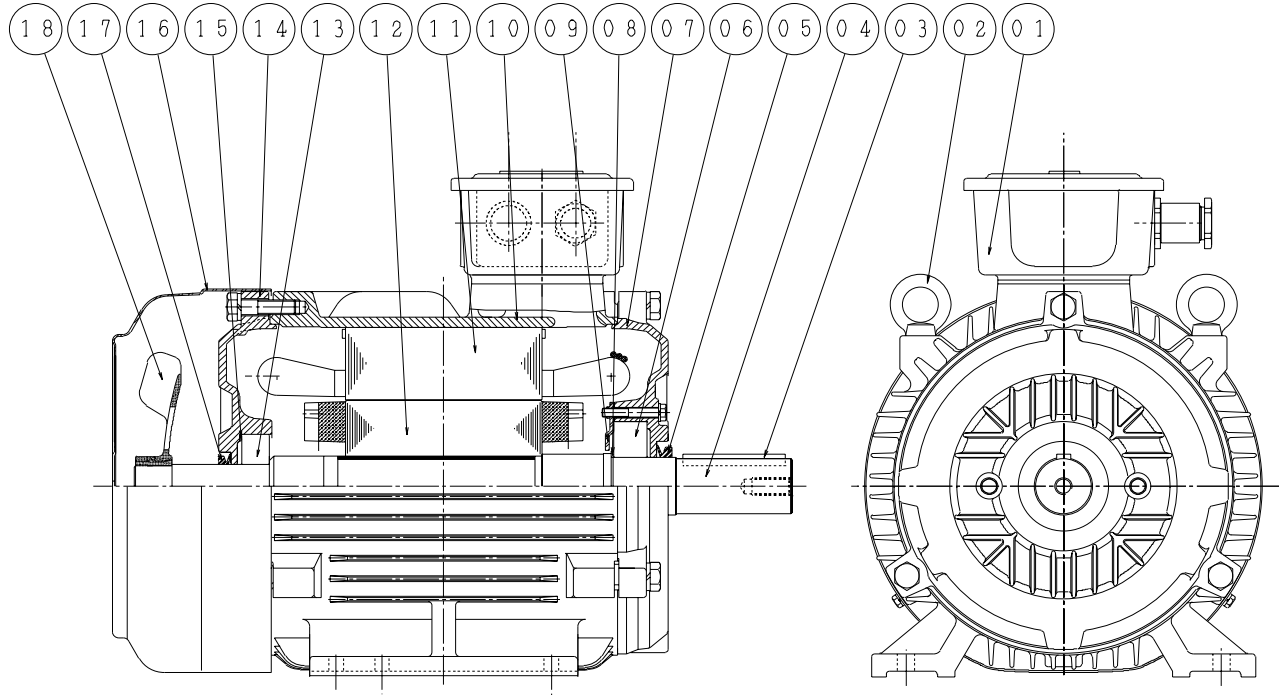
# SCHEMATIC DRAWING

## MARINE 3-PHASE INDUCTION MOTORS

B3 (IM 1001) FRAME NOS. 132S ~ 132M

TYPE	<b>AAEVB2</b>	
PAGE	41	of 67

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



ITEM	NAME	ITEM	NAME
1	TERMINAL BOX	11	STATOR
2	EYE BOLT	12	ROTOR
3	DOUBLE FLAT HEADED KEY	13	BEARING
4	SHAFT	14	END BRACKET
5	V RING	15	PRE - LOAD SPRING
6	BEARING	16	FAN COVER
7	END BRACKET	17	V RING
8	STOP RING - BEARING	18	EXTERNAL FAN
9	BEARING COVER - INNER	19	
10	FRAME	20	

APPD.	K.L.KUO	26-Jun-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	<b>32057R9502</b>
CHKD.	SHITOU	26-Jun-14		REV. 00	
DWN.	YINYIN.SHA	26-Jun-14		3/7	



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26-Jun-14

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# SCHEMATIC DRAWING

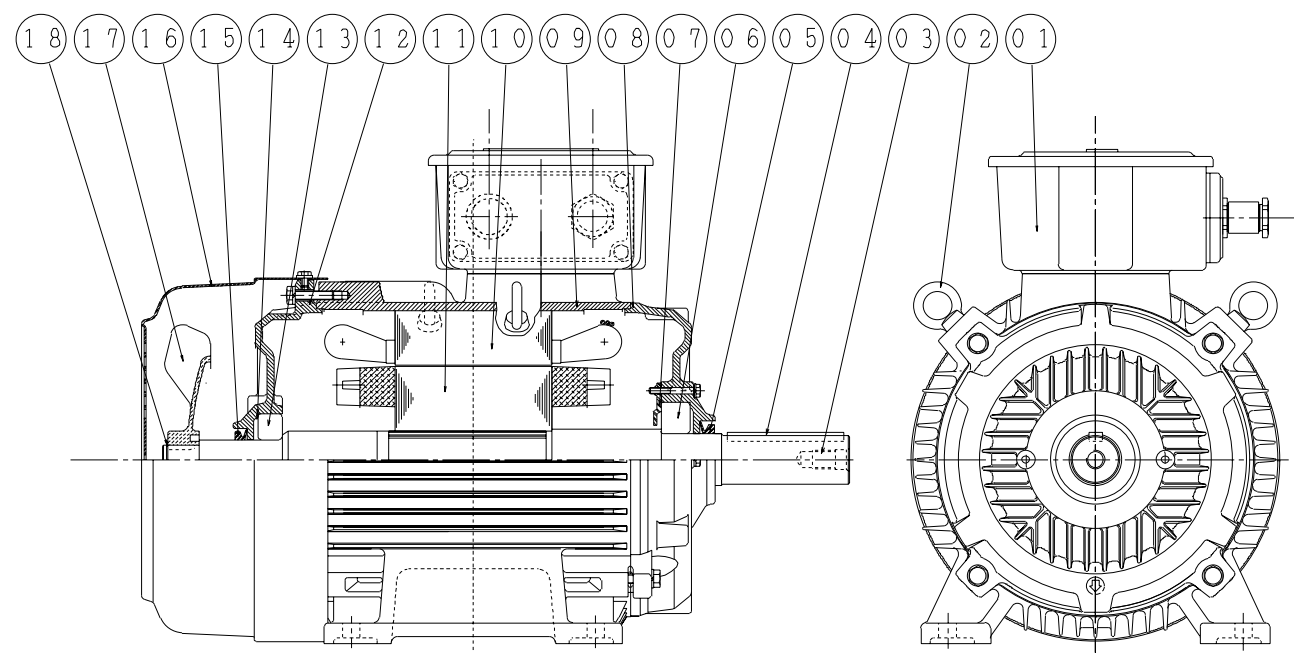
## MARINE 3-PHASE INDUCTION MOTORS

B3 (IM 1001) FRAME NOS. 160M ~ 160L

TYPE  
**AEEVB2**

PAGE  
42 of 67

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



ITEM	NAME	ITEM	NAME
1	TERMINAL BOX	10	STATOR
2	EYE BOLT	11	ROTOR
3	SHAFT	12	END BRACKET
4	DOUBLE FLAT HEADED KEY	13	BEARING
5	V RING	14	PRE - LOAD SPRING
6	BEARING	15	V RING
7	BEARING COVER - INNER	16	FAN COVER
8	END BRACKET	17	EXTERNAL FAN
9	FRAME	18	OUTSIDE RETAINING RING

APPD.	K.L.KUO	26-Jun-14
CHKD.	SHITOU	26-Jun-14
DWN.	YINYIN.SHA	26-Jun-14

**TECO Electric & Machinery Co., Ltd.**

**Wuxi, China**

DWG NO.  
**32057R9502**

REV. 00 4/7



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26-Jun-14

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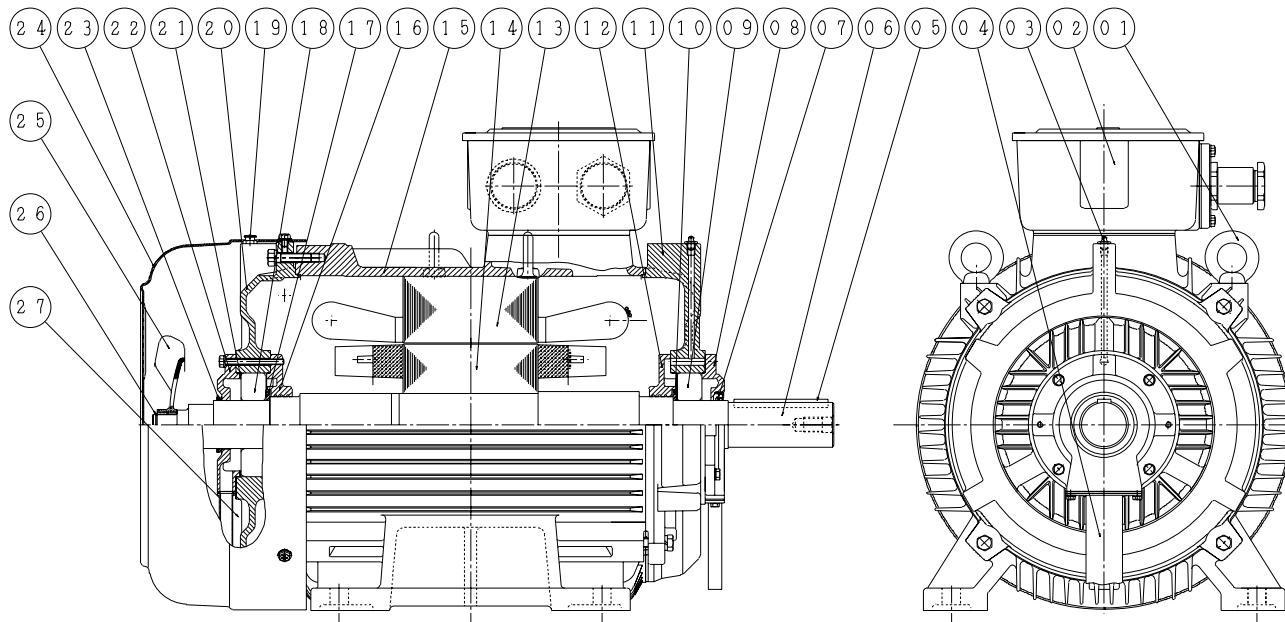
## MARINE 3-PHASE INDUCTION MOTORS

B3 (IM 1001) FRAME NOS. 180M ~ 250M

TYPE  
**AEEVB2**

PAGE  
43 of 67

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



ITEM	NAME	ITEM	NAME
1	EYE BOLT	15	FRAME
2	TERMINAL BOX	16	BEARING COVER-INNER
3	GREASE NIPPLE	17	STOP RING - BEARING
4	OIL DRAIN COVER	18	BEARING
5	DOUBLE FLAT HEADED KEY	19	GREASE NIPPLE
6	SHAFT	20	END BRACKET
7	V RING OR OIL SEAL <sup>(1)</sup>	21	PRE - LOAD SPRING
8	BEARING COVER - OUTER	22	BEARING COVER - OUTER
9	BEARING	23	V RING OR OIL SEAL <sup>(1)</sup>
10	STOP RING - BEARING	24	FAN COVER
11	END BRACKET	25	EXTERNAL FAN
12	BEARING COVER - INNER	26	OUTSIDE RETAINING RING
13	STATOR	27	OIL DRAIN COVER
14	ROTOR		

Note : 1. Item 7 & 23, F#225 ~ F#250 Oil Seal on Both End Shield .

APPD.	K.L.KUO	26-Jun-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	<b>32057R9502</b>
CHKD.	SHITOU	26-Jun-14		REV. 00	
DWN.	YINYIN.SHA	26-Jun-14		5/7	



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21-Aug-14

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# SCHEMATIC DRAWING

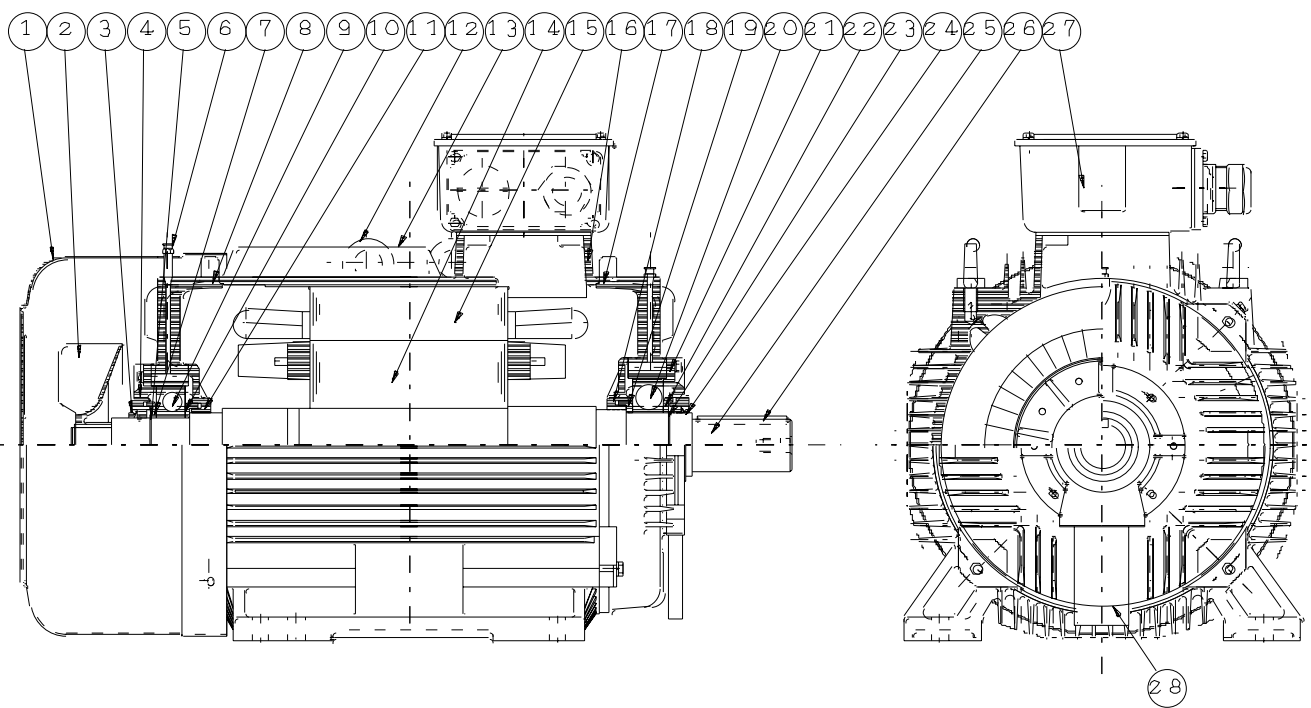
## MARINE 3-PHASE INDUCTION MOTORS

B3 (IM 1001) FRAME NOS. 280S ~ 315L

TYPE  
**AAEVB2**

PAGE  
44 of 67

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



ITEM	NAME	ITEM	NAME
1	FAN COVER	16	FRAME
2	EXTERNAL FAN	17	END BRACKET
3	OIL SEAL	18	BEARING COVER-INNER
4	BEARING COVER - OUTER	19	GREASE FLINGER
5	OUTSIDE RETAINING RING	20	BEARING
6	GREASE NIPPLE	21	BEARING COVER - OUTER
7	GREASE FLINGER	22	GREASE FLINGER
8	END BRACKET	23	OUTSIDE RETAINING RING
9	BEARING	24	OIL SEAL
10	GREASE FLINGER	25	SHAFT
11	BEARING COVER - INNER	26	KEY
12	EYE BOLT	27	TERMINAL BOX
13	NAME PLATE	28	OIL DRAIN COVER
14	ROTOR		
15	STATOR		

APPD.	Ben Yang	21-Aug-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	<span style="font-size: 1.2em; color: blue;"><b>32057R9502</b></span>
CHKD.	J.LIU	21-Aug-14		REV. 00	6/7
DWN.	S.CAO	21-Aug-14			

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21-Aug-14  
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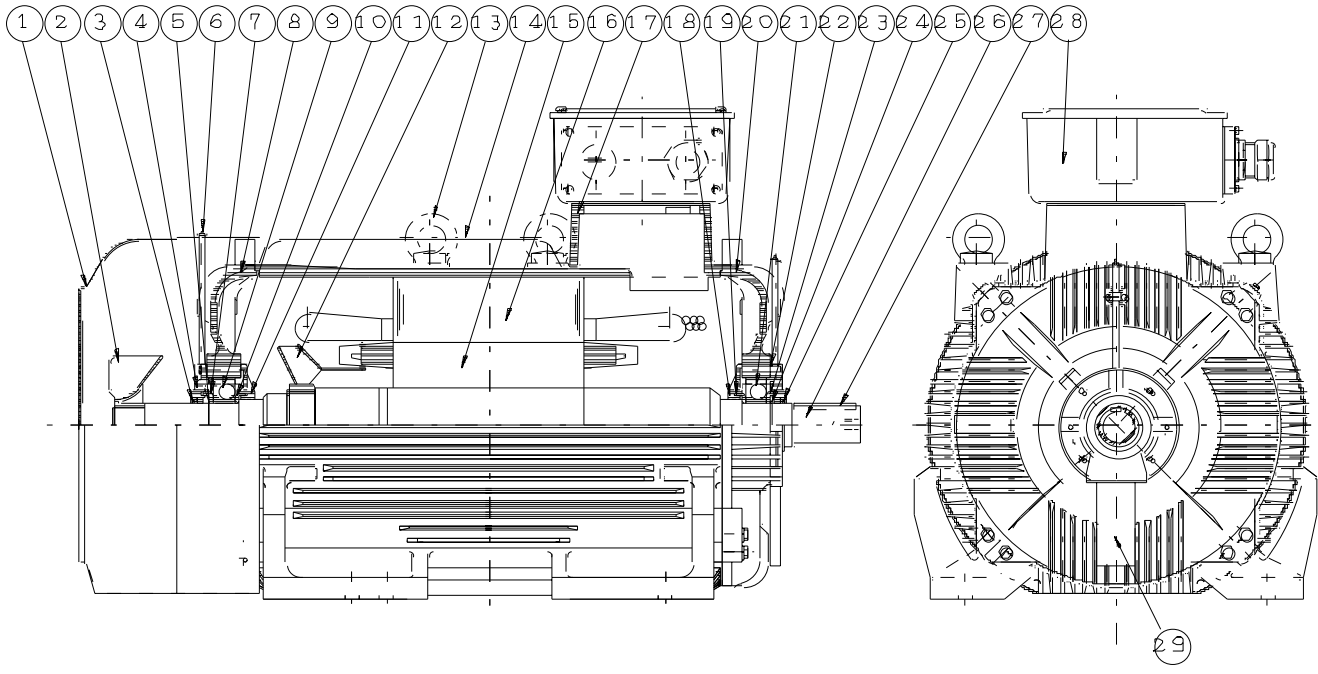
# SCHEMATIC DRAWING

## MARINE 3-PHASE INDUCTION MOTORS

B3 (IM 1001) FRAME NOS. 355M ~ 355L

TYPE  
**AEVB2**  
PAGE  
45 of 67

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



ITEM	NAME	ITEM	NAME
1	FAN COVER	17	FRAME
2	EXTERNAL FAN	18	BEARING COVER - INNER
3	OIL SEAL	19	GREASE FLINGER
4	BEARING COVER-OUTER	20	END BRACKET
5	OUTSIDE RETAINING RING	21	BEARING
6	GREASE NIPPLE	22	RBEARING COVER - OUTER
7	GREASE FLINGER	23	GREASE FLINGE
8	END BRACKET	24	OUTSIDE RETAINING RING
9	BEARING	25	OIL SEAL
10	GREASE FLINGER	26	SHAFT
11	BEARING COVER - INNER	27	KEY
12	INNER FAN	28	TERMINAL BOX
13	EYE BOLT	29	OIL DRAIN COVER
14	NAME PLATE		
15	ROTOR		
16	STATOR		

APPD.	Ben Yang	21-Aug-14	TECO Electric & Machinery Co., Ltd. <b>Wuxi, China</b>	DWG NO.	<b>32057R9502</b>
CHKD.	J.LIU	21-Aug-14		REV. 00	
DWN.	S.CAO	21-Aug-14		7/7	



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26-Jun-14

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# SCHEMATIC DRAWING

## MARINE 3-PHASE INDUCTION MOTORS

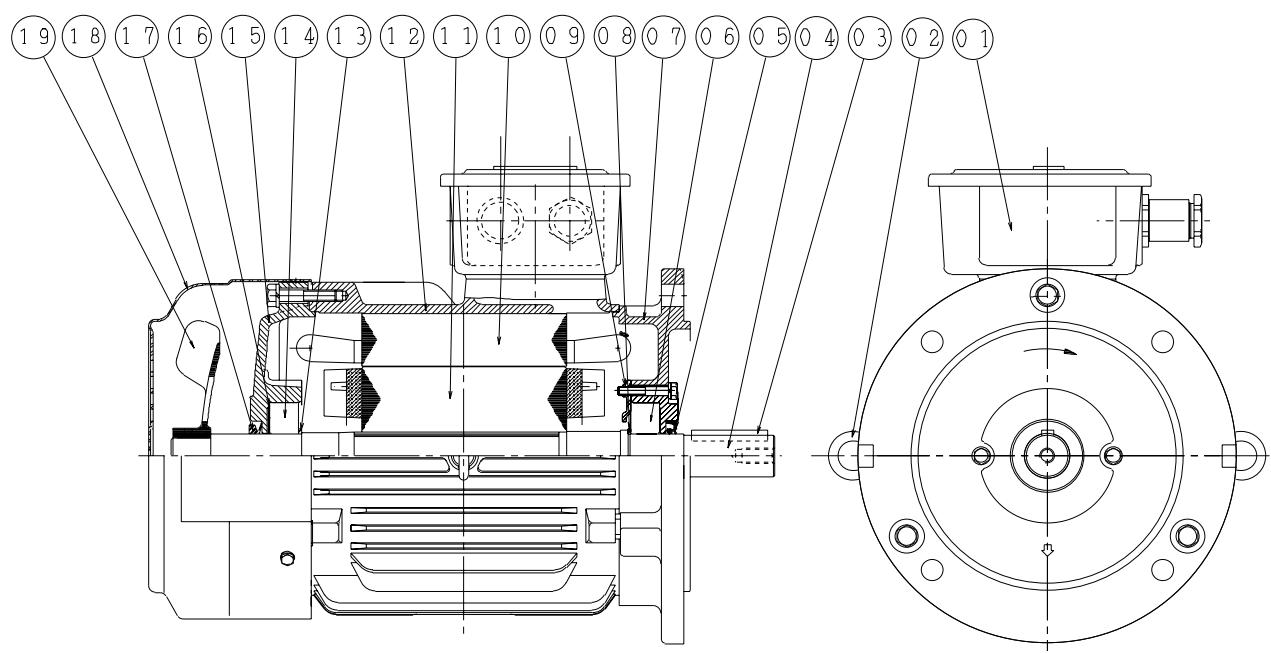
B5 (IM 3001) FRAME NOS. 80M & 112M

TYPE  
**AEUVB2**

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46 of 67

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



ITEM	NAME	ITEM	NAME
1	TERMINAL BOX	11	ROTOR
2	EYE BOLT	12	FRAME
3	KEY	13	STOP RING - BEARING
4	SHAFT	14	BEARING
5	OIL SEAL	15	END BRACKET
6	BEARING	16	PRE - LOAD SPRING
7	FLANGE	17	V RING
8	STOP RING - BEARING	18	FAN COVER
9	BEARING COVER - INNER	19	EXTERNAL FAN
10	STATOR		

Note : 1. There is no eye bolt on frame size 80 .

APPD.	K.L.KUO	26-Jun-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	32057R9503
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DWN.	YINYIN.SHA	26-Jun-14			1/6



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26-Jun-14

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# SCHEMATIC DRAWING

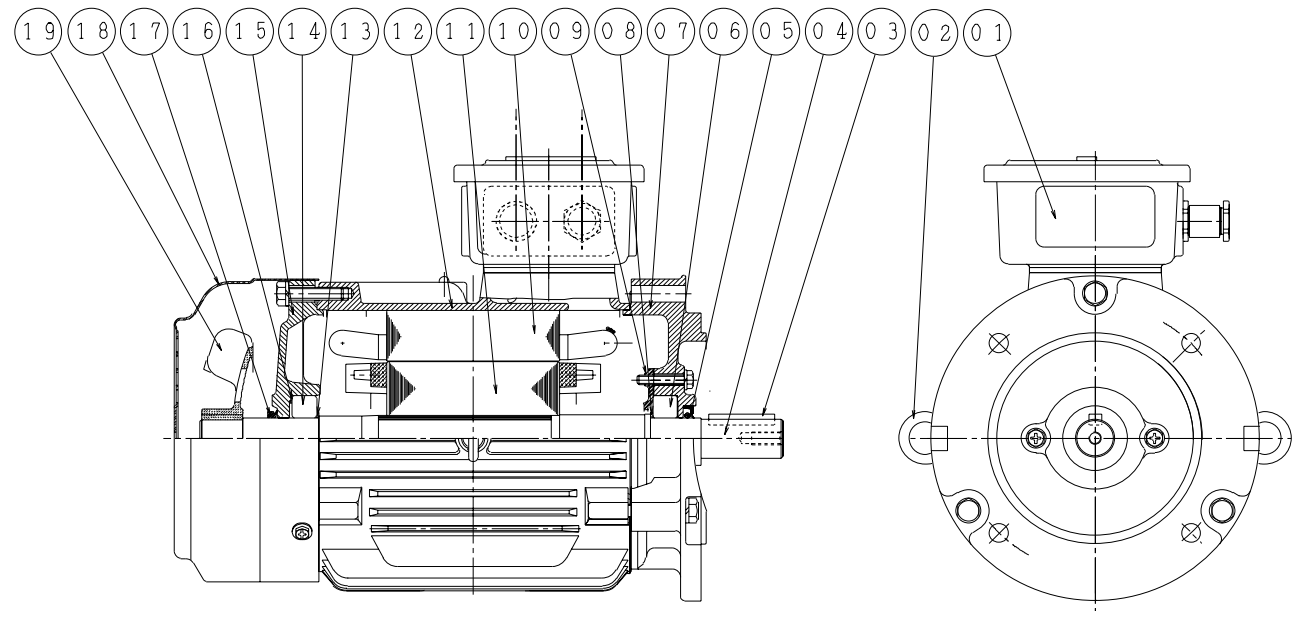
## MARINE 3-PHASE INDUCTION MOTORS

B5 (IM 3001) FRAME NOS. 90S ~ 90L

TYPE  
**AEUVB2**

PAGE  
47 of 67

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



ITEM	NAME	ITEM	NAME
1	TERMINAL BOX	11	ROTOR
2	EYE BOLT	12	FRAME
3	KEY	13	STOP RING - BEARING
4	SHAFT	14	BEARING
5	OIL SEAL	15	END BRACKET
6	BEARING	16	PRE - LOAD SPRING
7	FLANGE	17	V RING
8	STOP RING - BEARING	18	FAN COVER
9	BEARING COVER - INNER	19	EXTERNAL FAN
10	STATOR		

APPD.	K.L.KUO	26-Jun-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	<b>32057R9503</b>
CHKD.	SHITOU	26-Jun-14		Rev. 00	
DWN.	YINYIN.SHA	26-Jun-14		2/6	





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26-Jun-14

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# SCHEMATIC DRAWING

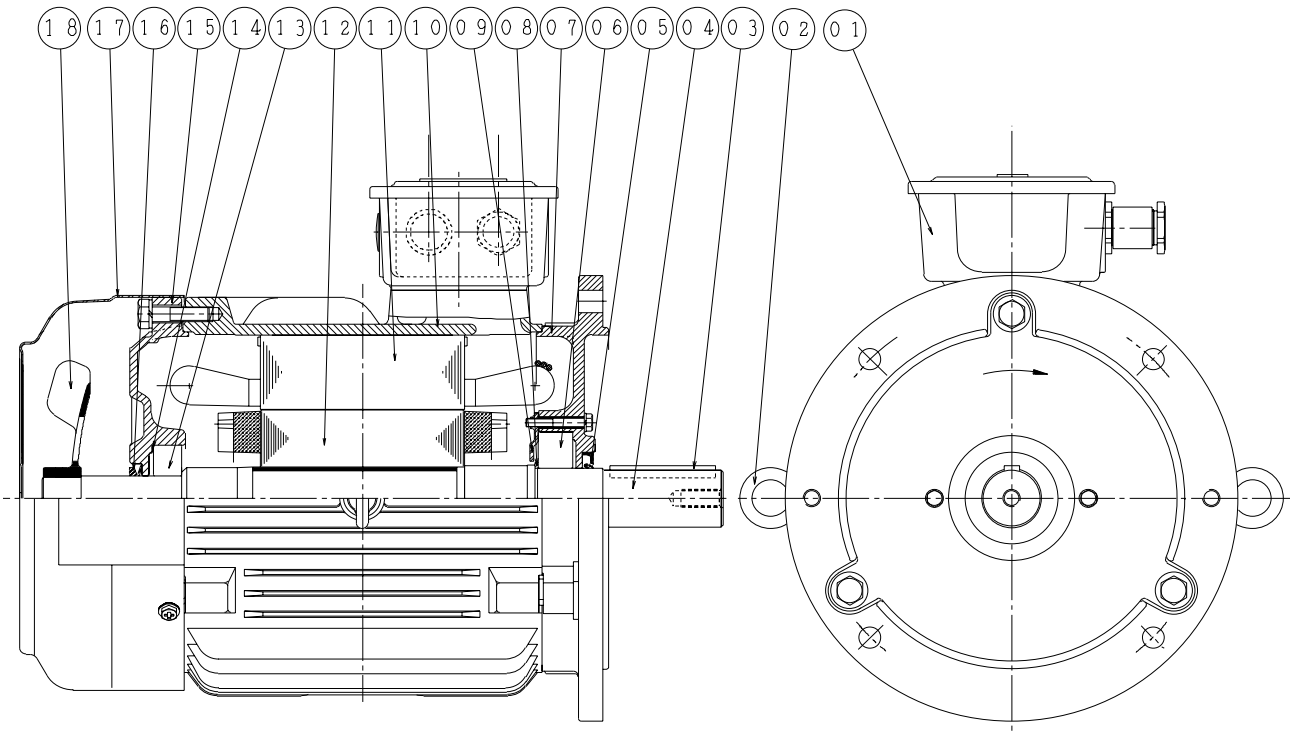
## MARINE 3-PHASE INDUCTION MOTORS

B5 (IM 3001) FRAME NOS. 100L & 132S ~ 132M

TYPE  
**AEUVB2**

PAGE  
48 of 67

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



ITEM	NAME	ITEM	NAME
1	TERMINAL BOX	10	FRAME
2	EYE BOLT	11	STATOR
3	KEY	12	ROTOR
4	SHAFT	13	BEARING
5	OIL SEAL	14	PRE - LOAD SPRING
6	BEARING	15	END BRACKET
7	FLANGE	16	V RING
8	STOP RING - BEARING	17	FAN COVER
9	BEARING COVER - INNER	18	EXTERNAL FAN

APPD.	K.L.KUO	26-Jun-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	<b>32057R9503</b>
CHKD.	SHITOU	26-Jun-14		Rev. 00	
DWN.	YINYIN.SHA	26-Jun-14		3/6	



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26-Jun-14

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# SCHEMATIC DRAWING

## MARINE 3-PHASE INDUCTION MOTORS

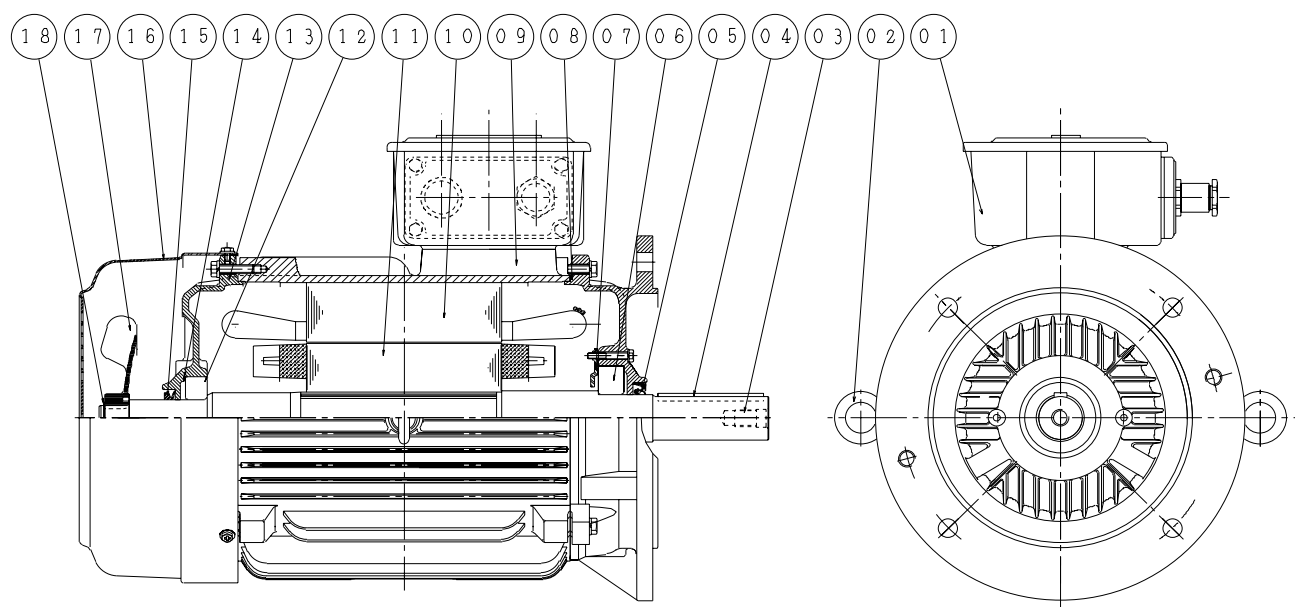
B5 (IM 3001) FRAME NOS. 160M ~ 160L

TYPE  
**AEUVB2**

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49 of 67

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



ITEM	NAME	ITEM	NAME
1	TERMINAL BOX	11	ROTOR
2	EYE BOLT	12	BEARING
3	SHAFT	13	END BRACKET
4	KEY	14	PRE - LOAD SPRING
5	OIL SEAL	15	V RING
6	BEARING	16	FAN COVER
7	BEARING COVER - INNER	17	EXTERNAL FAN
8	FLANGE	18	OUTSIDE RETAINING RING
9	FRAME		
10	STATOR		

APPD.	K.L.KUO	26-Jun-14
CHKD.	SHITOU	26-Jun-14
DWN.	YINYIN.SHA	26-Jun-14

**TECO Electric & Machinery Co., Ltd.**

**Wuxi, China**

DWG NO.  
**32057R9503**

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26-Jun-14

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# SCHEMATIC DRAWING

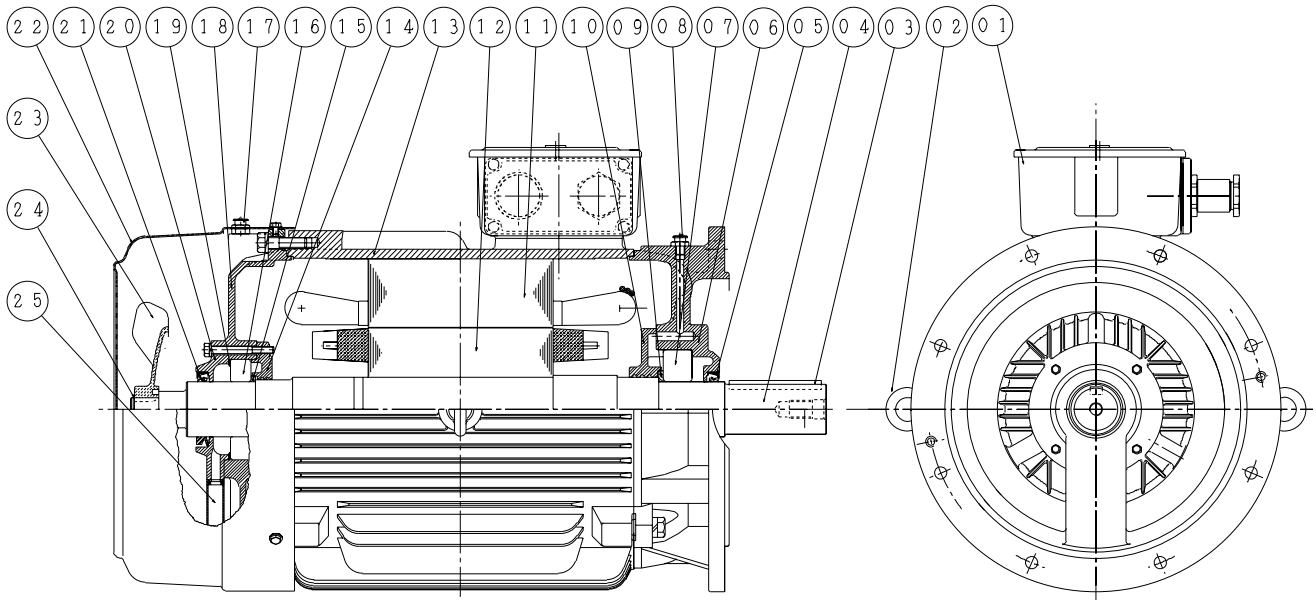
## MARINE 3-PHASE INDUCTION MOTORS

B5 (IM 3001) FRAME NOS. 180M ~ 250M

TYPE  
**AEUVB2**

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50 of 67

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



ITEM	NAME	ITEM	NAME
1	TERMINAL BOX	14	BEARING COVER - INNER
2	EYE BOLT	15	STOP RING - BEARING
3	KEY	16	BEARING
4	SHAFT	17	GREASE NIPPLE
5	OIL SEAL	18	END BRACKET
6	FLANGE	19	PRE - LOAD SPRING
7	BEARING	20	BEARING COVER - OUTER
8	GREASE NIPPLE	21	V RING OR OIL SEAL <sup>(3)</sup>
9	STOP RING - BEARING	22	FAN COVER
10	BEARING COVER - INNER	23	EXTERNAL FAN
11	STATOR	24	OUTSIDE RETAINING RING
12	ROTOR	25	OIL DRAIN COVER
13	FRAME		

Note :

1: There is four holes on flange of frame 180M ~ 200L.

2: There is eight holes on flange of frame 225S ~ 250M.

3. Item 21, F#225 ~ F#250 Oil Seal on Both End Shield .

APPD.	K.L.KUO	26-Jun-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	<b>32057R9503</b>
CHKD.	SHITOU	26-Jun-14		Rev. 00	
DWN.	YINYIN.SHA	26-Jun-14		5/6	



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21-Aug-14

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# SCHEMATIC DRAWING

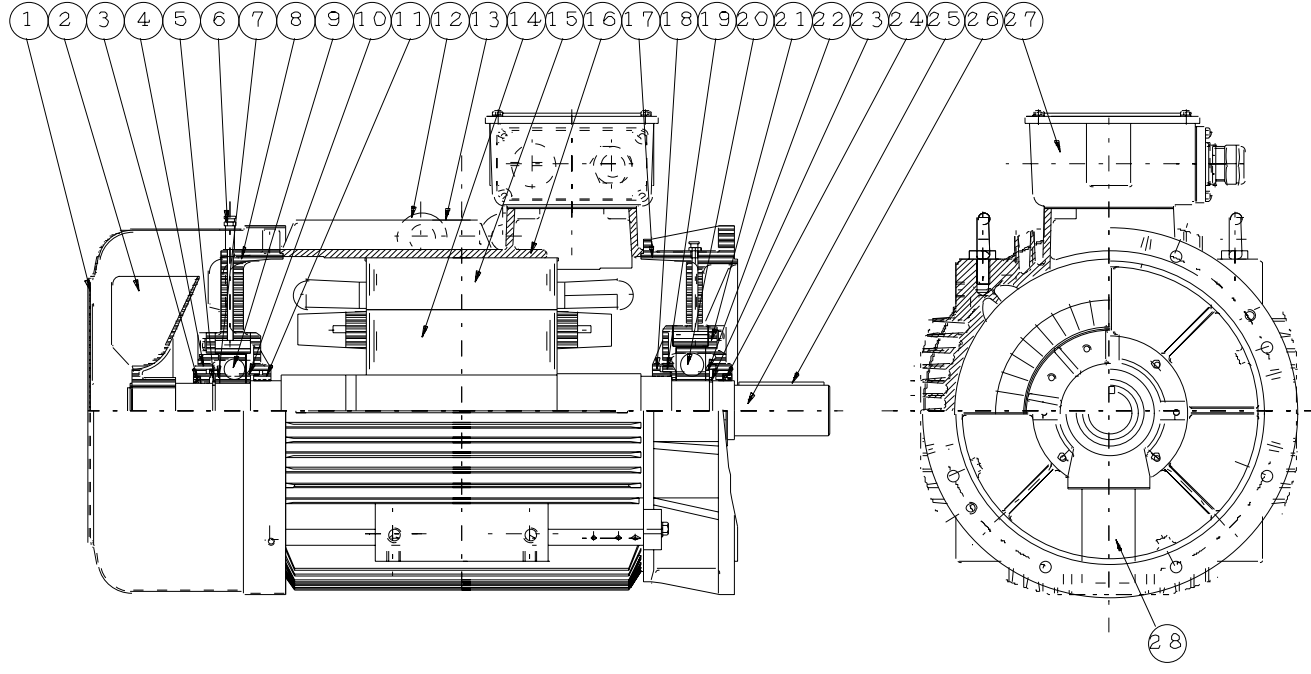
## MARINE 3-PHASE INDUCTION MOTORS

B5 (IM 3001) FRAME NOS. 280S ~ 280M

TYPE  
**AEUVB2**

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51 of 67

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



ITEM	NAME	ITEM	NAME
1	FAN COVER	16	FRAME
2	EXTERNAL FAN	17	FLANGE
3	OIL SEAL	18	BEARING COVER - INNER
4	BEARING COVER - OUTER	19	GREASE FLINGER
5	OUTSIDE RETAINING RING	20	BEARING
6	GREASE NIPPLE	21	BEARING COVER - OUTER
7	GREASE FLINGER	22	GREASE FLINGER
8	END BRACKET	23	OUTSIDE RETAINING RING
9	BEARING	24	OIL SEAL
10	GREASE FLINGER	25	SHAFT
11	BEARING COVER - INNER	26	KEY
12	EYE BOLT	27	TERMINAL BOX
13	NAME PLATE	28	OIL DRAIN COVER
14	ROTOR		
15	STATOR		

APPD.	Ben Yang	21-Aug-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	<b>32057R9503</b>
CHKD.	J.LIU	21-Aug-14		REV. 00	6/6
DWN.	S.CAO	21-Aug-14			



ISSUED  
26-Jun-14

REVISED

# SCHEMATIC DRAWING

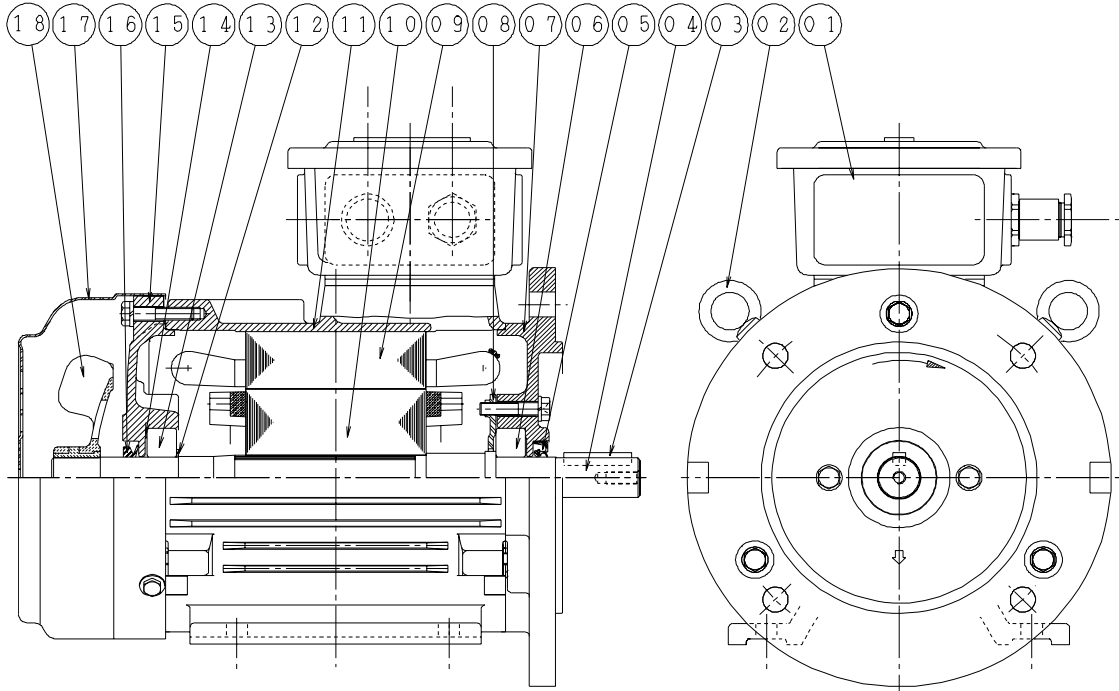
## MARINE 3-PHASE INDUCTION MOTORS

B35 (IM 2001) FRAME NOS. 80M & 112M

TYPE  
**AEEVB2**

PAGE  
52 of 67

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



ITEM	NAME	ITEM	NAME
1	TERMINAL BOX	10	ROTOR
2	EYE BOLT	11	FRAME
3	DOUBLE FLAT HEADED KEY	12	STOP RING - BEARING
4	SHAFT	13	BEARING
5	OIL SEAL	14	PRE - LOAD SPRING
6	BEARING	15	END BRACKET
7	FLANGE	16	V RING
8	BEARING COVER - INNER	17	FAN COVER
9	STATOR	18	EXTERNAL FAN

Note : 1. There is no eye bolt on frame size 80 .

APPD.	K.L.KUO	26-Jun-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	<b>32057R9504</b>
CHKD.	SHITOU	26-Jun-14		Rev. 00	1/7
DWN.	YINYIN.SHA	26-Jun-14			



ISSUED	26-Jun-14
REVISED	

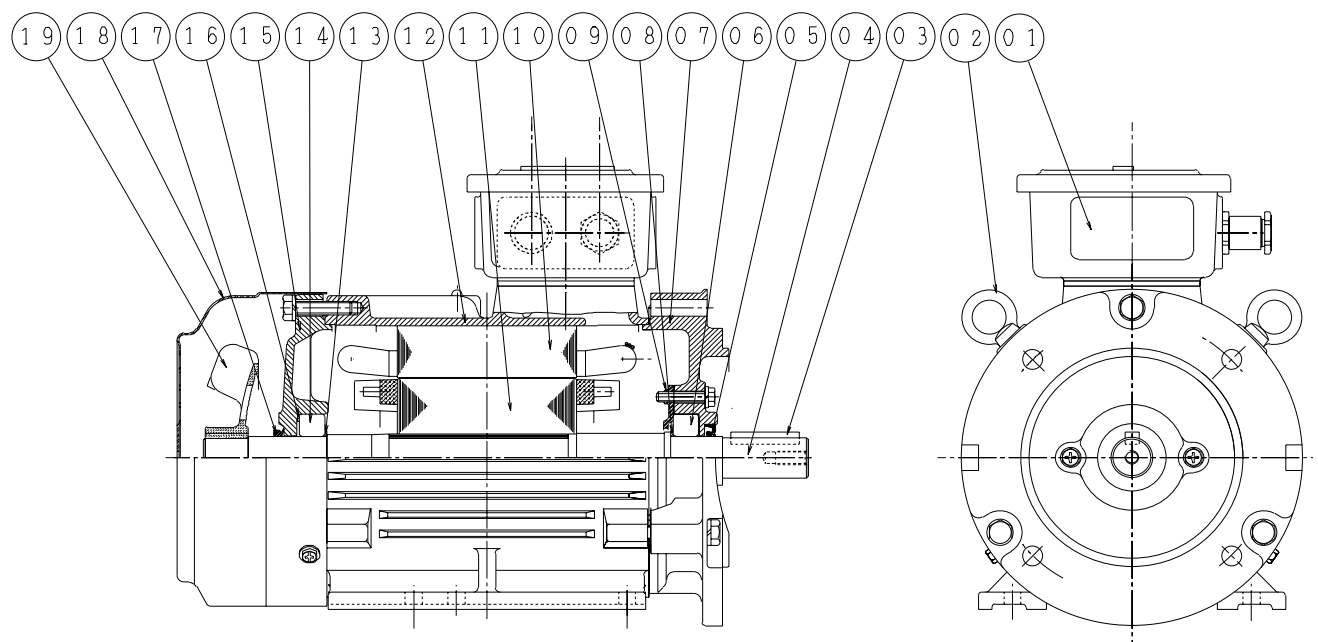
# SCHEMATIC DRAWING

## MARINE 3-PHASE INDUCTION MOTORS

B35 (IM 2001) FRAME NOS. 90S ~ 90L

TYPE	<b>AEEVB2</b>	
PAGE	53	of 67

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



ITEM	NAME	ITEM	NAME
1	TERMINAL BOX	11	ROTOR
2	EYE BOLT	12	FRAME
3	DOUBLE FLAT HEADED KEY	13	STOP RING - BEARING
4	SHAFT	14	BEARING
5	OIL SEAL	15	END BRACKET
6	BEARING	16	PRE - LOAD SPRING
7	FLANGE	17	V RING
8	STOP RING - BEARING	18	FAN COVER
9	BEARING COVER - INNER	19	EXTERNAL FAN
10	STATOR		

APPD.	K.L.KUO	26-Jun-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	<b>32057R9504</b>
CHKD.	SHITOU	26-Jun-14		Rev. 00	
DWN.	YINYIN.SHA	26-Jun-14		2/7	



ISSUED  
26-Jun-14

REVISED

# SCHEMATIC DRAWING

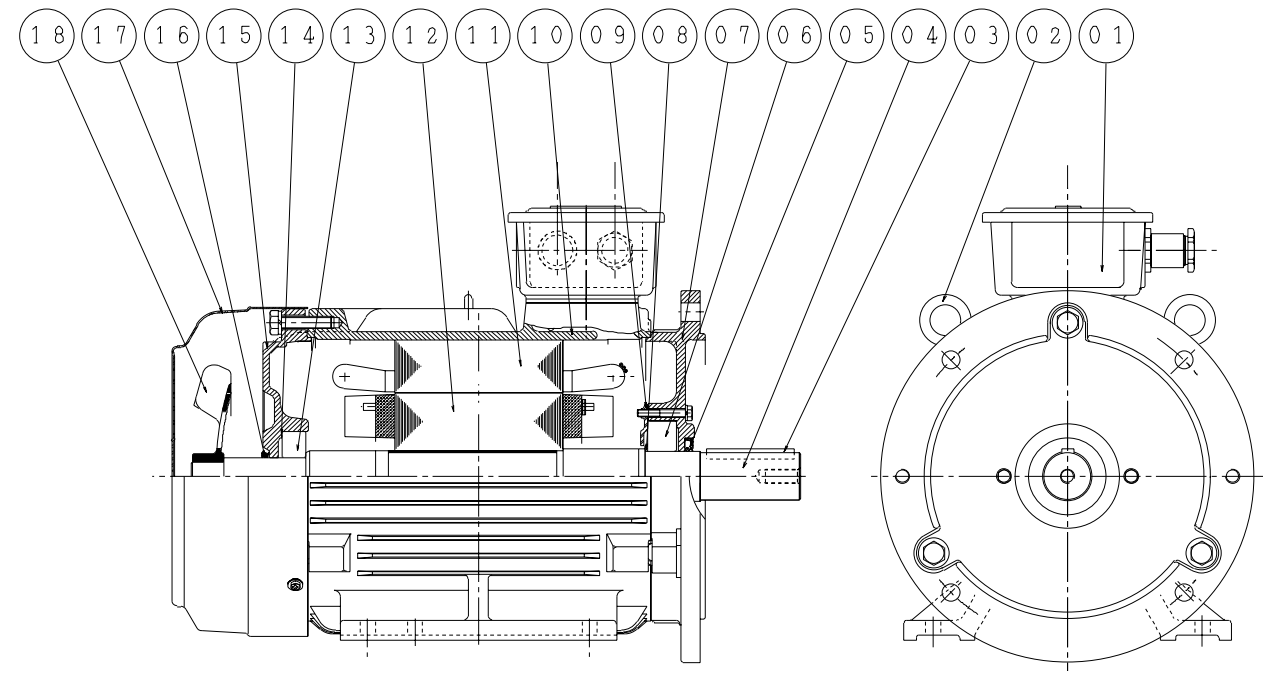
## MARINE 3-PHASE INDUCTION MOTORS

B35 (IM 2001) FRAME NOS. 100L & 132S ~ 132M

TYPE  
**AEEVB2**

PAGE  
54 of 67

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



ITEM	NAME	ITEM	NAME
1	TERMINAL BOX	10	FRAME
2	EYE BOLT	11	STASOR
3	DOUBLE FLAT HEADED KEY	12	ROTOR
4	SHAFT	13	BEARING
5	OIL SEAL	14	PRE - LOAD SPRING
6	BEARING	15	END BRACKET
7	FLANGE	16	V RING
8	STOP RING - BEARING	17	FAN COVER
9	BEARING COVER - INNER	18	EXTERNAL FAN

APPD.	K.L.KUO	26-Jun-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	32057R9504
CHKD.	SHITOU	26-Jun-14		Rev. 00	3/7
DWN.	YINYIN.SHA	26-Jun-14			



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26-Jun-14

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# SCHEMATIC DRAWING

## MARINE 3-PHASE INDUCTION MOTORS

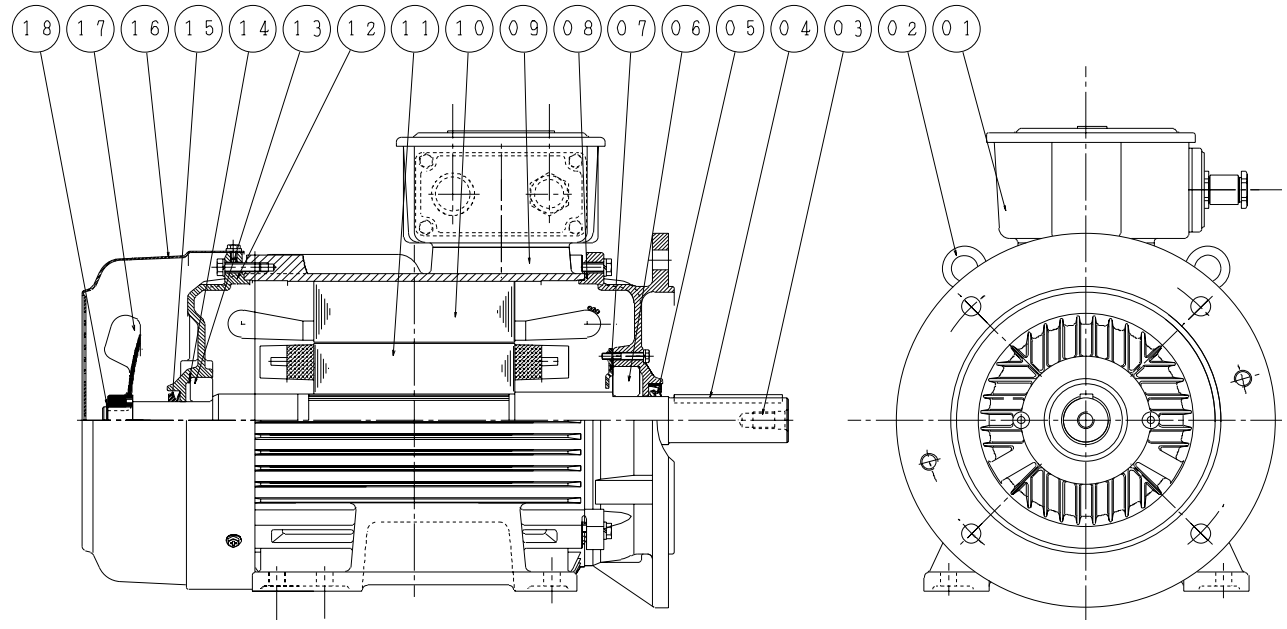
B35 (IM 2001) FRAME NOS. 160M ~ 160L

TYPE  
**AAEVB2**

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PAGE  
55 of 67

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



ITEM	NAME	ITEM	NAME
1	TERMINAL BOX	11	ROTOR
2	EYE BOLT	12	END BRACKET
3	SHAFT	13	BEARING
4	DOUBLE FLAT HEADED KEY	14	PRE - LOAD SPRING
5	OIL SEAL	15	V RING
6	BEARING	16	FAN COVER
7	BEARING COVER - INNER	17	EXTERNAL FAN
8	FLANGE	18	OUTSIDE RETAINING RING
9	FRAME		
10	STATOR		

APPD.	K.L.KUO	26-Jun-14
CHKD.	SHITOU	26-Jun-14
DWN.	YINYIN.SHA	26-Jun-14

**TECO Electric & Machinery Co., Ltd.**  
**Wuxi, China**

DWG NO.  
**32057R9504**

Rev. 00 4/7





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26-Jun-14

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# SCHEMATIC DRAWING

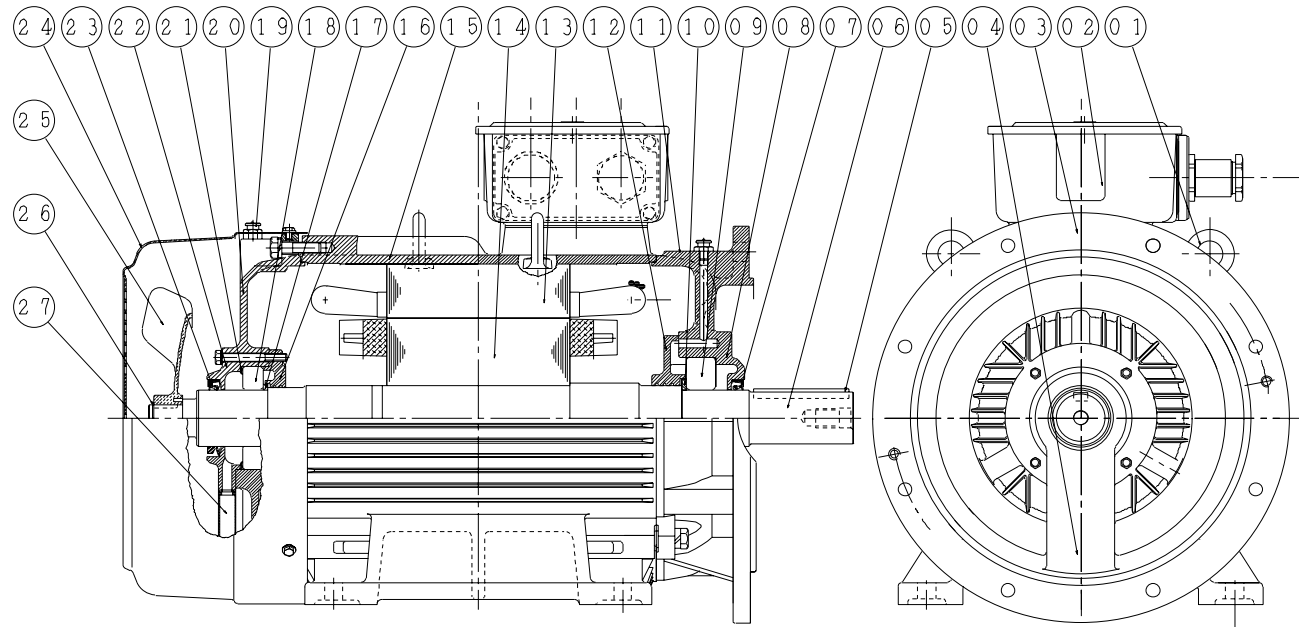
## MARINE 3-PHASE INDUCTION MOTORS

B35 (IM 2001) FRAME NOS. 180M ~ 250M

TYPE  
**AAEVB2**

PAGE  
56 of 67

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



ITEM	NAME	ITEM	NAME
1	EYE BOLT	15	FRAME
2	TERMINAL BOX	16	BEARING COVER - INNER
3	GREASE NIPPLE	17	STOP RING - BEARING
4	OIL DRAIN COVER	18	BEARING
5	DOUBLE FLAT HEADED KEY	19	GREASE NIPPLE
6	SHAFT	20	END BRACKET
7	OIL SEAL	21	PRE - LOAD SPRING
8	BEARING COVER - OUTER	22	BEARING COVER - OUTER
9	BEARING	23	V RING OR OIL SEAL <sup>(3)</sup>
10	STOP RING - BEARING	24	FAN COVER
11	FLANGE	25	EXTERNAL FAN
12	BEARING COVER - INNER	26	OUTSIDE RETAINING RING
13	STATOR	27	OIL DRAIN COVER
14	ROTOR		

Note :

- 1: There is four holes on flange of frame 180M ~ 200L.
- 2: There is eight holes on flange of frame 225S ~ 250M.
3. Item 23, F#225 ~ F#250 Oil Seal on Both End Shield .

APPD.	K.L.KUO	26-Jun-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	<span style="font-size: 1.2em; color: blue;"><b>32057R9504</b></span>
CHKD.	SHITOU	26-Jun-14		Rev. 00	5/7
DWN.	YINYIN.SHA	26-Jun-14			



ISSUED  
21-Aug-14

REVISED

# SCHEMATIC DRAWING

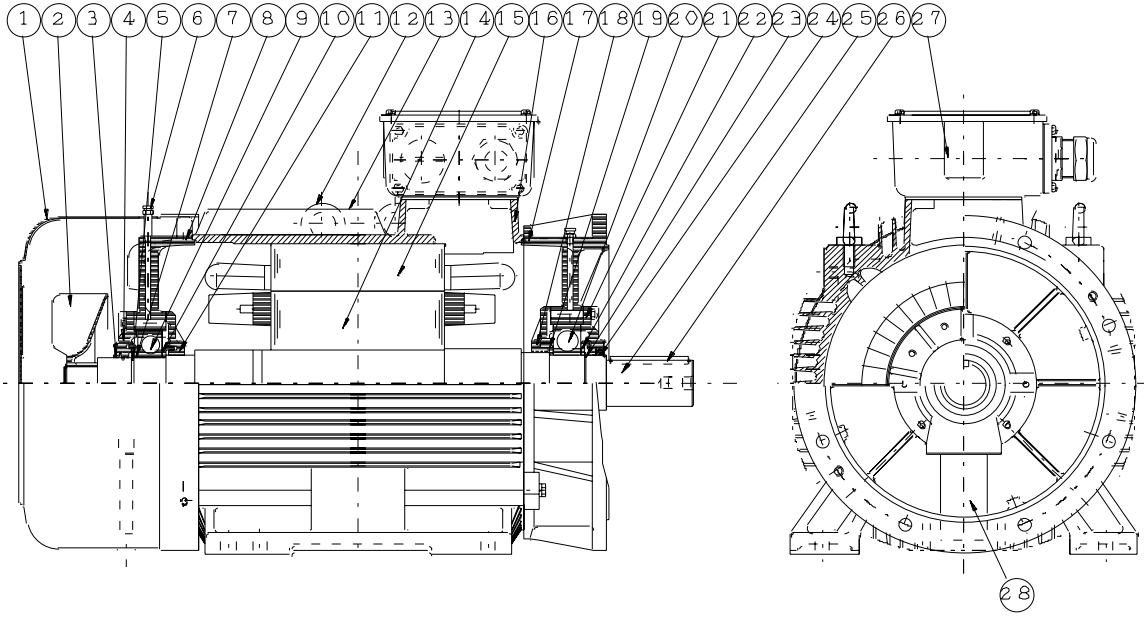
## MARINE 3-PHASE INDUCTION MOTORS

B35 (IM 2001) FRAME NOS. 280S ~ 315L

TYPE  
**AEEVB2**

PAGE  
57 of 67

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



ITEM	NAME	ITEM	NAME
1	FAN COVER	16	FRAME
2	EXTERNAL FAN	17	FLANGE
3	OIL SEAL	18	BEARING COVER - INNER
4	BEARING COVER - OUTER	19	GREASE FLINGER
5	OUTSIDE RETAINING RING	20	BEARING
6	GREASE NIPPLE	21	BEARING COVER - OUTER
7	GREASE FLINGER	22	GREASE FLINGER
8	END BRACKET	23	OUTSIDE RETAINING RING
9	BEARING	24	OIL SEAL
10	GREASE FLINGER	25	SHAFT
11	BEARING COVER - INNER	26	KEY
12	EYE BOLT	27	TERMINAL BOX
13	NAME PLATE	28	OIL DRAIN COVER
14	ROTOR		
15	STATOR		

APPD.	Ben Yang	21-Aug-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	<b>32057R9504</b>
CHKD.	J.LIU	21-Aug-14		REV. 00	6/7
DWN.	S.CAO	21-Aug-14			



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21-Aug-14

REVISED

# SCHEMATIC DRAWING

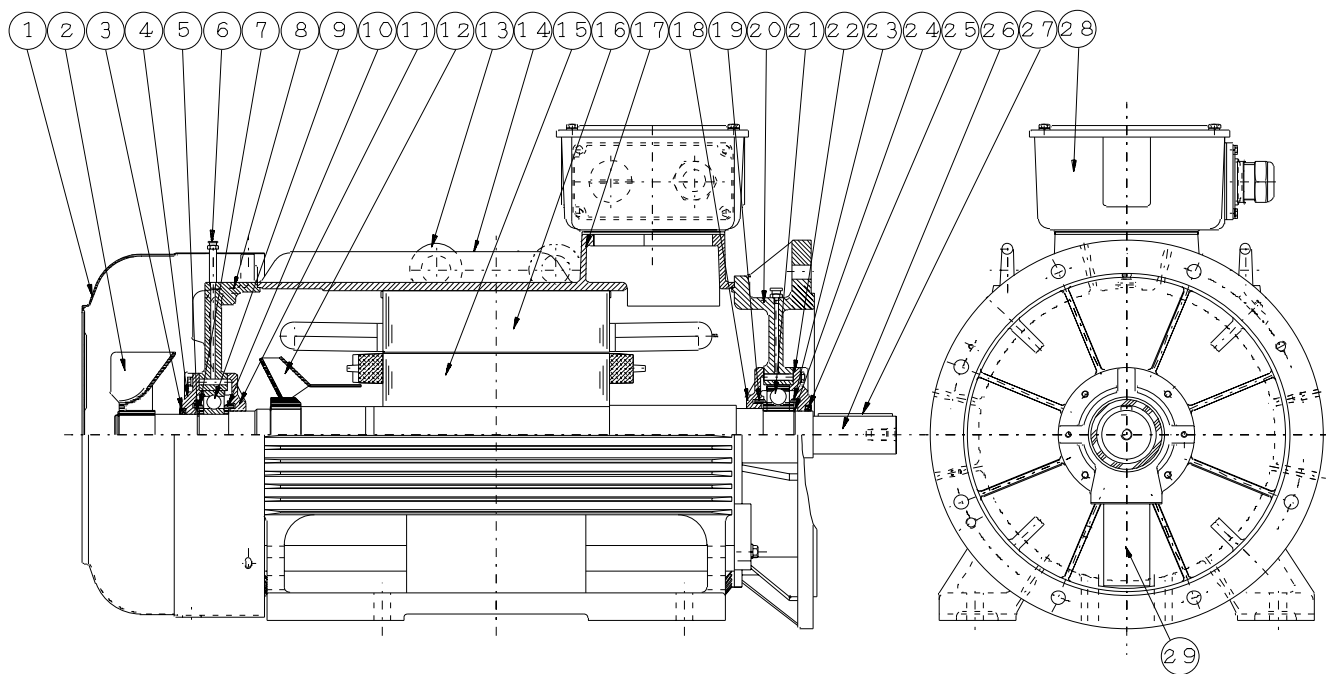
## MARINE 3-PHASE INDUCTION MOTORS

B35 (IM 2001) FRAME NOS. 355M ~ 355L

TYPE  
**AAEVB2**

PAGE  
58 of 67

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



ITEM	NAME	ITEM	NAME
1	FAN COVER	17	FRAME
2	EXTERNAL FAN	18	BEARING COVER - INNER
3	OIL SEAL	19	GREASE FLINGER
4	BEARING COVER - OUTER	20	FLANGE
5	OUTSIDE RETAINING RING	21	BEARING
6	GREASE NIPPLE	22	BEARING COVER - OUTER
7	GREASE FLINGER	23	GREASE FLINGE
8	END BRACKET	24	OUTSIDE RETAINING RING
9	BEARING	25	OIL SEAL
10	GREASE FLINGER	26	SHAFT
11	BEARING COVER - INNER	27	KEY
12	INNER FAN	28	TERMINAL BOX
13	EYE BOLT	29	OIL DRAIN COVER
14	NAME PLATE		
15	ROTOR		
16	STATOR		

APPD.	Ben Yang	21-Aug-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	32057R9504
CHKD.	J.LIU	21-Aug-14		REV. 00	7/7
DWN.	S.CAO	21-Aug-14			



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26-Jun-14

REVISED

# SCHEMATIC DRAWING

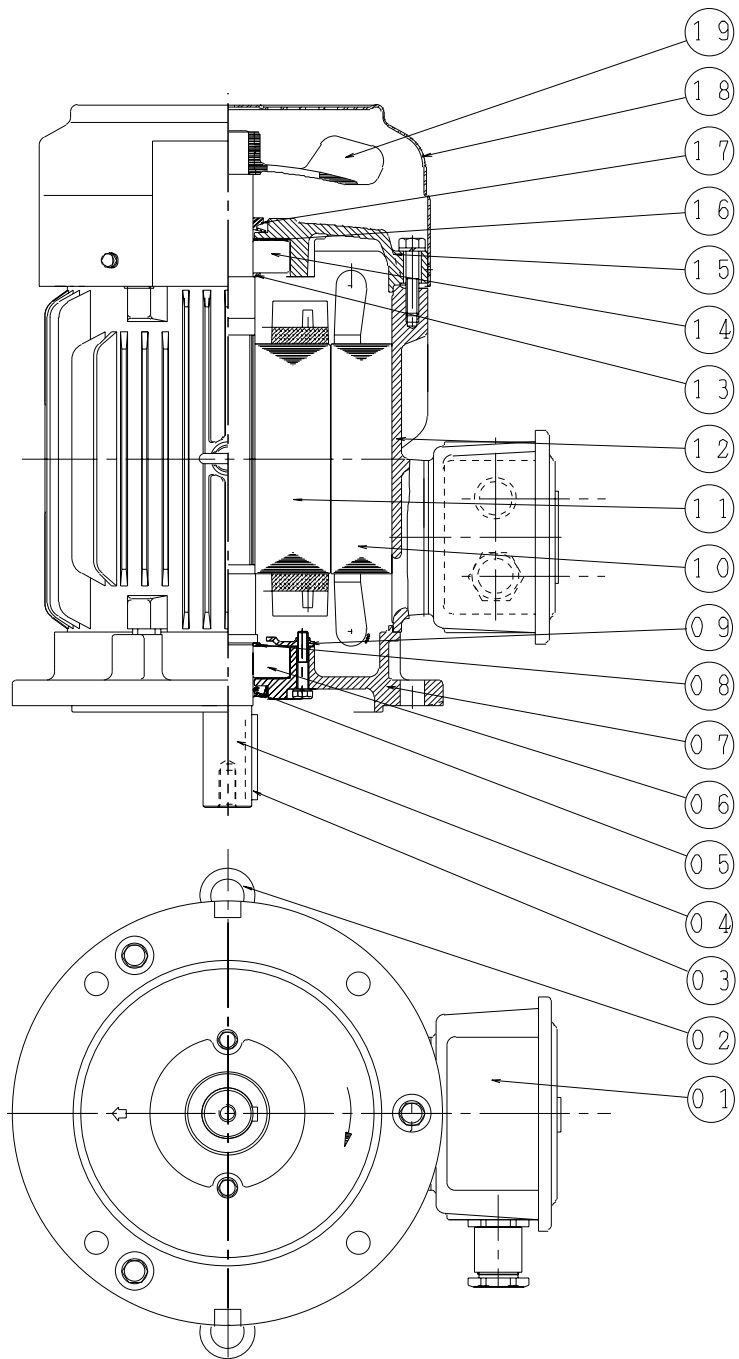
## MARINE 3-PHASE INDUCTION MOTORS

V1 (IM3011) FRAME NOS. 80M &112M

TYPE  
**AEUVB2**

PAGE  
59 of 67

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



ITEM	NAME
1	TERMINAL BOX
2	EYE BOLT
3	KEY
4	SHAFT
5	OIL SEAL
6	BEARING
7	FLANGE
8	STOP RING - BEARING
9	BEARING COVER - INNER
10	STATOR
11	ROTOR
12	FRAME
13	STOP RING - BEARING
14	BEARING
15	END BRACKET
16	PRE - LOAD SPRING
17	V RING
18	FAN COVER
19	EXTERNAL FAN

Note : 1. There is no eye bolt on frame size 80 .

APPD.	K.L.KUO	26-Jun-14
CHKD.	SHITOU	26-Jun-14
DWN.	YINYIN.SHA	26-Jun-14

**TECO Electric & Machinery Co., Ltd.**  
**Wuxi, China**

DWG NO.  
**32057R9505**

REV. 00 1/9



ISSUED  
26-Jun-14

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# SCHEMATIC DRAWING

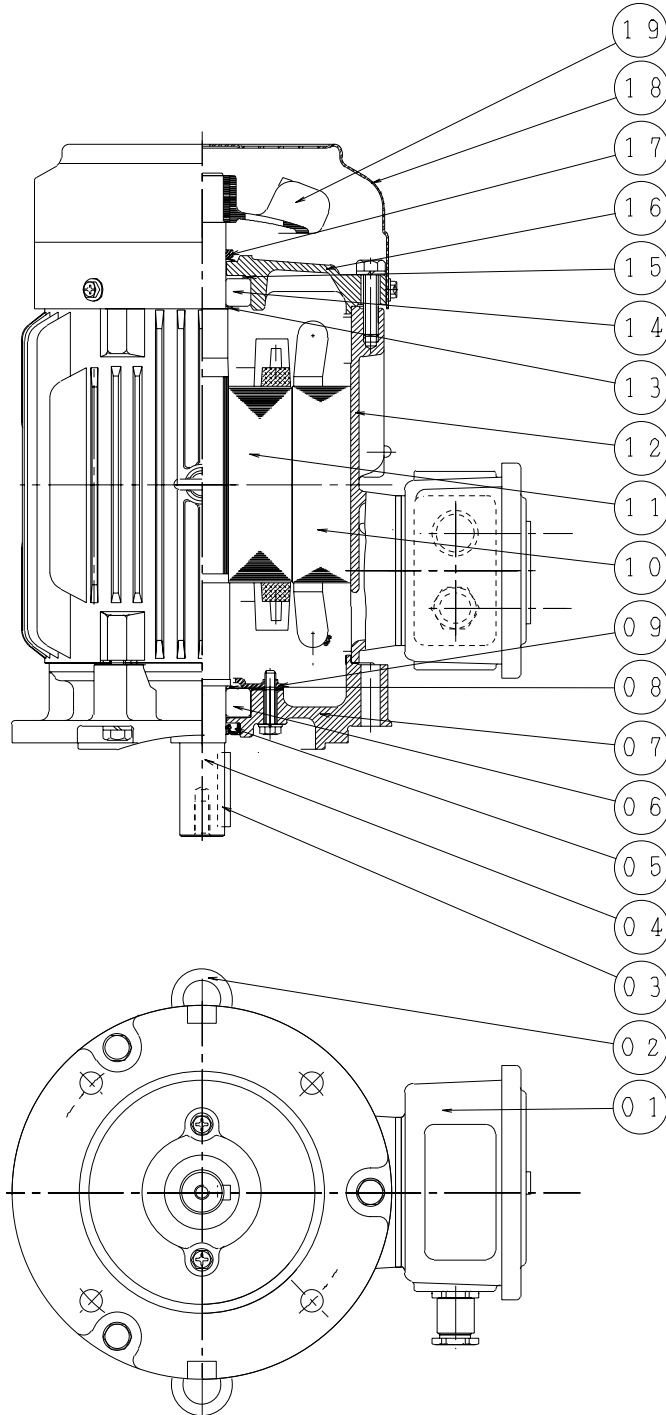
## MARINE 3-PHASE INDUCTION MOTORS

V1 (IM 3011) FRAME NOS. 90S ~ 90L

TYPE  
**AEUVB2**

PAGE  
60 of 67

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



ITEM	NAME
1	TERMINAL BOX
2	EYE BOLT
3	KEY
4	SHAFT
5	OIL SEAL
6	BEARING
7	FLANGE
8	STOP RING - BEARING
9	BEARING COVER - INNER
10	STATOR
11	ROTOR
12	FRAME
13	STOP RING - BEARING
14	BEARING
15	PRE - LOAD SPRING
16	END BRACKET
17	V RING
18	FAN COVER
19	EXTERNAL FAN

APPD.	K.L.KUO	26-Jun-14
CHKD.	SHITOU	26-Jun-14
DWN.	YINYIN.SHA	26-Jun-14

**TECO Electric & Machinery Co., Ltd.**

**Wuxi, China**

DWG NO.  
**32057R9505**

REV. 00 2/9



ISSUED	26-Jun-14
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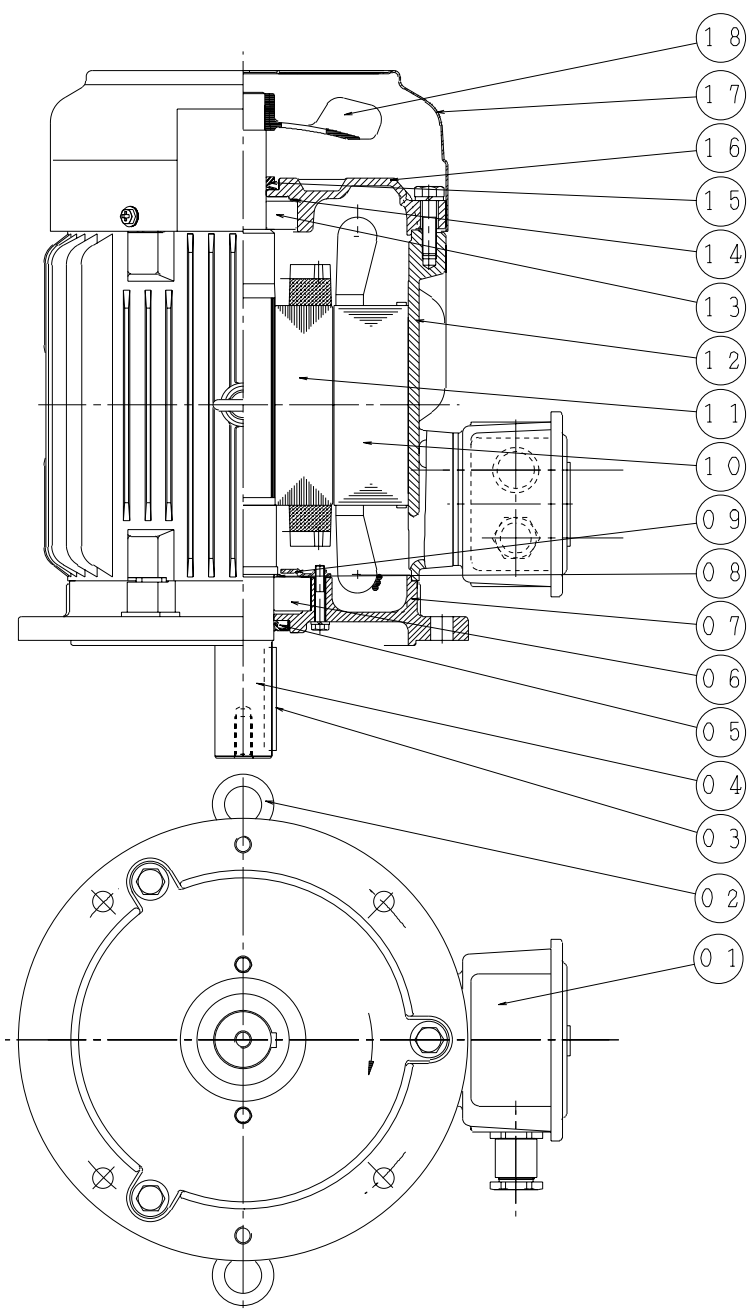
# SCHEMATIC DRAWING

## MARINE 3-PHASE INDUCTION MOTORS

V1 (IM3011) FRAME NOS. 100L & 132S ~ 132M

TYPE	<b>AEUVB2</b>	
PAGE	61	of 67

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



ITEM	NAME
1	TERMINAL BOX
2	EYE BOLT
3	KEY
4	SHAFT
5	OIL SEAL
6	BEARING
7	FLANGE
8	STOP RING - BEARING
9	BEARING COVER - INNER
10	STATOR
11	ROTOR
12	FRAME
13	BEARING
14	PRE - LOAD SPRING
15	V RING
16	END BRACKET
17	FAN COVER
18	EXTERNAL FAN

APPD.	K.L.KUO	26-Jun-14
CHKD.	SHITOU	26-Jun-14
DWN.	YINYIN.SHA	26-Jun-14

**TECO Electric & Machinery Co., Ltd.**  
**Wuxi, China**

DWG NO.	<b>32057R9505</b>
REV. 00	3/9



ISSUED	26-Jun-14
REVISED	

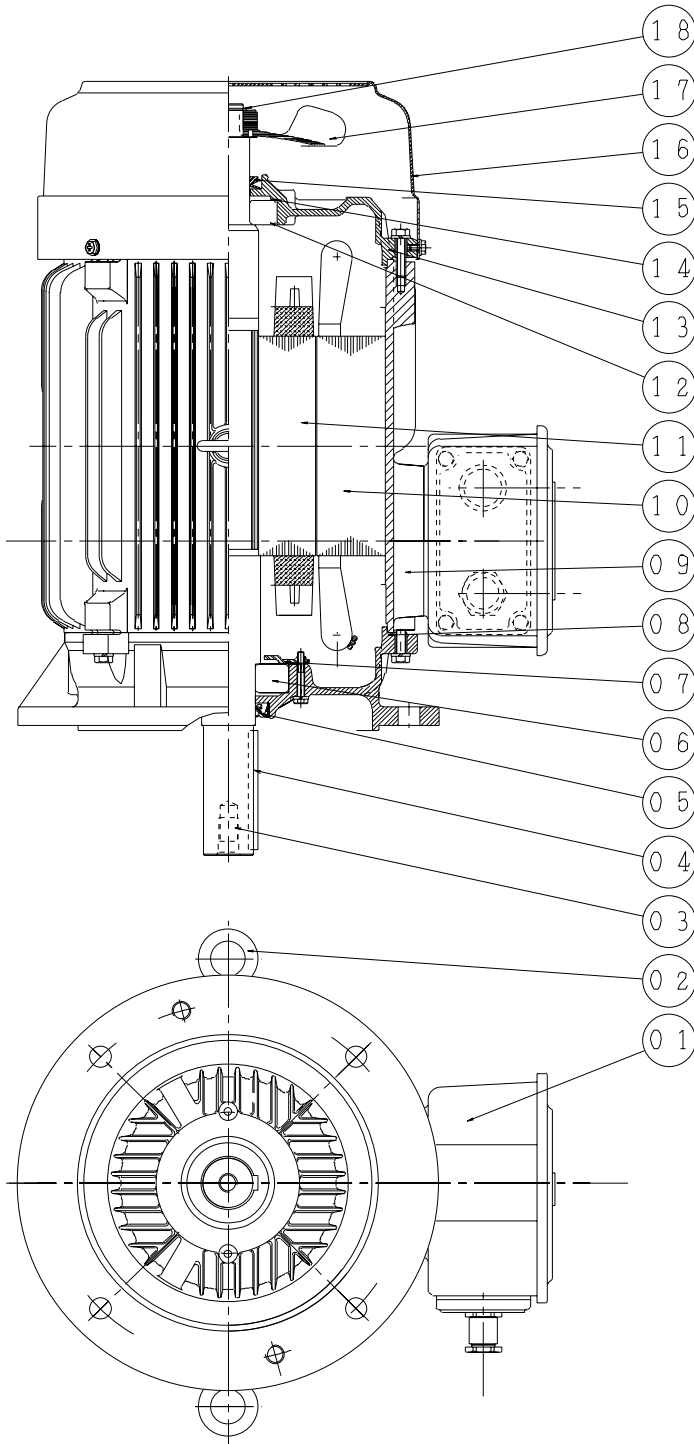
# SCHEMATIC DRAWING

## MARINE 3-PHASE INDUCTION MOTORS

V1 (IM3011) FRAME NOS. 160M ~ 160L

TYPE	<b>AEUVB2</b>	
PAGE	62	of 67

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



ITEM	NAME
1	TERMINAL BOX
2	EYE BOLT
3	SHAFT
4	KEY
5	OIL SEAL
6	BEARING
7	BEARING COVER - INNER
8	FLANGE
9	FRAME
10	STATOR
11	ROTOR
12	BEARING
13	END BRACKET
14	PRE - LOAD SPRING
15	V RING
16	FAN COVER
17	EXTERNAL FAN
18	OUTSIDE RETAINING RING

APPD.	K.L.KUO	26-Jun-14
CHKD.	SHITOU	26-Jun-14
DWN.	YINYIN.SHA	26-Jun-14

**TECO Electric & Machinery Co., Ltd.**  
**Wuxi, China**

DWG NO.	<b>32057R9505</b>
REV. 00	4/9



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26-Jun-14

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# SCHEMATIC DRAWING

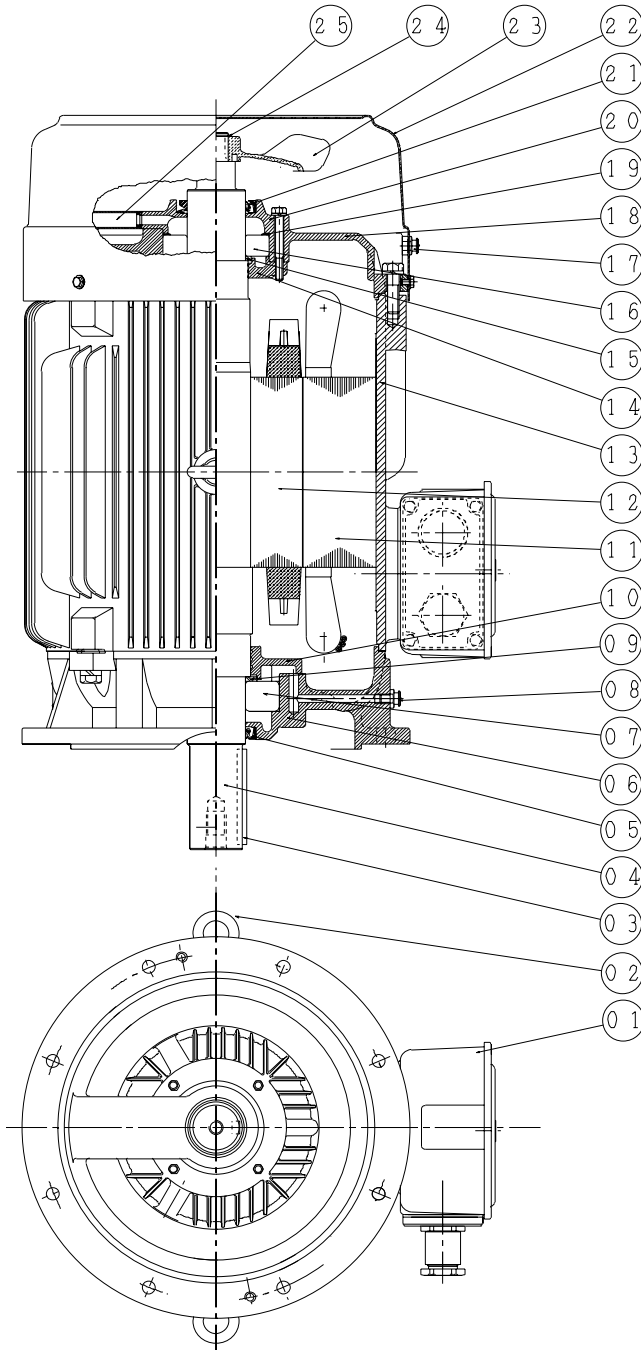
## MARINE 3-PHASE INDUCTION MOTORS

V1 (IM3011) FRAME NOS. 180M ~ 250M

TYPE  
**AEUVB2**

PAGE  
63 of 67

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



ITEM	NAME
1	TERMINAL BOX
2	EYE BOLT
3	KEY
4	SHAFT
5	OIL SEAL
6	FLANGE
7	BEARING
8	GREASE NIPPLE
9	STOP RING - BEARING
10	BEARING COVER - INNER
11	STATOR
12	ROTOR
13	FRAME
14	BEARING COVER - INNER
15	STOP RING - BEARING
16	BEARING
17	GREASE NIPPLE
18	END BRACKET
19	PRE - LOAD SPRING
20	BEARING COVER - OUTER
21	V RING OR OIL SEAL <sup>(3)</sup>
22	FAN COVER
23	EXTERNAL FAN
24	OUTSIDE RETAINING RING
25	OIL DRAIN COVER

Note :

- 1: There is four holes on flange of frame 180M ~ 200L.
- 2: There is eight holes on flange of frame 225S ~ 250M.
3. Item 21, F#225 ~ F#250 Oil Seal on Both End Shield .

APPD.	K.L.KUO	26-Jun-14
CHKD.	SHITOU	26-Jun-14
DWN.	YINYIN.SHA	26-Jun-14

**TECO Electric & Machinery Co., Ltd.**

**Wuxi, China**

DWG NO.  
**32057R9505**

REV. 00 5/9





ISSUED  
21-Aug-14

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# SCHEMATIC DRAWING

## MARINE 3-PHASE INDUCTION MOTORS

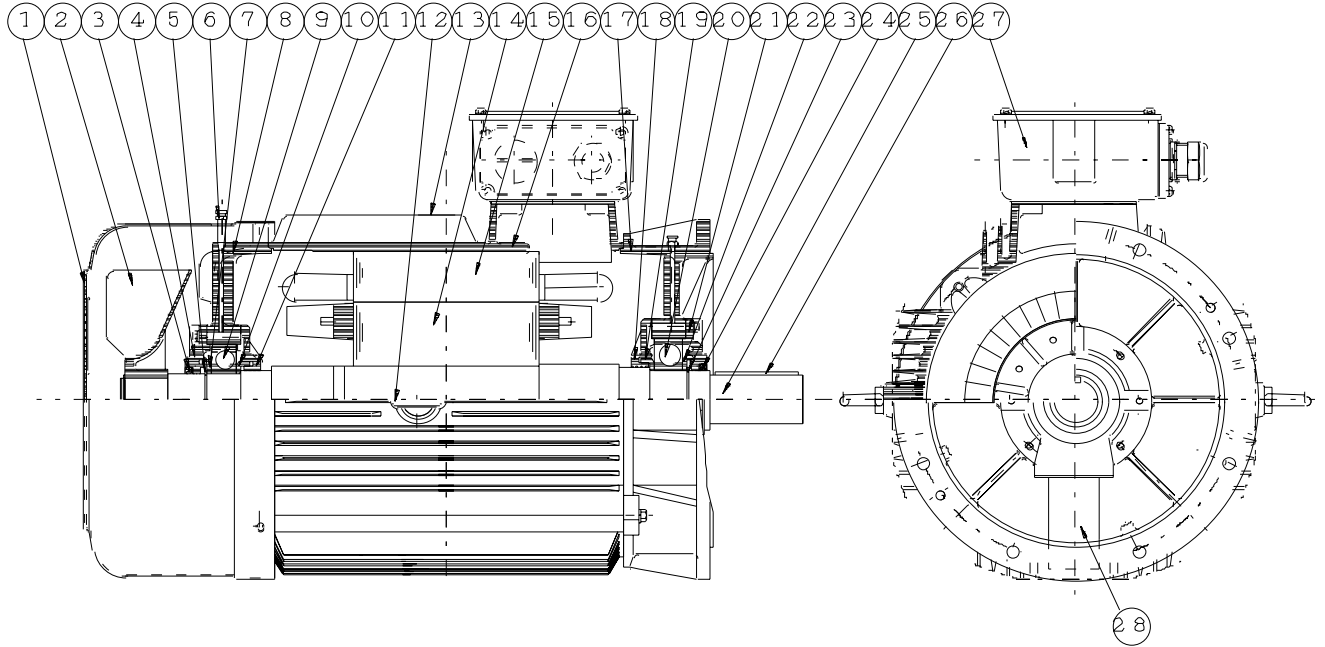
V1 (IM3011) FRAME NOS. 280S ~ 280M

TYPE  
**AEUVB2**

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PAGE  
64 of 67

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



ITEM	NAME	ITEM	NAME
1	FAN COVER	16	FRAME
2	EXTERNAL FAN	17	FLANGE
3	OIL SEAL	18	BEARING COVER - INNER
4	BEARING COVER - OUTER	19	GREASE FLINGER
5	OUTSIDE RETAINING RING	20	BEARING
6	GREASE NIPPLE	21	BEARING COVER - OUTER
7	GREASE FLINGER	22	GREASE FLINGER
8	END BRACKET	23	OUTSIDE RETAINING RING
9	BEARING	24	OIL SEAL
10	GREASE FLINGER	25	SHAFT
11	BEARING COVER - INNER	26	KEY
12	EYE BOLT	27	TERMINAL BOX
13	NAME PLATE	28	OIL DRAIN COVER
14	ROTOR		
15	STATOR		

APPD.	Ben Yang	21-Aug-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	32057R9505
CHKD.	J.LIU	21-Aug-14		REV. 00	6/9
DWN.	S.CAO	21-Aug-14			

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2015.03.17  
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21-Aug-14  
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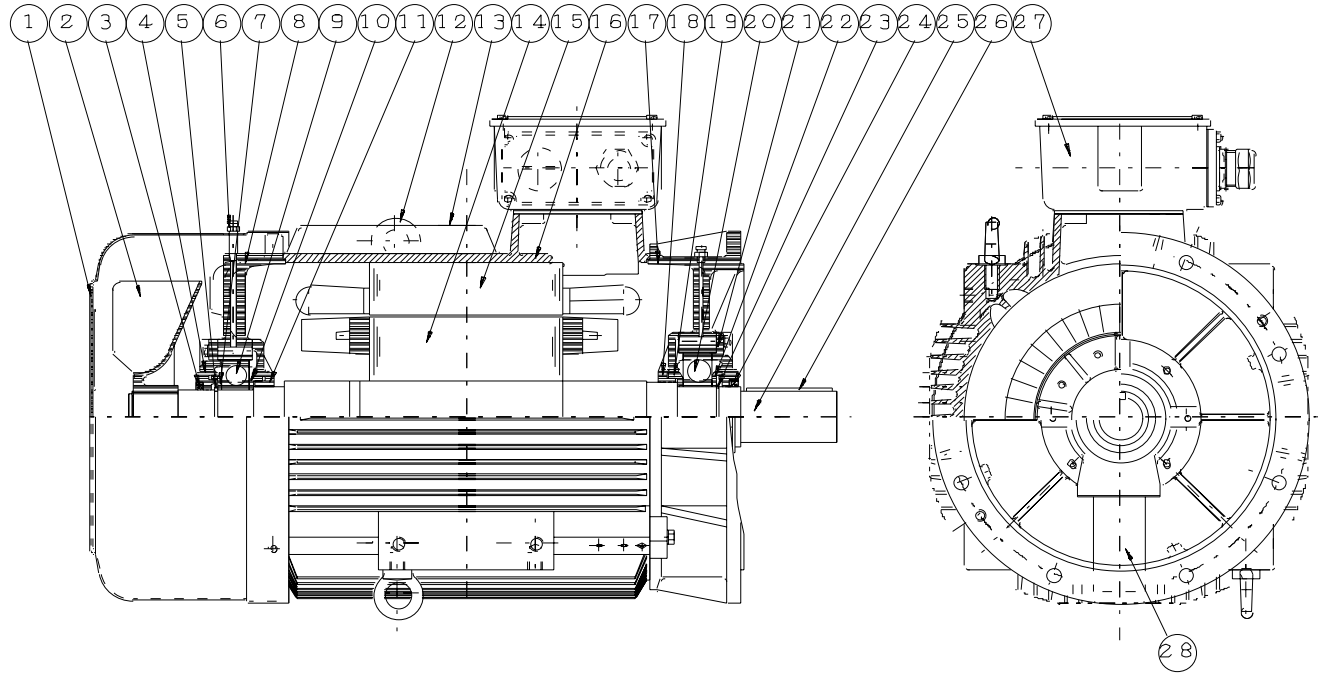
# SCHEMATIC DRAWING

## MARINE 3-PHASE INDUCTION MOTORS

V1 (IM3011) FRAME NOS. 315S ~ 315L

TYPE  
**AEUVB2**  
PAGE  
65 of 67

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



ITEM	NAME	ITEM	NAME
1	FAN COVER	16	FRAME
2	EXTERNAL FAN	17	FLANGE
3	OIL SEAL	18	BEARING COVER - INNER
4	BEARING COVER - OUTER	19	GREASE FLINGER
5	OUTSIDE RETAINING RING	20	BEARING
6	GREASE NIPPLE	21	BEARING COVER - OUTER
7	GREASE FLINGER	22	GREASE FLINGER
8	END BRACKET	23	OUTSIDE RETAINING RING
9	BEARING	24	OIL SEAL
10	GREASE FLINGER	25	SHAFT
11	BEARING COVER - INNER	26	KEY
12	EYE BOLT	27	TERMINAL BOX
13	NAME PLATE	28	OIL DRAIN COVER
14	ROTOR		
15	STATOR		

APPD.	Ben Yang	21-Aug-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	<b>32057R9505</b>
CHKD.	J.LIU	21-Aug-14		REV. 00	
DWN.	S.CAO	21-Aug-14		7/9	



ISSUED  
21-Sep-14

REVISED

# SCHEMATIC DRAWING

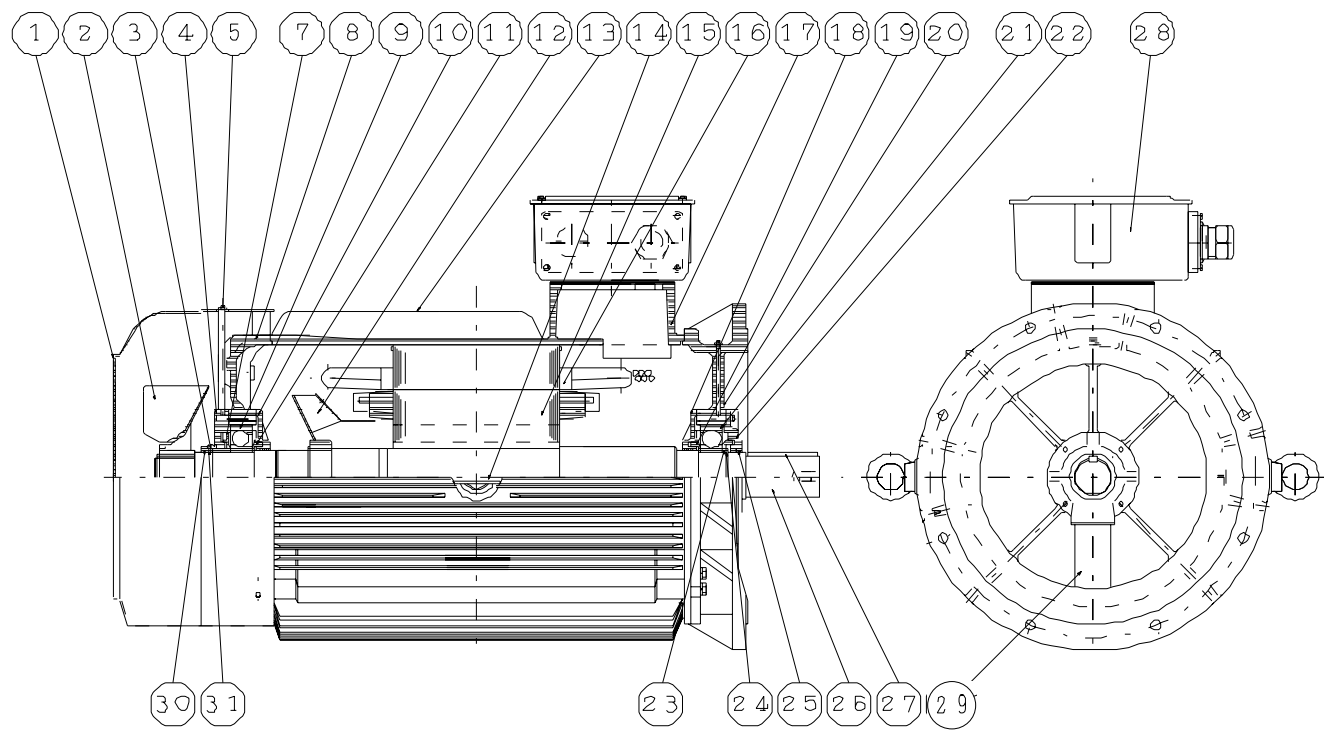
## MARINE 3-PHASE INDUCTION MOTORS

V1 (IM3011) FRAME NOS. 355M ~ 355L

TYPE  
**AEUVB2**

PAGE  
66 of 67

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



ITEM	NAME	ITEM	NAME
1	FAN COVER	17	FRAME
2	EXTERNAL FAN	18	BEARING COVER - INNER
3	OIL SEAL	19	GREASE FLINGER
4	BEARING COVER - OUTER	20	FLANGE
5	GREASE NIPPLE	21	BEARING
7	GREASE FLINGER	22	BEARING COVER - OUTER
8	END BRACKET	23	GREASE FLINGER
9	BEARING	24	OUTSIDE RETAINING RING
10	BEARING COVER - INNER	25	OIL SEAL
11	GREASE FLINGER	26	SHAFT
12	INNER FAN	27	KEY
13	NAME PLATE	28	TERMINAL BOX
14	EYE BOLT	29	OIL DRAIN COVER
15	ROTOR	30	LK NUT
16	STATOR	31	LK WASHER

APPD.	Ben Yang	21-Aug-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b> <b>Wuxi, China</b>	DWG NO.	32057R9505
CHKD.	J.LIU	21-Aug-14		REV. 00	8/9
DWN.	S.CAO	21-Aug-14			

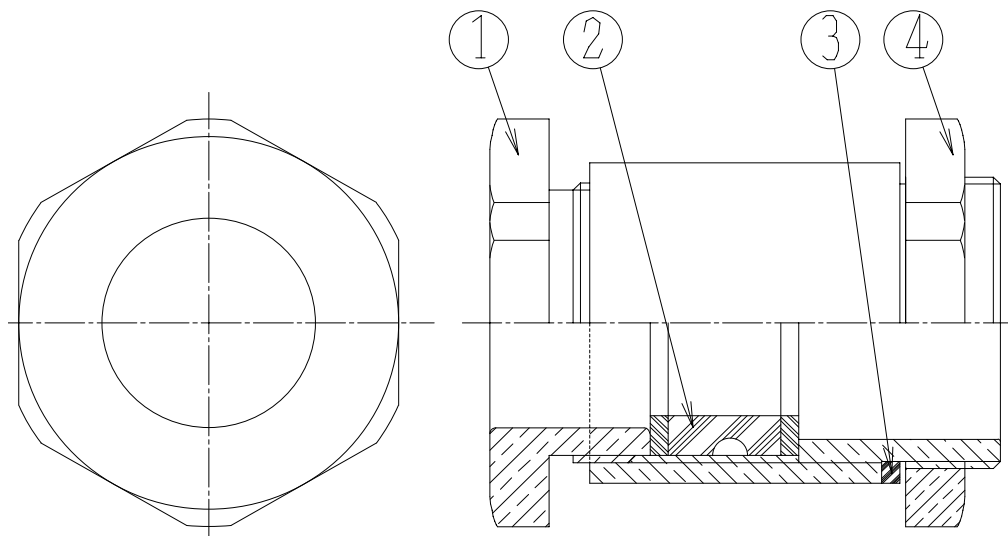
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2015.03.17  
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ISSUED  
29-Oct-14  
REVISED

# SCHEMATIC DRAWING

## MARINE 3-PHASE INDUCTION MOTORS CABLE GLAND

TYPE  
**AAEVB2/AEUVB2**  
PAGE  
67 of 67



ITEM	NAME	MATERIAL
1	NUT	NICKEL CLAD BRASS
2	RUBBER GASKET	NBR
3	RUBBER RING	NBR
4	NUT WRENCH	NICKEL CLAD BRASS

APPD.	Chiwen CHE	29-Oct-14
CHKD.	Chiwen CHEN	29-Oct-14
DWN.	YINYIN.SHA	29-Oct-14

**TECO Electric & Machinery Co., Ltd.**  
**Wuxi, China**

DWG NO.  
**32057R9505**  
REV. 00 9/9