

ISSUED  
2-Dec-13  
REVISED

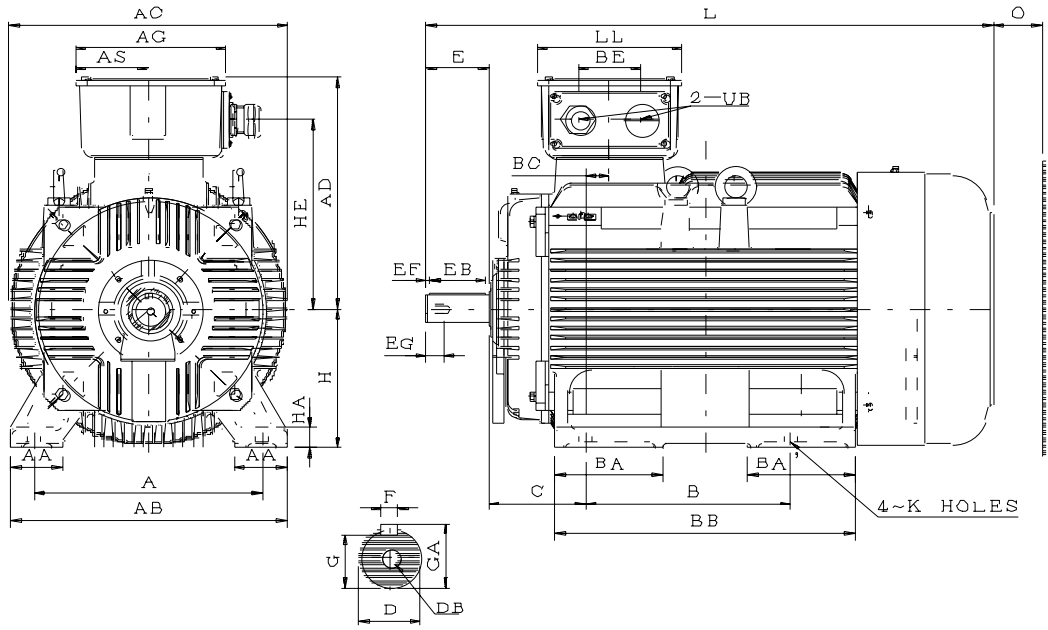
# OUTLINE DIMENSIONS SHEET

## IE3 EFFICIENCY 3-PHASE INDUCTION MOTORS

### B3 (IM 1001) FRAME NOS. 315MB

MODEL  
**AESV3W**  
PAGE

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	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
315MB	28	1296	322	180	M63X1.5	80	170	160	5	40	22	71	85	M20	6320C3	6316C3

- Note :**
1. Tolerance of Shaft End Diameter D : m6
  2. Tolerance of Shaft Center Height H : +0, -1
  3. Tolerance of Key Width F : h9
  4. Output In the Brackets for 60Hz
  5. " \* " : Output for 50Hz

APPD.	Ben Yang	2-Dec-13
CHKD.	J.LIU	2-Dec-13
DWN.	S.CAO	2-Dec-13

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

DWG NO.  
**3W049U944**  
Rev. 00 2/5



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# PERFORMANCE DATA

TEFC, CLASS F, 40 AMBIENT TEMP.  
IEC DESIGN N CONTINUOUS DUTY  
SF1.15 60HZ 460V

MODEL  
**AESV3W / AESU3W**  
PAGE

OUTPUT		FULL LOAD rpm	FRAME NO.	EFFICIENCY				POWER FACTOR				CURRENT		TORQUE				ROTOR GD <sup>2</sup> kg-m <sup>2</sup>
Hp	kW			FULL LOAD (%)	3/4 LOAD (%)	2/4 LOAD (%)	1/4 LOAD (%)	FULL LOAD (%)	3/4 LOAD (%)	2/4 LOAD (%)	1/4 LOAD (%)	FULL LOAD (A)	LOCKED ROTOR (A)	FULL LOAD N·m	LOCKED ROTOR %FLT	PULL UP %FLT	BREAK DOWN %FLT	
40	30	3545	200L	92.4	92.4	91.6	86.3	91.0	90.5	88.0	75.5	42.8	350	80.82	210	150	270	0.602
		1775	200L	94.1	94.4	94.4	91.1	89.5	87.5	82.0	63.0	42.8	359	161.4	200	190	265	1.451
		1180	225M	94.1	94.4	94.1	91.4	86.5	85.0	78.0	59.0	44.2	297	242.8	205	160	210	3.023
50	37	3550	200L	93.0	93.1	92.6	88.1	91.0	91.5	91.0	80.0	52.5	447	99.54	200	155	275	0.753
		1775	225S	94.5	94.5	93.8	89.9	86.5	83.5	76.0	54.5	54.3	447	199.1	200	180	250	1.896
		1185	250M	94.1	94.1	93.7	90.5	88.0	86.0	79.5	59.5	53.6	437	298.2	230	155	250	4.194
60	45	3570	225M	93.6	93.4	92.3	87.2	93.5	93.0	90.5	78.5	61.7	494	120.4	170	140	300	1.187
		1775	225M	95.0	94.9	94.3	91.0	86.5	83.5	76.5	54.5	65.7	490	242.1	215	195	235	1.979
		1185	280S	94.5	94.5	93.5	90.0	85.5	81.5	72.0	50.0	69.5	519	360.7	190	160	280	6.400
75	55	3565	250M	93.6	93.8	93.3	90.4	93.0	92.0	89.0	76.5	75.9	693	147.3	200	160	295	1.544
		1785	250M	95.4	95.2	94.3	90.5	88.0	85.5	78.0	58.0	78.7	668	294.3	230	205	275	3.911
		1185	280M	94.5	94.5	94.0	91.0	84.5	80.5	71.0	50.0	87.9	680	450.9	220	190	280	7.600
100	75	3570	280S	94.1	94.4	93.2	89.2	89.5	86.5	79.0	58.0	111	955	199.6	200	170	280	2.000
		1785	280S	95.4	95.0	94.0	91.0	87.5	85.5	78.0	56.0	112	885	399.1	180	150	280	5.200
		1188	315S	95.0	95.0	94.5	92.0	84.0	80.0	70.0	47.0	117	860	599.7	180	150	270	11.20
125	90	3570	280M	95.0	94.7	94.0	90.0	89.5	86.5	80.0	57.0	138	1195	249.5	200	170	280	2.400
		1785	280M	95.4	95.4	95.0	93.0	88.5	87.5	80.5	60.0	139	1100	498.9	200	170	280	6.400
		1188	315M	95.0	95.0	94.3	91.5	84.5	81.5	72.0	50.0	146	1030	749.6	160	135	270	13.60
150	110	3572	315S	95.0	94.4	92.5	87.5	91.0	89.5	84.0	65.0	162	1350	299.2	145	120	280	4.000
		1785	315S	95.8	95.4	94.5	91.0	88.0	86.0	80.0	59.0	167	1500	598.7	200	170	280	8.800
		1188	315M	95.8	95.8	95.4	93.0	84.5	81.5	72.0	49.0	173	1290	899.5	180	150	250	16.40
200	150	3575	315M	95.4	95.0	94.0	90.0	92.0	91.0	88.0	75.0	213	1735	398.6	150	125	280	5.800
		1785	315M	96.2	95.8	95.2	93.0	88.5	86.5	81.0	60.0	220	2000	798.2	200	170	280	10.40
		1188	315L	95.8	95.6	95.2	93.2	86.5	84.5	77.0	56.0	226	1650	1199	200	170	250	22.00
250	185	3575	315L	95.8	95.4	94.5	91.5	92.5	91.5	89.5	78.5	264	2180	498.2	160	135	280	6.200
		1785	315L	96.2	95.9	95.3	93.5	89.0	87.5	81.5	61.5	273	2400	998	200	170	280	12.40
		1190	315D	95.8	95.6	95.2	93.5	86.5	84.5	78.0	58.0	282	2150	1497	200	170	250	34.80
300	224	3575	315L	95.8	95.4	94.5	91.5	92.5	91.5	89.5	78.5	317	2580	597.8	160	135	280	7.40
		1785	315L	96.2	96.0	95.4	93.6	89.5	88.0	83.5	64.0	326	2760	1197	200	170	280	13.60
		1190	315D	95.8	95.6	95.2	94.0	87.0	84.5	77.5	58.5	337	2580	1796	200	170	250	40.40
350	261	3575	315D	95.8	95.4	94.3	90.5	92.0	91.0	87.0	72.0	372	2800	697.5	140	120	280	12.40
		1785	315D	96.2	96.0	95.4	93.0	90.0	88.5	83.5	64.0	379	2800	1397	150	125	280	27.20
		1190	315D	95.8	95.6	95.2	94.0	87.0	85.5	79.0	60.0	393	2850	2095	200	170	250	44.80
400	298	3575	315D	95.8	95.4	94.3	90.5	92.0	91.0	88.0	72.0	425	3350	797.1	155	130	280	14.40
		1785	315D	96.2	96.0	95.4	93.0	90.5	89.0	84.0	65.0	430	3320	1596	160	135	280	31.20
450	335	3575	315D	95.8	95.4	94.5	91.0	92.5	91.5	88.5	72.5	475	3750	896.8	160	135	280	16.00
		1785	315D	96.2	96.0	95.0	93.0	90.5	89.0	84.0	65.0	484	3800	1796	160	135	280	34.00

NOTE : 1. The above are typical values based on test accord to ANSI/IEEE standard 112 method B.  
 2. Tolerance according to NEMA MG1-12& IEC 60034-1.  
 3. Breakdown & Locked rotor torques are show as average expected voltages.  
 4. Efficiency, power factor, speed and torque are the same for other voltages.  
 Current values vary inversely with voltage.  
 5. 0.55 kW and below : Efficiency per TECO performance standard.  
 6. (\*)6p 1.1、1.5KW Frame size assignment per TECO performance standard.  
 7. F#315D : only suitable for IM B3 and IM B35.  
 8. Data subject to change without notice.

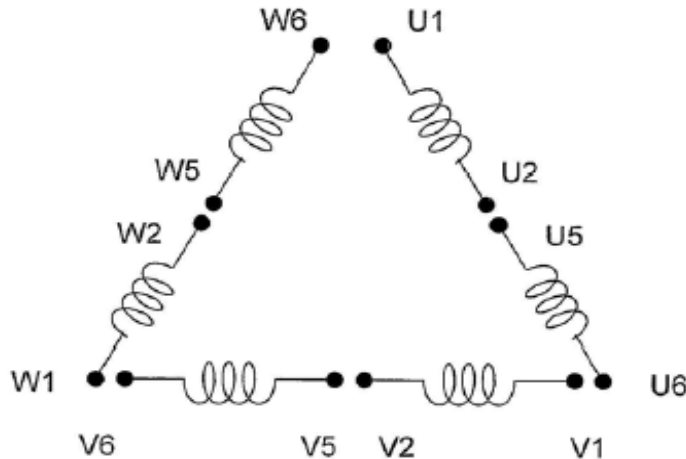
APPD.	F.Yang	13-Feb-14	<b>TECO Electric &amp; Machinery Co., Ltd.</b>	DWG NO.
CHKD.	F.Yang	13-Feb-14		<b>32057R9315</b>
DWN.	Z.S.H Shao Fu	2-Dec-13		Rev. 00 <span style="float: right;">2/2</span>

**Wuxi, China**

DATE:  
June 22, 2015

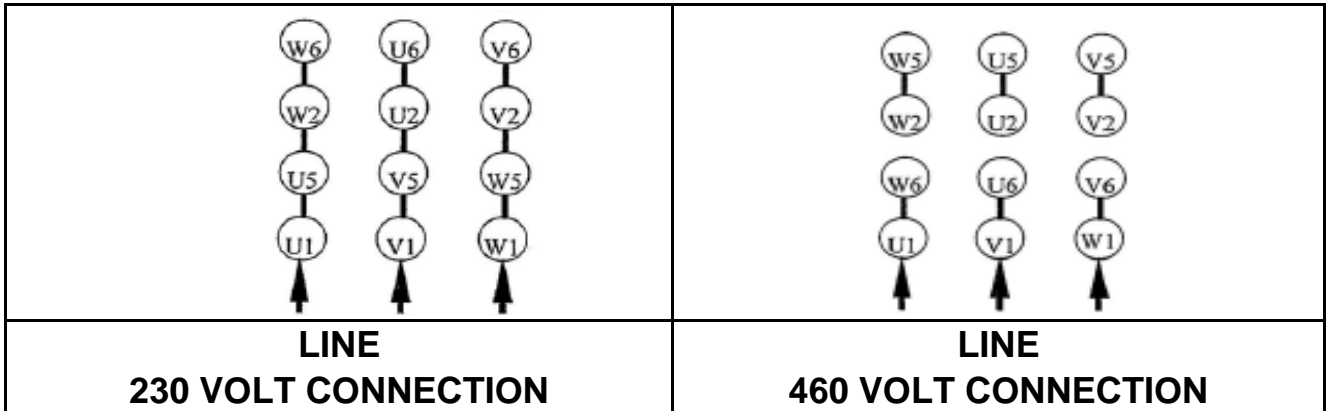
# CONNECTION DIAGRAM

CATALOG NO.:

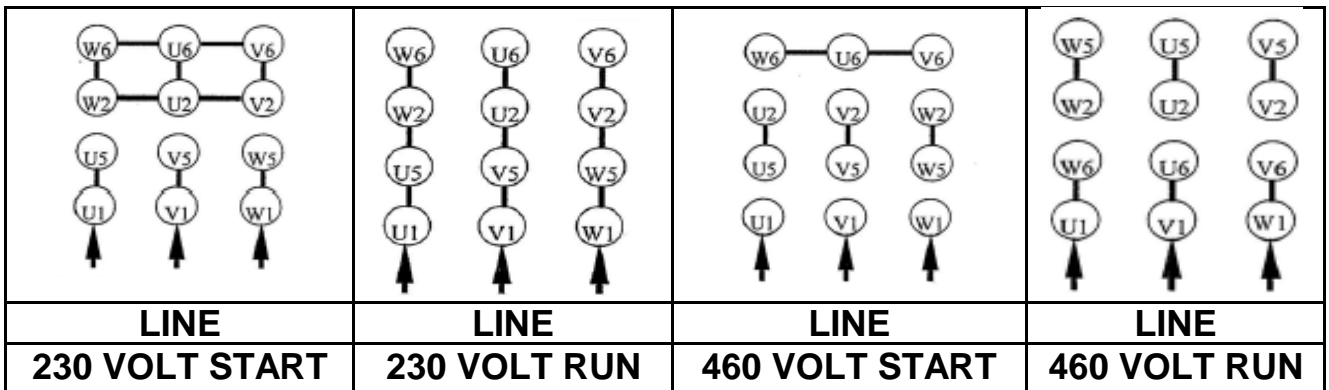


**SCHEMATIC - Δ / Y CONNECTION**

## ACROSS THE LINE CONNECTION



## WYE START-DELTA RUN CONNECTION



DWG NO.

**DAC-1626-1**