

MODEL NUMBER	IEEE7.5-36-213TC		
HORSEPOWER	7.5		
RPM / POLES	3600 / 2		
VOLTAGE / PHASE	460 / 3		
FRAME	213TC		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP55		
FREQUENCY	60 HZ		
FULL LOAD SPEED	3520 RPM		
SERVICE FACTOR	1.15		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS	9.0 A		
LOCKED ROTOR CURRENT (% Full Load)	700 %		
NEMA CODE LETTER	H		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	89.5 %	86.0 %
	75 %	89.7 %	83.5 %
	50 %	87.0 %	78.0 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	11.0 lb.ft.	160 %	260 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	29.663 lb.ft. <sup>2</sup>	0.332 lb.ft. <sup>2</sup>	
SOUND PRESSURE LEVEL ( No Load 1 M From Motor)	76 dB(A)		
MAX. SHAFT VIBRATION	0.08 In/Sec – Peak Velocity		
NUMBER OF STARTS (Hot / Cold)	2 Hot / 3 Cold		
MAX. AMBIENT TEMPERATURE	40° C		
MAX. ELEVATION	3300 Ft. Above Sea Level		
TEMPERATURE RISE (At Full Load)	80° C		
DRIVE-END BEARING	6307ZC3		
OPPOSITE DRIVE-END BEARING	6307ZC3		
BEARING SEAL TYPE	ProTech™ IP66 Labyrinth On DE and ODE		
GREASE TYPE	Mobil Polyrex EM		
MOUNTING	F1 (F2 Suitable), W6, W8, B3, V5, V6		
ROTATION	Bi-Directional		
APPROXIMATE WEIGHT	150 lbs		
AREA CLASSIFICATION	Class I, Division 2, Groups A, B, C, D, T3A		
PAINT	Epoxy		
INVERTER RATING	10:1 CT / 1000:1 VT		
INSULATION TYPE	Hyundai Inverter Shield, Meets NEMA MG1 Part 31		
SPECIFICATION - In Accordance With	IEEE-841, Version 2009, NEMA, CSA		



CC 038A





1 E E E 8 4 1 TEFC

**THREE PHASE INDUCTION MOTOR**

**TYPE**

LP,JP

CAST IRON FRAME

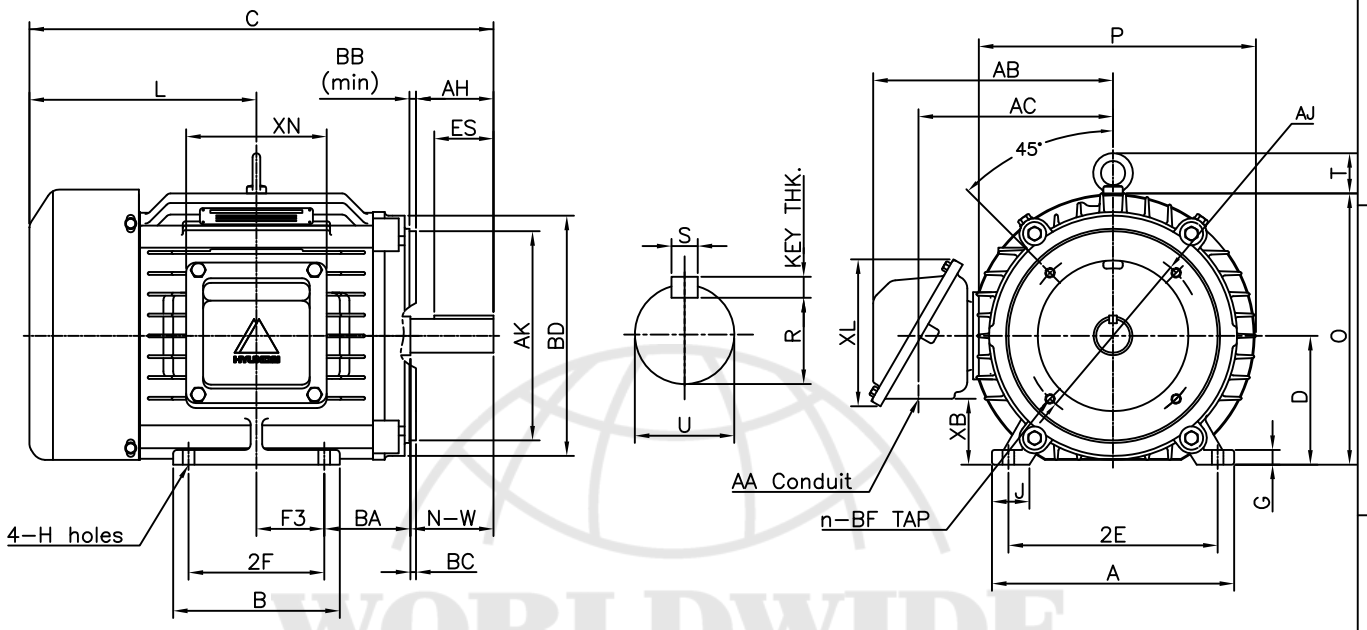
FRAME SIZE

OUTPUT(HP)

POLES

Hz

TIME RATING



**DIMENSIONS**

FLANGE							MOUNTING									
AJ	AK	BD	BB	BC	BF	n	A	B	2E	2F	-	F3	G	J	H	
7.25	8.50	9.00	0.25	+0.25	1/2-13	4	9.85	6.77	8.50	5.50	-	2.75	0.60	1.52	0.41	

CONDUIT BOX						OVERALL							APPROX. WGT.(LB)
AA	AB	AC	XB	XL	XN	BA	C	D	L	O	P	T	
1.00	9.82	7.90	2.67	5.97	5.71	3.50	18.86	5.25	9.22	11.02	11.26	1.63	150

SHAFT						KEY THK.	BEARING	
U	N-W	A-H	KEYWAY				DRIVE END	OPP. DRIVE END
			R	ES	S			
1.375	3.38	3.12	1.201	2.41	0.312	0.312	6307ZZC3	6307ZZC3

**NOTE**

- 1.Dimension "D" tolerance : +0.00inch - 0.03inch
- 2.Dimension "U" tolerance : +0.000inch - 0.0005inch
- 3.Dimension "R" tolerance : +0.000inch - 0.015inch

APPD BY	J.H.KIM	UNIT	INCH	SUBJECT	NEMA 213TC(KIT)	CAD PROJ \ FILE
CHKD BY	N.D.LEE	SCALE	1/8			SCALE-NEMA\A1305AA
CHKD BY	K.S.LEE	PROJEC'N	3rd Angle	TITLE		
DSND BY	S.W.SEO	DATE	2010.12.20			

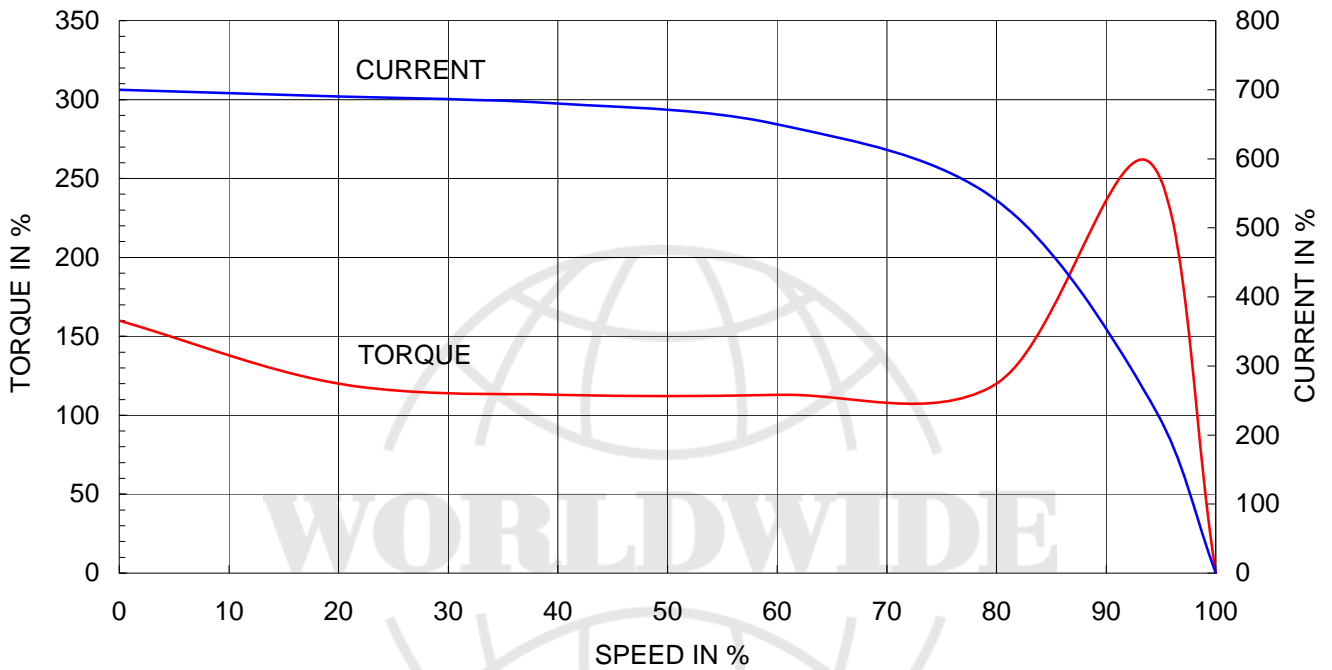
**OUTLINE**

	REF. NO	350A8305AA	Sheet No. of
	DWG NO	350A8305AA	Revision No. 0

Type :	PKP
Full Load Torque :	11.0 lb.ft
Motor moment of Inertia (J) :	0.332 lb.ft <sup>2</sup>
Load moment of Inertia (J) :	29.663 lb.ft <sup>2</sup>

5.5 kW	7.5 HP	60 Hz
2 P	Rated Speed : 3520 RPM	
Rated Voltage	460V	
Full Load Current	9.0A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

