

MODEL NUMBER	IEEE1.5-36-143TC		
HORSEPOWER	1.5		
RPM / POLES	3600 / 2		
VOLTAGE / PHASE	460 / 3		
FRAME	143TC		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP55		
FREQUENCY	60 HZ		
FULL LOAD SPEED	3500 RPM		
SERVICE FACTOR	1.15		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS	2.0 A		
LOCKED ROTOR CURRENT (% Full Load)	1000 %		
NEMA CODE LETTER	M		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	84.0 %	84.0 %
	75 %	84.2 %	70.0 %
	50 %	81.5 %	54.0 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	2.2 lb.ft.	185 %	260 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	3.790 lb.ft. ²	0.033 lb.ft. ²	
SOUND PRESSURE LEVEL (No Load 1 M From Motor)	73 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	6205ZC3		
OPPOSITE DRIVE-END BEARING	6204ZC3		
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	53 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





I E E E 8 4 1 TEFC

THREE PHASE INDUCTION MOTOR

TYPE

LP,JP

CAST IRON FRAME

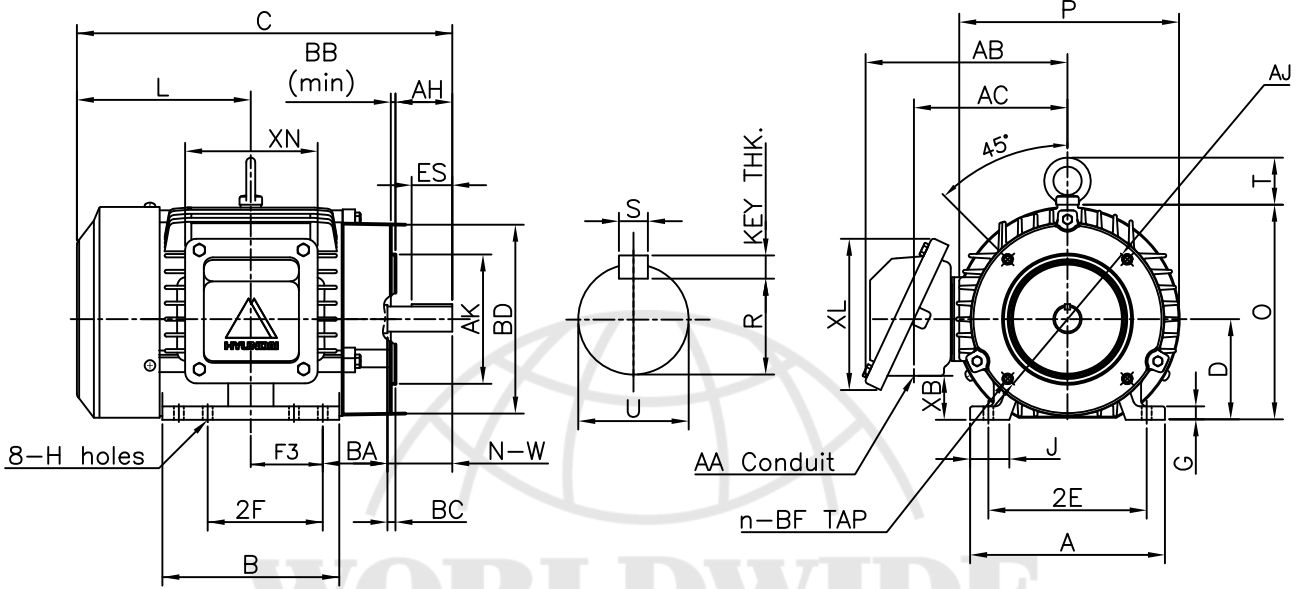
FRAME SIZE

OUTPUT(HP)

POLES

Hz

TIME RATING



DIMENSIONS

F L A N G E							M O U N T I N G								
AJ	AK	BD	BB	BC	BF	n	A	B	2E	-	2F	F3	G	J	H
5.875	4.50	6.57	0.16	+0.12	3/8-16	4	6.78	6.15	5.50	-	4.00	2.50	0.45	1.36	0.34

C O N D U I T B O X						O V E R A L L							APPROX. WGT.(LB)
AA	AB	AC	XB	XL	XN	BA	C	D	L	O	P	T	
0.75	7.02	5.34	1.53	5.26	4.61	2.25	13.05	3.50	6.05	7.46	7.64	1.63	55

S H A F T						KEY THK.	B E A R I N G	
U	N-W	A-H	KEYWAY				DRIVE END	OPP. DRIVE END
			R	ES	S			
0.875	2.25	2.12	0.771	1.41	0.188	0.188	6205ZZ	6204ZZ

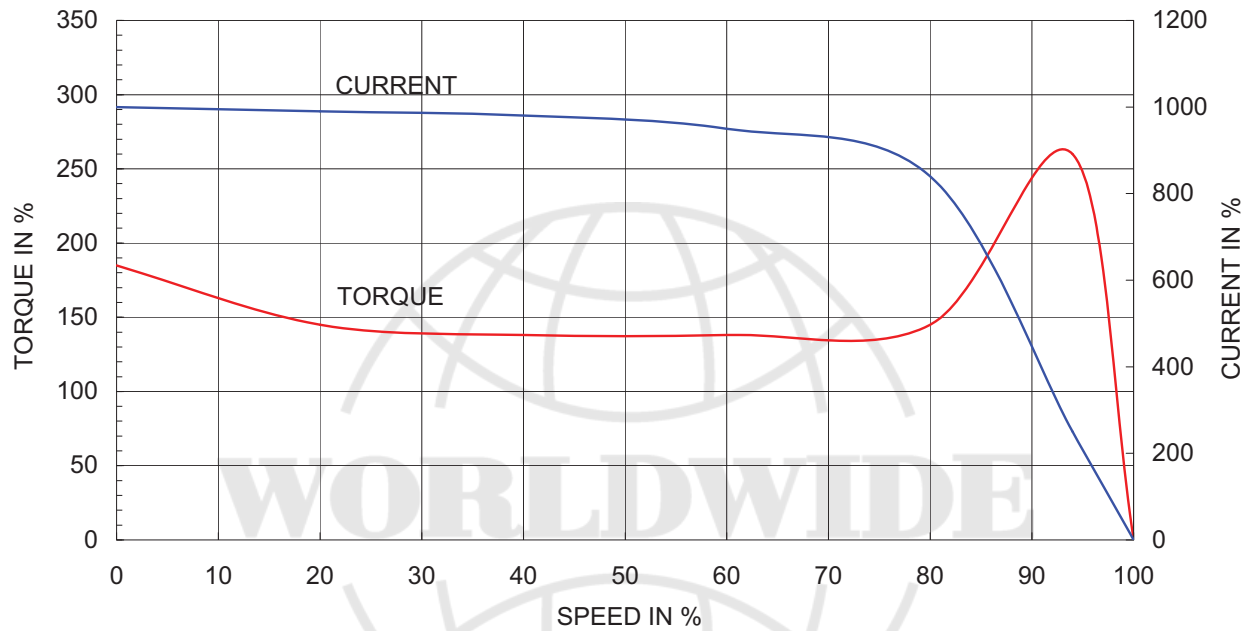
NOTE

- 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 143TC(KIT)	CAD PROJ \ FILE
CHKD BY	N.D.LEE	SCALE	1/8			SCALE-NEMA\A1301AA
CHKD BY	K.S.LEE	PROJEC'N	3rd Angle	TITLE OUTLINE		
DSND BY	S.W.SEO	DATE	2010.12.20			
				REF. NO	350A8301AA	Sheet No. of
				DWG NO	350A8301AA	Revision No. 0

Type :	PLP
Full Load Torque :	2.2 lb.ft
Motor moment of Inertia (J) :	0.033 lb.ft ²
Load moment of Inertia (J) :	3.790 lb.ft ²

1.1 kW	1.5 HP	60 Hz
2 P	Rated Speed : 3500 RPM	
Rated Voltage	460V	
Full Load Current	2.0A	

SPEED VS TORQUE & CURRENT CURVE

OUTPUT VS EFF., P.F & CURRENT CURVE
