

MODEL NUMBER	IEEE20-12-286T		
HORSEPOWER	20		
RPM / POLES	1200 / 6		
VOLTAGE / PHASE	460 / 3		
FRAME	286T		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP55		
FREQUENCY	60 HZ		
FULL LOAD SPEED	1175 RPM		
SERVICE FACTOR	1.15		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS	26.7 A		
LOCKED ROTOR CURRENT (% Full Load)	660 %		
NEMA CODE LETTER	H		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	91.7 %	77.0 %
	75 %	91.8 %	73.0 %
	50 %	91.2 %	64.5 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	89.9 lb.ft	150 %	230 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	628.858 lb.ft ²	6.100 lb.ft ²	
SOUND PRESSURE LEVEL (No Load 1 M From Motor)	68 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	6310ZC3		
OPPOSITE DRIVE-END BEARING	6310ZC3		
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	68 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





IEEE841 TEFC

THREE PHASE INDUCTION MOTOR

TYPE

PLP

CAST IRON FRAME

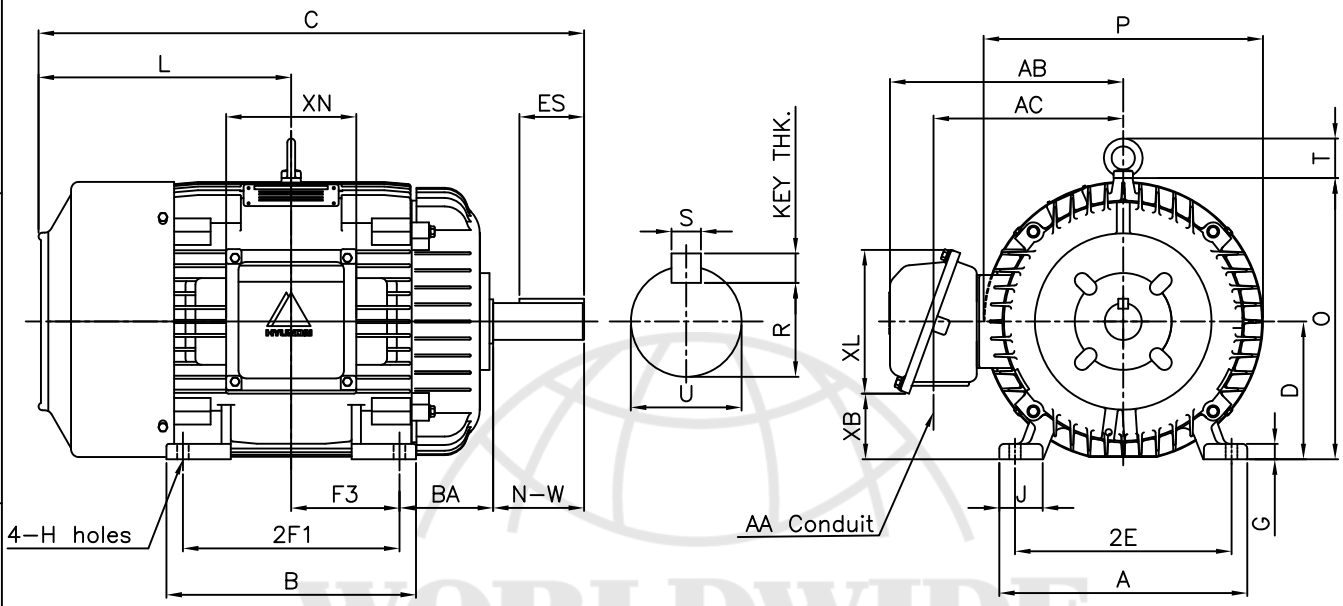
FRAME SIZE

OUTPUT(HP)

POLES

Hz

TIME RATING



DIMENSIONS

M O U N T I N G									C O N D U I T B O X						APPROX. WGT.(LB)
A	B	2E	2F1	2F2	F3	G	J	H	AA	AB	AC	XB	XL	XN	286T
12.60	12.68	11.00	11.00	-	5.50	0.78	2.20	0.53	1.50	12.43	9.64	3.42	7.56	6.61	410

O V E R A L L							S H A F T					KEY THK.	B E A R I N G	
BA	C	D	L	O	P	T	U	N-W	KEYWAY				DRIVE END	OPP. DRIVE END
									R	ES	S			
4.75	26.28	7.00	12.16	14.28	14.19	2.01	1.875	4.62	1.591	3.28	0.500	0.500	6310ZC3	6310ZC3

NOTE

- 1.Dimension "D" tolerance : +0.00inch - 0.03inch
- 2.Dimension "U" tolerance : +0.000inch - 0.001inch
- 3.Dimension "R" tolerance : +0.000inch - 0.015inch

APPD BY	J. H. KIM	UNIT	INCH	SUBJECT	NEMA 286T	CAD PROJ \ FILE	XSMOUTN\A8110AA	
CHKD BY	K. S. LEE	SCALE	1/10					
CHKD BY		PROJEC'N	3rd Angle	TITLE				OUTLINE
DSND BY	KIM IN KYU	DATE	2010.12.31					

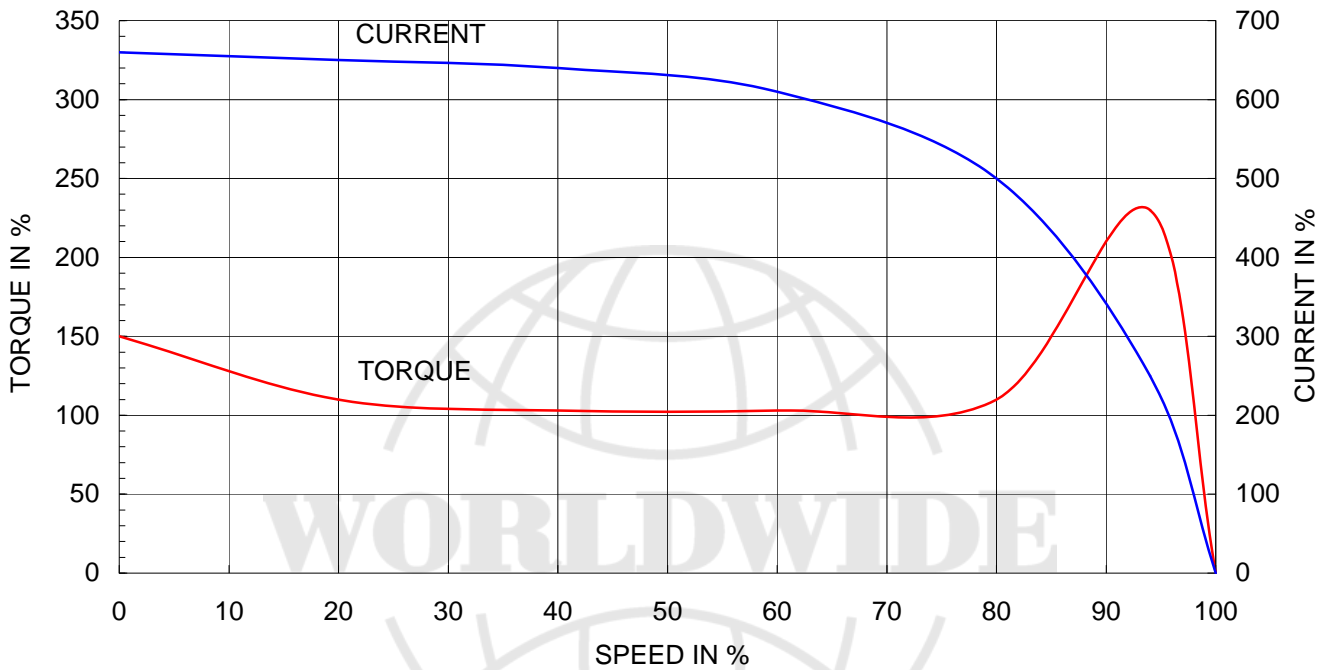


REF. NO	A1110AA	Sheet No.	of
DWG NO	350A8110AA	Revision No.	0

Type	:	PLP
Full Load Torque	:	89.9 lb.ft
Motor moment of Inertia (J)	:	6.100 lb.ft ²
Load moment of Inertia (J)	:	628.858 lb.ft ²

15 kW	20 HP	60 Hz
6 P	Rated Speed : 1175 RPM	
Rated Voltage	460V	
Full Load Current	26.7A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

