

MODEL NUMBER	HHI125-18-444TC		
HORSEPOWER	125		
RPM / POLES	1800 / 4		
VOLTAGE / PHASE	230 / 460 V / 3		
FRAME	444TC		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP54		
FREQUENCY	60 HZ		
FULL LOAD SPEED	1785 RPM		
SERVICE FACTOR	1.15 SF at 40° C / 1.0 SF at 65° C		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS; 230 / 460	284.1 / 142.0 A		
LOCKED ROTOR CURRENT (% Full Load)	700 / 700 %		
NEMA CODE LETTER	G		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	95.4 %	88.0 %
	75 %	95.5 %	86.2 %
	50 %	94.6 %	80.6 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	375.0 lb.ft.	140 %	220 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	1507.479 lb.ft. ²	52.510 lb.ft. ²	
SOUND PRESSURE LEVEL (No Load 1 M From Motor)	83 dB(A)		
NUMBER OF STARTS (Hot / Cold)	2 Hot / 3 Cold		
MAX. AMBIENT TEMPERATURE	40° C at 1.15 SF / 65° C at 1.0 SF		
MAX. ELEVATION	3300 Ft. Above Sea Level		
TEMPERATURE RISE (At Full Load)	80° C		
DRIVE-END BEARING	6318C3		
OPPOSITE DRIVE-END BEARING	6316C3		
GREASE TYPE	Mobil Polyrex EM		
MOUNTING	F1 (F2 Suitable), W6, W8, B3, V5, V6		
ROTATION	Bi-Directional		
APPROXIMATE WEIGHT	1530 lbs.		
AREA CLASSIFICATION	Class I, Division 2, Groups A, B, C, D		
INVERTER RATING	10:1 CT / 20:1 VT		
SPECIFICATION - In Accordance With	NEMA, CSA		



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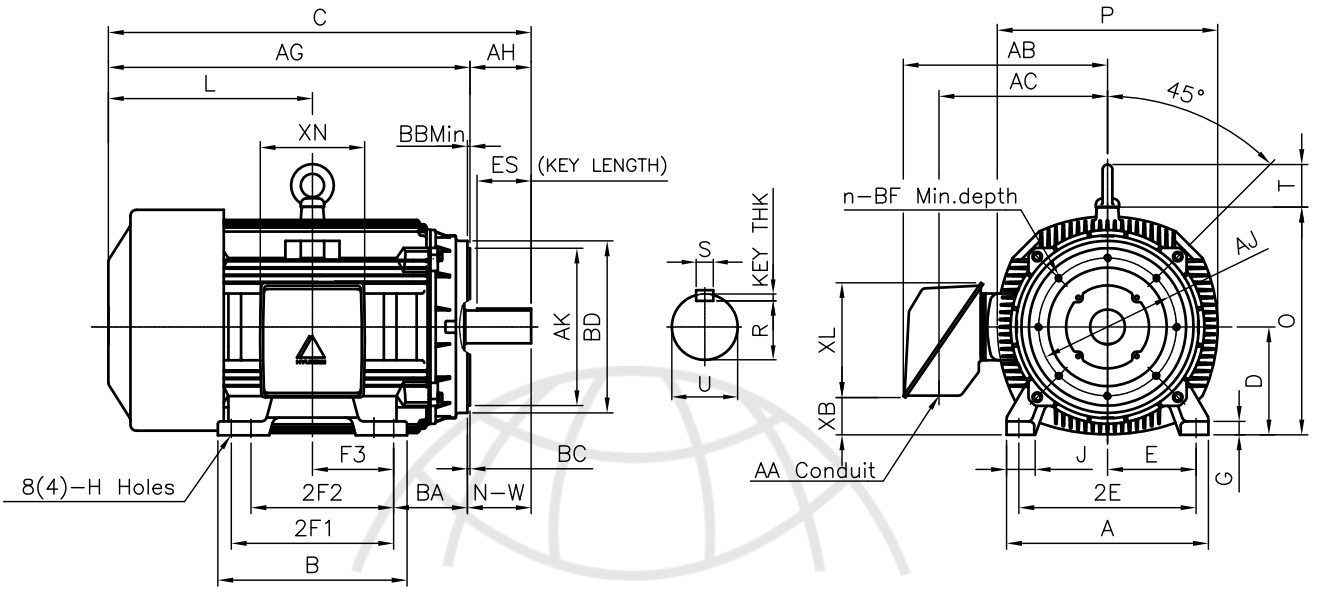


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		<h1>TEFC</h1>		TYPE		LP, JP	
		THREE PHASE INDUCTION MOTOR				Cast iron frame	

FRAME SIZE	OUTPUT(HP)	POLES	Hz	TIME RATING
444TC			60	CONT



DIMENSIONS

MOUNTING									CONDUIT BOX					APPROX. WGT.(LB)	
A	B	2E	2F1	2F2	F3	G	J	H	AA	AB	AC	XB	XL	XN	
20.51	19.21	18.00	(16.50)	14.50	8.248	1.42	3.07	0.81	3.00	21.26	18.03	3.83	11.65	10.63	1530

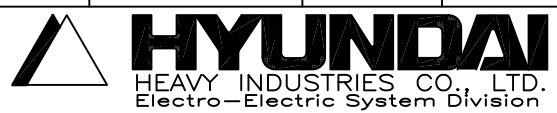
OVERALL									SHAFT			KEY	BEARING		
BA	C	D	L	O	P	T	AG	U	N-W	KEYWAY			THK.	DRIVE END	OPP. DRIVE END
										R	ES	S			
7.50	45.21	11.00	20.96	23.19	22.44	4.33	36.71	3.375	8.50	2.880	6.93	0.875	0.875	6318C3	6316C3

C - F A C E								
AJ	AK	BB Min	BC	BD	BF	BF depth	n	AH
14.00	16.00	0.25	0.25	16.93	5/8-11	0.94	8	8.25

NOTE

- Dimension "D" tolerance : +0.00inch ~ -0.03inch (143TC-365TC) : +0.000inch ~ -0.06inch (404TC-449TC)
- Dimension "U" tolerance : +0.000inch ~ -0.0005inch (143TC-215TC): +0.000inch ~ -0.001inch (254TC-449TC)
- Dimension "R" tolerance : +0.000inch ~ - 0.015inch
- Dimension "AK" tolerance : +0.000inch ~ -0.003inch (143TC-286TC): +0.000inch ~ -0.005inch (324TC-449TC)

APPD BY	K.J. KANG	UNIT	INCH	SUBJECT	444TC	CAD PROJ \ FILE
CHKD BY		SCALE	N/S	TITLE	<h2>OUTLINE</h2>	MMSTDMTR\A1317AA
CHKD BY		PROJEC'N	3rd Angle			
DSND BY	N.D.LEE	DATE	2011.02.09			

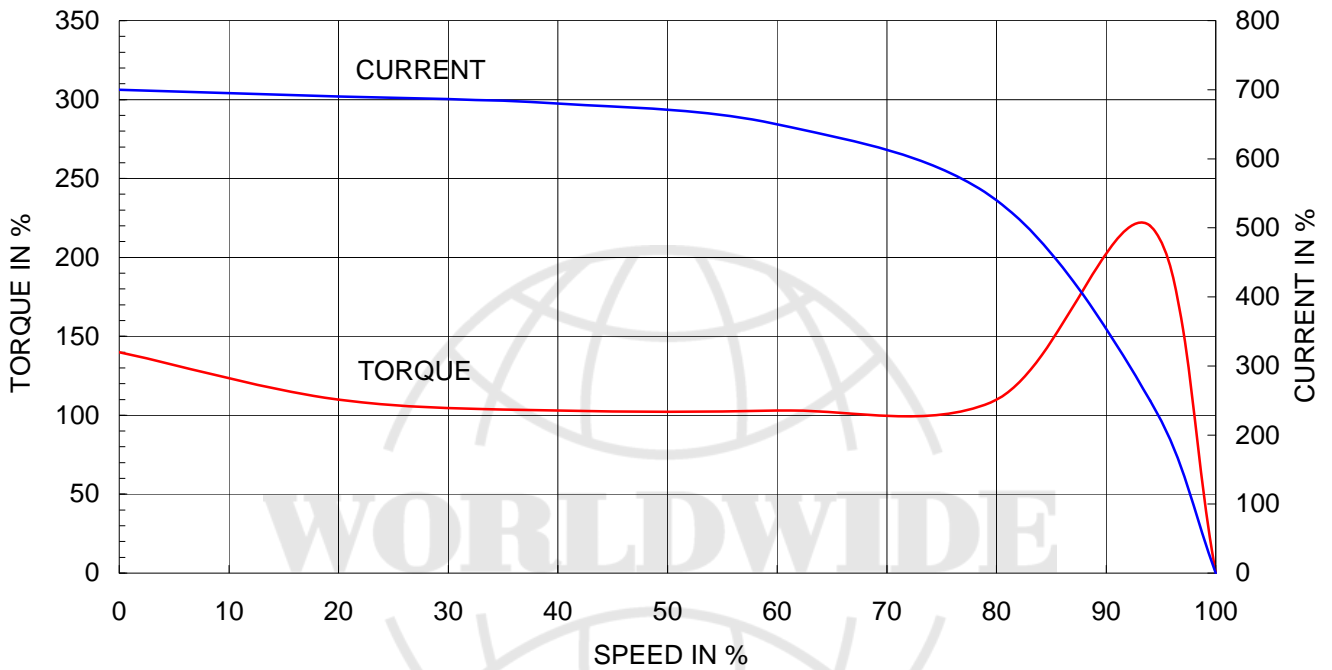


REF. NO	A1317AA	Sheet No.	of
DWG NO	350A1317AA	Revision No.	0

Type :	PLP
Full Load Torque :	375.0 lb.ft
Motor moment of Inertia (J) :	52.510 lb.ft ²
Load moment of Inertia (J) :	1507.479 lb.ft ²

95 kW	125 HP	60 Hz
4 P	Rated Speed : 1785 RPM	
Rated Voltage	575V	460V
Full Load Current	113.6A	142.0A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

