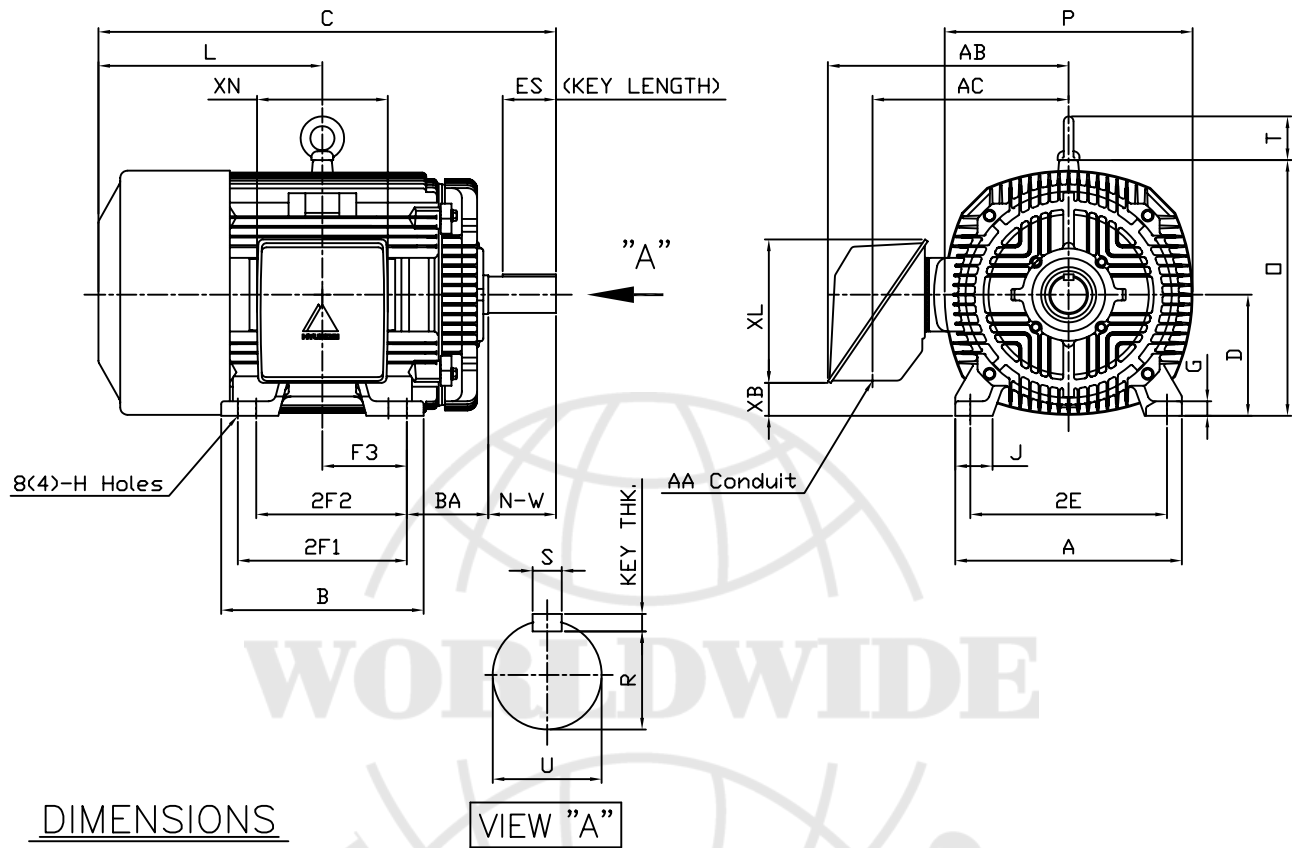


MODEL NUMBER	IEEE100-36-405TS		
HORSEPOWER	100		
RPM / POLES	3600 / 2		
VOLTAGE / PHASE	460 / 3		
FRAME	405TS		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP55		
FREQUENCY	60 HZ		
FULL LOAD SPEED	3570 RPM		
SERVICE FACTOR	1.15		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS	110.1 A		
LOCKED ROTOR CURRENT (% Full Load)	700 %		
NEMA CODE LETTER	G		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	94.5 %	90.5 %
	75 %	94.5 %	89.5 %
	50 %	92.4 %	87.5 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	148.0 lb.ft	120 %	220 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	214.761 lb.ft ²	18.450 lb.ft ²	
SOUND PRESSURE LEVEL (No Load 1 M From Motor)	82 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	6313C3		
OPPOSITE DRIVE-END BEARING	6313C3		
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	Uni-Directiona, CCW		
APPROXIMATE WEIGHT	1110 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		

1		2		3		4	
 HYUNDAI HEAVY INDUSTRIES CO., LTD.		IEEE841 TEFC THREE PHASE INDUCTION MOTOR				TYPE	PLP
							Cast iron frame
FRAME SIZE		OUTPUT(HP)		POLES		Hz	TIME RATING
405TS						60	CONT



DIMENSIONS

VIEW "A"

MOUNTING

CONDUIT BOX

APPROX.
WGT.(LB)

A	B	2E	2F1	2F2	F3	G	J	H	AA	AB	AC	XB	XL	XN	
18.43	16.46	16.00	13.75	(12.25)	6.870	1.18	3.03	0.81	3.00	20.28	14.85	2.83	11.65	10.63	1110

OVERALL

SHAFT

KEY

BEARING

BA	C	D	L	O	P	T	U	N-W	KEYWAY			THK.	DRIVE END	OPP. DRIVE END
									R	ES	S			
6.62	38.00	10.00	20.57	20.79	20.16	3.55	2.125	4.25	1.845	2.80	0.500	0.500	6313C3	6313C3

NOTE

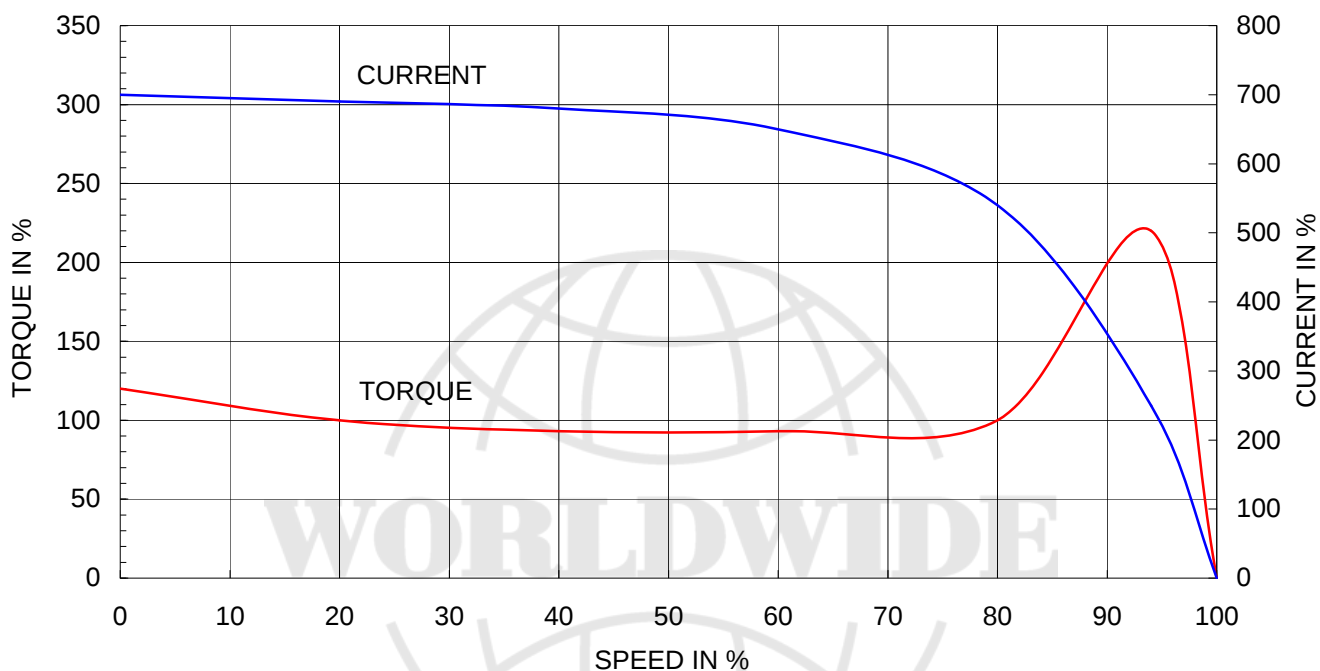
1. Dimension "D" tolerance : +0.00inch - 0.03inch (143T-365T) ; +0.000inch - 0.06inch (404T-449T)
2. Dimension "U" tolerance : +0.000inch - 0.005inch (143T-215T), +0.000inch - 0.001inch (254T-449T)
3. Dimension "R" tolerance : +0.000inch - 0.015inch

Q'TY	DESCRIPTION		MATERIAL	DIMENSION		WEIGHT	PART NO.	REMARK	NO.
APPD BY	K.J.KANG	UNIT	INCH	SUBJECT	405TS	CAD PROJ 8 \ FILE 8			
Q.P CHK	O.J.KIM	SCALE	N/S			MMSTDMTR\A8116BA			
CHKD BY	N.D.LEE	PROJEC'N	3 각법(3rd Angle)	TITLE OUTLINE					
DSND BY	A.L.SHIN	DATE	2011.03.31						
 HYUNDAI HEAVY INDUSTRIES CO., LTD.				REF. NO	A8116BA		Sheet No.		of
				DWG NO	350A8116BA		Revision No.		0

Type	:	PLP
Full Load Torque	:	148.0 lb.ft
Motor moment of Inertia (J)	:	18.450 lb.ft ²
Load moment of Inertia (J)	:	214.761 lb.ft ²

75 kW	100 HP	60 Hz
2 P	Rated Speed	: 3570 RPM
Rated Voltage	460V	
Full Load Current	110.1A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

