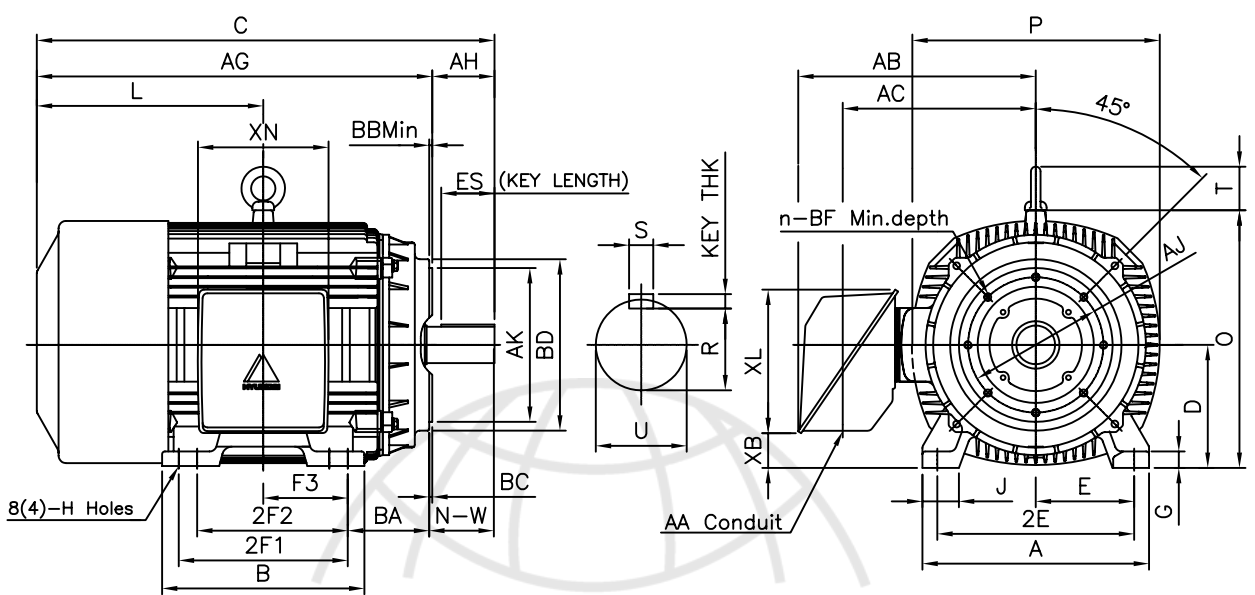


MODEL NUMBER	IEEE100-18-405TC		
HORSEPOWER	100		
RPM / POLES	1800 / 4		
VOLTAGE / PHASE	460 / 3		
FRAME	405TC		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP55		
FREQUENCY	60 HZ		
FULL LOAD SPEED	1780 RPM		
SERVICE FACTOR	1.15		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS	114.1 A		
LOCKED ROTOR CURRENT (% Full Load)	650 %		
NEMA CODE LETTER	G		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	95.4 %	86.5 %
	75 %	95.4 %	84.5 %
	50 %	94.1 %	78.4 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	296.8 lb.ft.	140 %	220 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>		<u>MOTOR</u>
	1337.213 lb.ft. ²		35.910 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	6316C3		
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	Bi-Directional		
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
405TC			60	CONT



DIMENSIONS

M O U N T I N G									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	1220

O V E R A L L								S H A F T					KEY	BEARING	
BA	C	D	L	O	P	T	AG	U	N-W	KEYWAY			THK.	DRIVE END	OPP. DRIVE END
										R	ES	S			
6.62	41.01	10.00	20.57	20.79	19.69	3.55	32.17	2.875	7.25	2.450	5.65	0.750	0.750	6316C3	6313C3

C - F A C E								
AJ	AK	BB Min	BC	BD	BF	BF depth	n	AH
11.00	12.50	0.25	0.25	13.78	5/8-11	0.94	8	7.00

NOTE

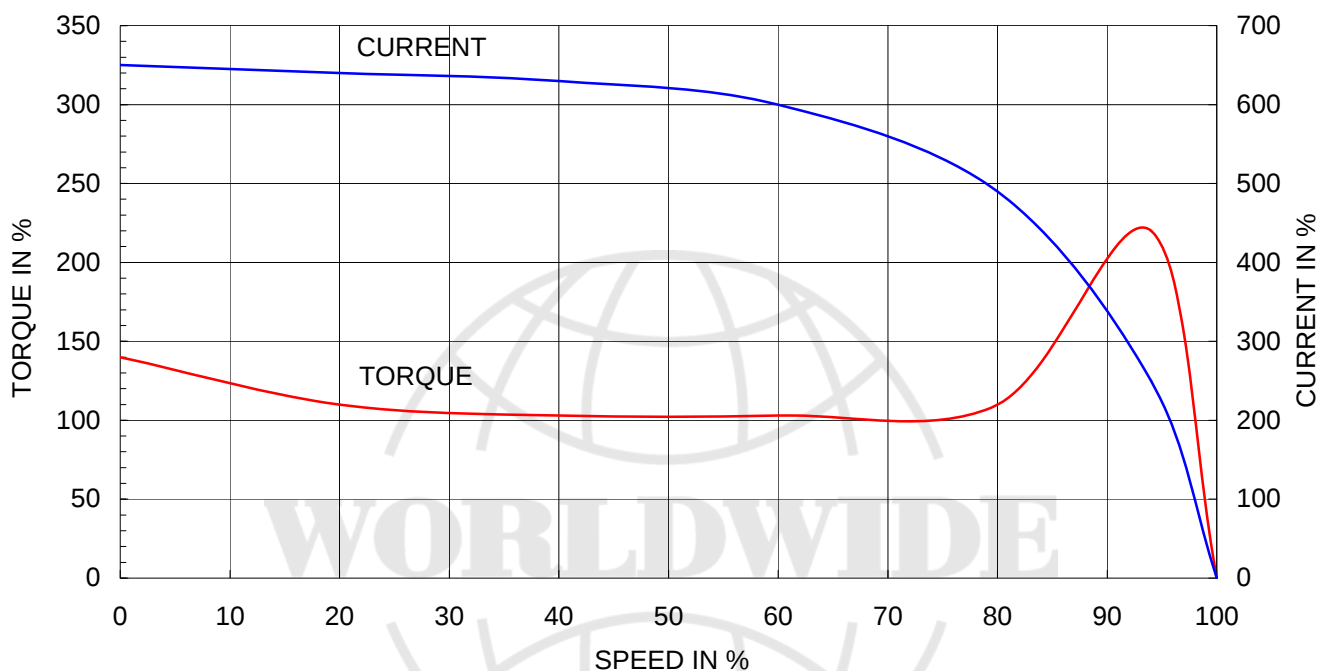
- 1.Dimension "D" tolerance : +0.00inch ~ -0.03inch (143TC-365TC) : +0.000inch ~ -0.06inch (404TC-449TC)
- 2.Dimension "U" tolerance : +0.000inch ~ -0.0005inch (143TC-215TC): +0.000inch ~ -0.001inch (254TC-449TC)
- 3.Dimension "R" tolerance : +0.000inch ~ - 0.015inch
- 4.Dimension "AK" tolerance : +0.000inch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

APPD BY	K.J.KANG	UNIT	INCH	SUBJECT	405TC	CAD PROJ \ FILE	
CHKD BY	O.J.KIM	SCALE	N/S			MMSTDMTR\A8316AA	
CHKD BY	N.D.LEE	PROJEC'N	3rd Angle			TITLE	OUTLINE
DSND BY	A.L.SHIN	DATE	2011.04.01				
 HYUNDAI HEAVY INDUSTRIES CO., LTD. Electro-Electric System Division				REF. NO	A8316AA	Sheet No. of	
				DWG NO	350A8316AA	Revision No. 0	

Type	:	PLP
Full Load Torque	:	296.8 lb.ft
Motor moment of Inertia (J)	:	35.910 lb.ft ²
Load moment of Inertia (J)	:	1337.213 lb.ft ²

75 kW		100 HP		60 Hz
4 P		Rated Speed : 1780 RPM		
Rated Voltage	460V			
Full Load Current	114.1A			

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

