

MODEL NUMBER	IEEE250-18-449T		
HORSEPOWER	250		
RPM / POLES	1800 / 4		
VOLTAGE / PHASE	460 / 3		
FRAME	449T		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP55		
FREQUENCY	60 HZ		
FULL LOAD SPEED	1785 RPM		
SERVICE FACTOR	1.15		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS	281.7 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 %	96.2 %	88.0 %
	75 %	96.3 %	86.2 %
	50 %	95.4 %	80.6 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	749.9 lb.ft	140 %	220 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	3318.708 lb.ft ²	105.370 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	NU318		
OPPOSITE DRIVE-END BEARING	6316C3		
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	2430 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		

HYUNDAI HEAVY INDUSTRIES CO., LTD.	IEEE841 TEFC THREE PHASE INDUCTION MOTOR	TYPE	PLP Cast iron frame
FRAME SIZE	OUTPUT(HP)	POLES	TIME RATING
449T			60 CONT

VIEW "A"

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	
20.51	27.72	18.00	25.00	(20.00)	12.500	1.42	3.07	0.81	3.00	23.78	20.70	3.14	16.30	13.78	2430

O V E R A L L								S H A F T			KEY	BEARING		
BA	C	D	L	O	P	T	U	N-W	KEYWAY			THK.	DRIVE END	OPP. DRIVE END
									R	ES	S			
7.50	53.83	11.00	26.92	23.19	22.40	4.33	3.375	8.50	2.880	6.93	0.875	0.875	NU318	6316C3

NOTE

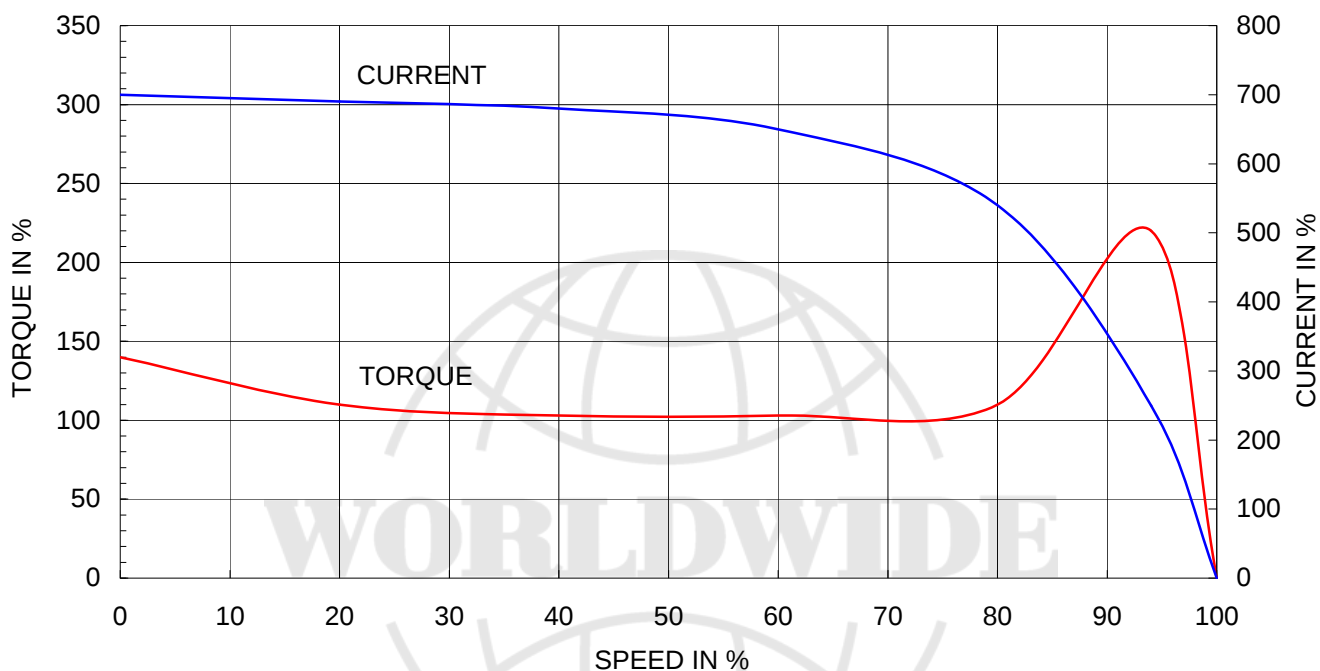
1. Dimension "D" tolerance : +0.00inch - 0.03inch (143T-365T) ; +0.000inch - 0.06inch (404T-449T)
2. Dimension "U" tolerance : +0.000inch - 0.005inch (143T-215T), +0.000inch - 0.001inch (254T-449T)
3. Dimension "R" tolerance : +0.000inch - 0.015inch

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	K.J.KANG	UNIT	INCH	SUBJECT	449T	CAD PROJ & FILE &	
Q.P CHK	O.J.KIM	SCALE	N/S	MMSTDMTR\A8120AA			
CHKD BY	N.D.LEE	PROJEC'N	3 각법(3rd Angle)	OUTLINE			
DSND BY	A.L.SHIN	DATE	2011.03.31				
HYUNDAI HEAVY INDUSTRIES CO., LTD.				REF. NO	A8120AA	Sheet No.	of
				DWG NO	350A8120AA	Revision No.	0

Type	:	PLP
Full Load Torque	:	749.9 lb.ft
Motor moment of Inertia (J)	:	105.370 lb.ft ²
Load moment of Inertia (J)	:	3318.708 lb.ft ²

190 kW	250 HP	60 Hz
4 P	Rated Speed	: 1785 RPM
Rated Voltage	460V	
Full Load Current	281.7A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

