

MODEL NUMBER	IEEE20-18-256T		
HORSEPOWER	20		
RPM / POLES	1800 / 4		
VOLTAGE / PHASE	460 / 3		
FRAME	256T		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP55		
FREQUENCY	60 HZ		
FULL LOAD SPEED	1775 RPM		
SERVICE FACTOR	1.15		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS	24.8 A		
LOCKED ROTOR CURRENT (% Full Load)	680 %		
NEMA CODE LETTER	H		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	93.0 %	81.5 %
	75 %	93.0 %	78.0 %
	50 %	92.0 %	70.0 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	59.5 lb.ft	200 %	240 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	303.750 lb.ft ²	2.635 lb.ft ²	
SOUND PRESSURE LEVEL (No Load 1 M From Motor)	74 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	6309ZC3		
OPPOSITE DRIVE-END BEARING	6309ZC3		
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	300 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

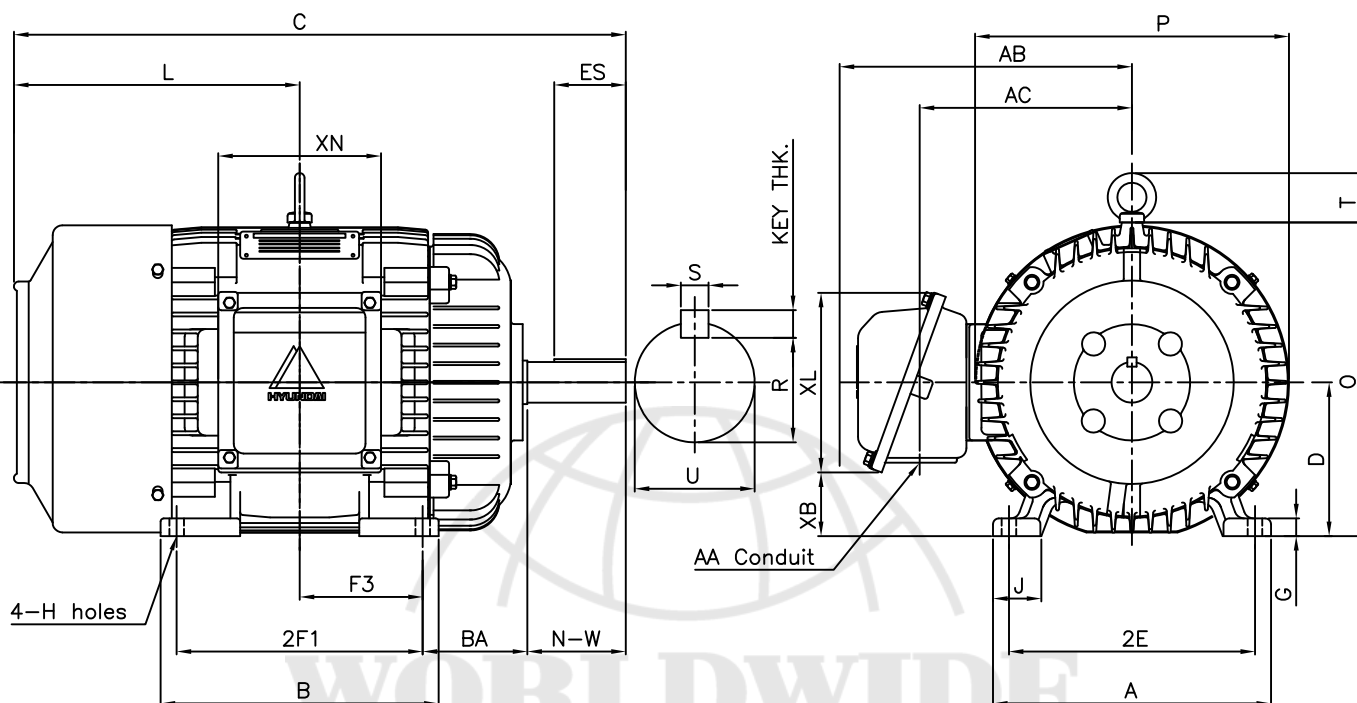
FRAME SIZE

OUTPUT(HP)

POLES

Hz

TIME RATING

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	
11.30	11.30	10.00	10.00	—	5.00	0.72	1.93	0.53	1.25	11.88	9.08	2.63	7.56	6.61	300

O V E R A L L							S H A F T					KEY THK.	BEARING	
BA	C	D	L	O	P	T	U	N-W	KEYWAY				DRIVE END	OPP. DRIVE END
									R	ES	S			
4.25	24.93	6.25	11.68	12.75	12.76	2.01	1.625	4.00	1.416	2.91	0.375	0.375	6309ZC3	6309ZC3

NOTE

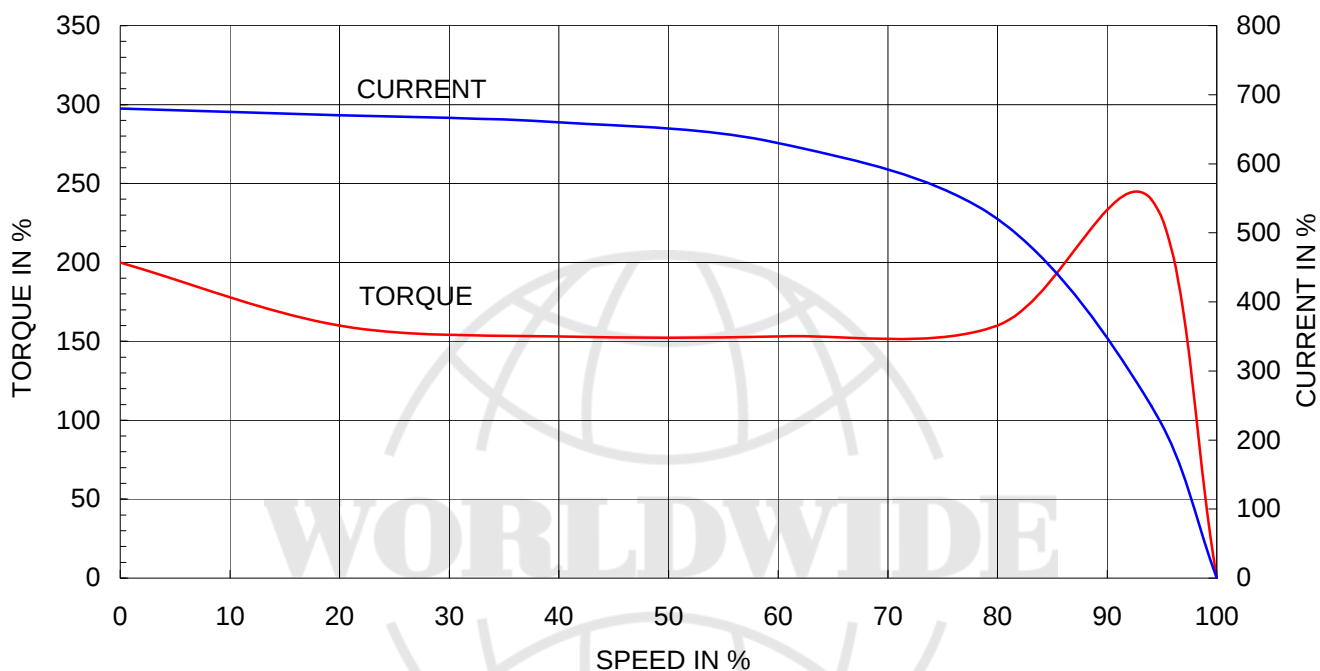
- 1.Dimension "D" tolerance : +0.00inch - 0.03inch
- 2.Dimension "U" tolerance : +0.000inch - 0.001inch
- 3.Dimension "R" tolerance : +0.000inch - 0.015inch

APPD BY	J. H. KIM	UNIT	INCH	SUBJECT	NEMA 256T	CAD PROJ \ FILE
CHKD BY	K. S. LEE	SCALE	1/8	TITLE	OUTLINE	XSMOUTN\A8108AA
CHKD BY		PROJEC'N	3rd Angle			
DSND BY	KIM IN KYU	DATE	2010.12.31			
HYUNDAI HEAVY INDUSTRIES CO., LTD. Electro-Electric System Division				REF. NO	A1108AA	Sheet No. of
				DWG NO	350A8108AA	Revision No. 0

Type	:	PLP
Full Load Torque	:	59.5 lb.ft
Motor moment of Inertia (J)	:	2.635 lb.ft ²
Load moment of Inertia (J)	:	303.750 lb.ft ²

15 kW		20 HP		60 Hz
4 P		Rated Speed : 1775 RPM		
Rated Voltage	460V			
Full Load Current	24.8A			

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

