HYUNDAI HEAVY INDUSTRIES CO.,LTD.

WORLDWIDE Electric Corp

AC INDUCTION MOTOR DATA SHEET
IEEE-841 MOTORS

MODEL NUMBER	**IEEE200-36-447TS**		
HORSEPOWER	**200**		
RPM / POLES	**3600 / 2**		
VOLTAGE / PHASE	**460 / 3**		
FRAME	**447TS**		
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	**219.3 A**		
LOCKED ROTOR CURRENT (% Full Load)	**700 %**		
NEMA CODE LETTER	**G**		
EFFICIENCY / POWER FACTOR	LOAD	EFF.	P.F.
	100 %	**95.4 %**	**90.0 %**
	75 %	**95.4 %**	**89.0 %**
	50 %	**93.9 %**	**87.0 %**
DUTY CYCLE	**S1 / Continuous**		
TORQUE	FULL LOAD	LRT	BDT
	296.0 lb.ft	**120 %**	**220 %**
NEMA DESIGN	**B**		
MOMENT OF INERTIA	LOAD (Max.)		MOTOR
	341.126 lb.ft^2		**44.130 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	**6314C3**		
OPPOSITE DRIVE-END BEARING	**6314C3**		
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-Directional, CCW**		
APPROXIMATE WEIGHT	**1900 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**		

C SP US CSA E EEV 109973 ee CC 038A CE VL

REVISED 08/01/13

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본 도면은 현대중공업(주) 재산이므로 허가없이 복사할 수 없습 (취급유의)

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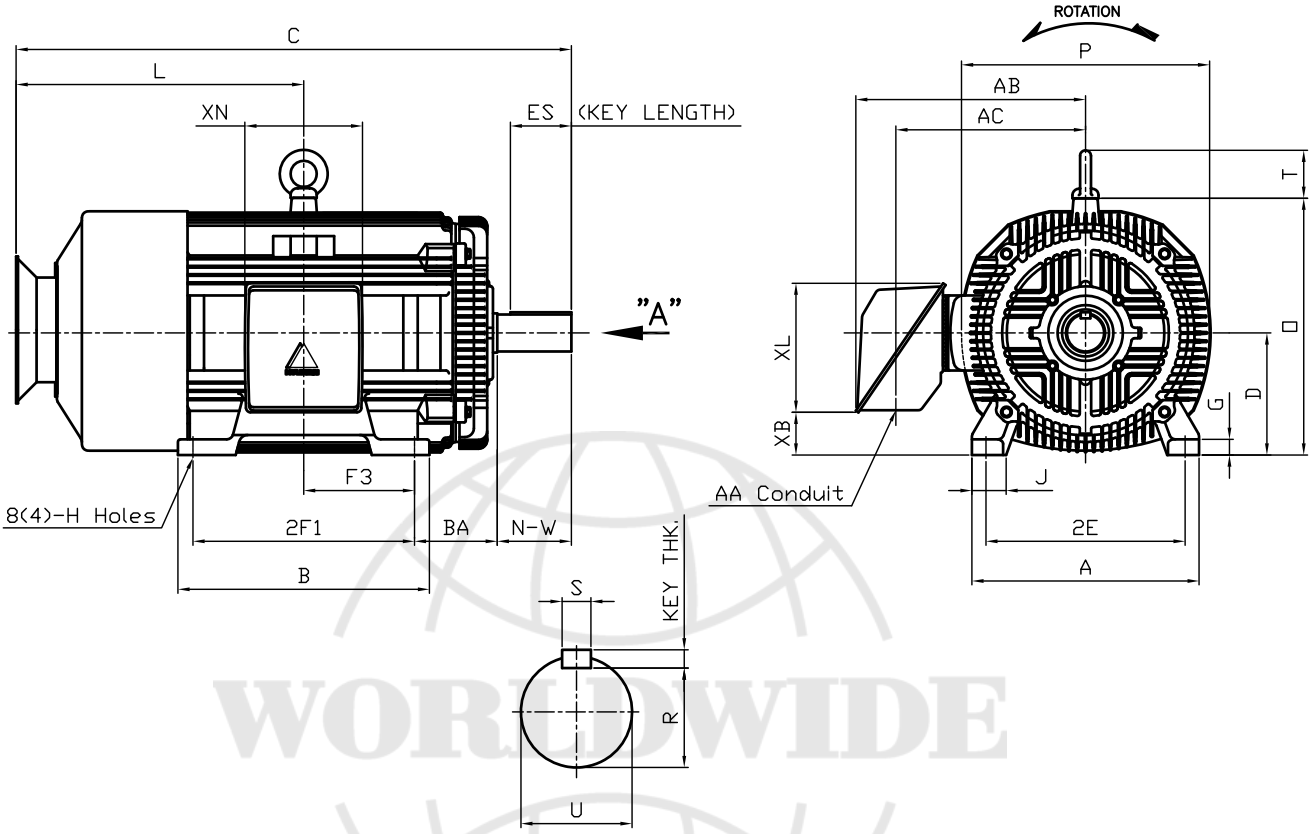
HYUNDAI HEAVY INDUSTRIES CO., LTD.

IEEE841 TEFC
THREE PHASE INDUCTION MOTOR

TYPE	PLP
	Cast iron frame

FRAME SIZE	OUTPUT(HP)	POLES	Hz	TIME RATING
447TS			60	CONT



VIEW "A"

DIMENSIONS

MOUNTING									CONDUIT BOX						APPROX. WGT.(LB)
A	B	2E	2F1	2F2	F3	G	J	H	AA	AB	AC	XB	XL	XN	
20.51	22.72	18.00	20.00	–	10.000	1.42	3.07	0.81	3.00	23.78	20.70	3.14	16.30	13.78	1900

OVERALL							SHAFT					KEY	BEARING	
BA	C	D	L	O	P	T	U	N–W	KEYWAY			THK.	DRIVE END	OPP. DRIVE END
									R	ES	S			
7.50	50.65	11.00	28.43	23.19	22.40	4.33	2.375	4.75	2.021	3.03	0.625	0.625	6314C3	6314C3

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
Q.P CHK	O.J.KIM	SCALE	N/S
CHKD BY	N.D.LEE	PROJEC'N	3 각법(3rd Angle)
DSND BY	A.L.SHIN	DATE	2011.03.31

SUBJECT	447TS	CAD PROJ 명 \ FILE 명
		MMSTDMTR\A8119BA
TITLE	OUTLINE	

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REF. NO	A8119BA	Sheet No. of
DWG NO	350A8119BA	Revision No. 0

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PERFORMANCE CURVE

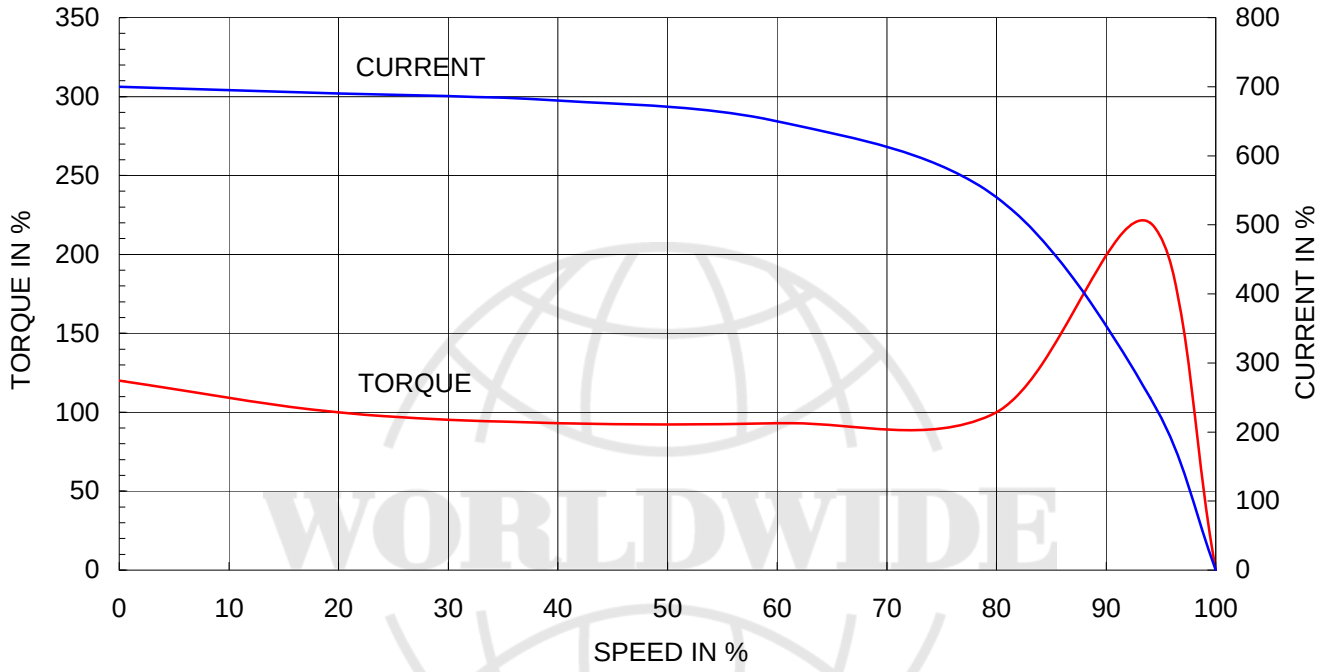
CURVE NO.

P-PLP447SR02

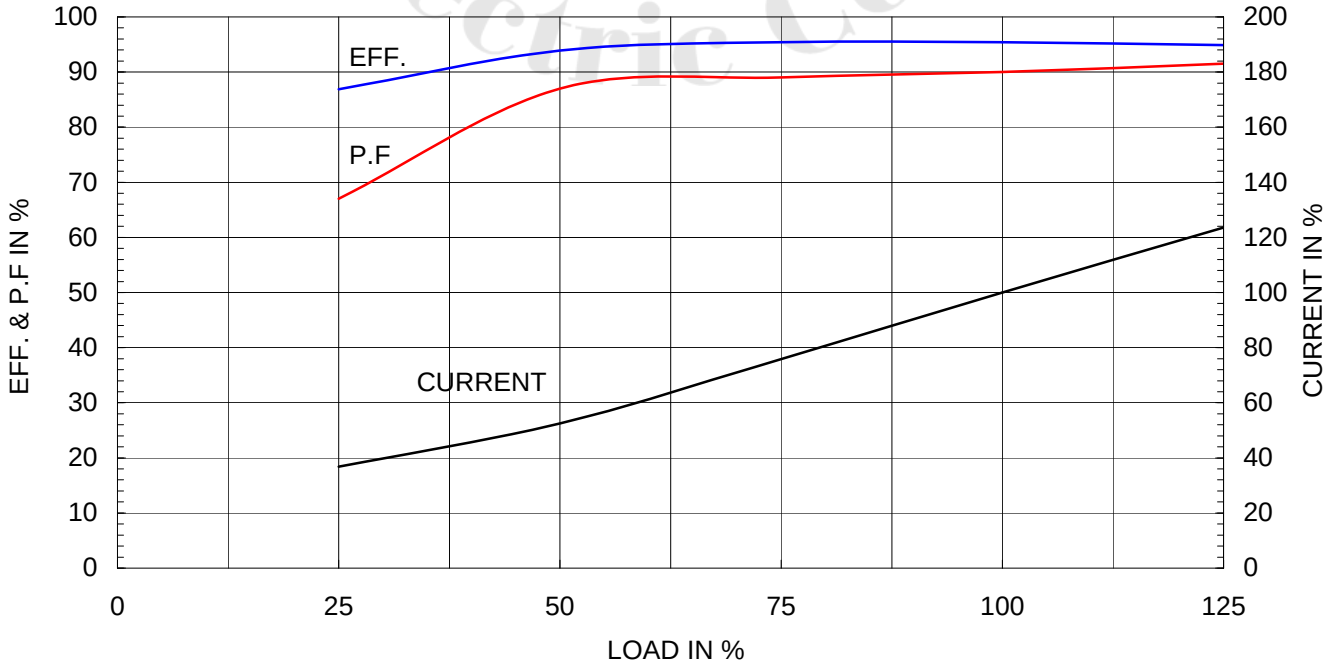
Type :	PLP		
Full Load Torque :	296.0	lb.ft	
Motor moment of Inertia (J) :	44.130	lb.ft ^{2}	
Load moment of Inertia (J) :	341.126	lb.ft ^{2}	

150 kW	200 HP		60 Hz	
2 P	Rated Speed :	3570 RPM		
Rated Voltage	460V			
Full Load Current	219.3A			

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



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