HYUNDAI HEAVY INDUSTRIES CO.,LTD.

WORLDWIDE Electric Corp

AC INDUCTION MOTOR DATA SHEET
CROWN SIGNATURE MOTORS

MODEL NUMBER	**HSD300-18-L449T**		
HORSEPOWER	**300**		
RPM / POLES	**1800 / 4**		
VOLTAGE / PHASE	**460 V / 3**		
FRAME	**L449T**		
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	**336.4 A**		
LOCKED ROTOR CURRENT	**2354.7 A**		
NEMA CODE LETTER	**G**		
EFFICIENCY / POWER FACTOR	LOAD	EFF.	P.F.
	100 %	**95.4 %**	**88.0 %**
	75 %	**95.5 %**	**84.7 %**
	50 %	**95.1 %**	**76.2 %**
DUTY CYCLE	**S1 / Continuous**		
TORQUE	FULL LOAD	LRT	BDT
	888.1 lb.ft.	**135 %**	**225 %**
NEMA DESIGN	**B**		
MOMENT OF INERTIA	LOAD (Max.)		MOTOR
	1200 lb.ft.^{2}		**101.1 lb.ft.^{2}**
SOUND PRESSURE LEVEL (No Load 1 M From Motor)	**85 dB(A)**		
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	**NU322**		
OPPOSITE DRIVE-END BEARING	**6318C3**		
GREASE TYPE	**Mobil Polyrex EM**		
MOUNTING	**F1**		
ROTATION	**Bi-Directional**		
APPROXIMATE WEIGHT	**2890 lbs.**		
AREA CLASSIFICATION	**Class I, Division 2, Groups A, B, C, D**		
TEMPERATURE CODE	**T3 Up To 45°C**		
INVERTER RATING	**10:1 CT / 20:1 VT**		
SPECIFICATION - In Accordance With	**NEMA, CSA**		

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

REVISED 8/4/14

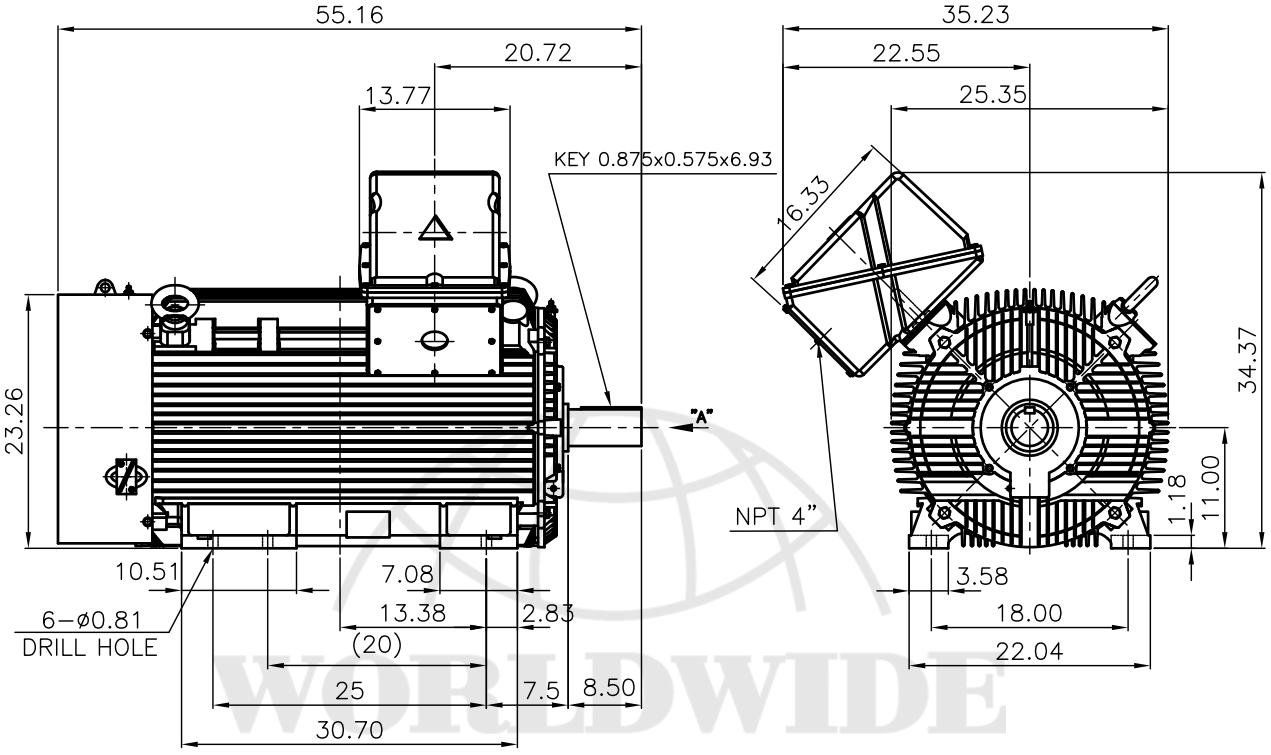
HYUNDAI HEAVY INDUSTRIES CO., LTD.

HYUNDAI HEAVY INDUSTRIES CO., LTD.

TEFC

THREE PHASE INDUCTION MOTOR

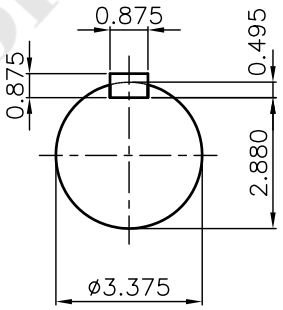
TYPE	L,J,LP,JP
	CAST IRON FRAME



NOTE

1.TOLERANCE :

CENTER HEIGHT	11	+0.000 −0.060
SHAFT DIAMETER	ø3.375	+0.000 −0.001
KEYWAY WIDTH	0.875	+0.003 −0.000



VIEW "A"

TEFC STANDARD

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.

APPD BY	강경중	UNIT	mm
CHKD BY	김진홍	SCALE	1/18
CHKD BY	김옥진	PROJEC'N	3각법(3rd Angle)
DSND BY	김양규	DATE	2013-01-05

SUBJECT	XL SERIES Fr.449T-4P(44KJH)		DWG SIZE A4 (1:18)
TITLE	NEMA STD SHAFT(4140 SHAFT) Outline		
REF. NO			Sheet No. of
DWG NO	LM-T044XB3PL001		Revision No. 1

HYUNDAI HEAVY INDUSTRIES CO., LTD.

THIS DRAWING IS PROPRIETARY TO HHI. NO PART OF THIS DRAWING MAYBE REPRODUCED WITHOUT THE PERMISSION OF HHI.

WORLDWIDE Electric Corp

HYUNDAI HEAVY INDUSTRIES CO.,LTD.

PERFORMANCE CURVE

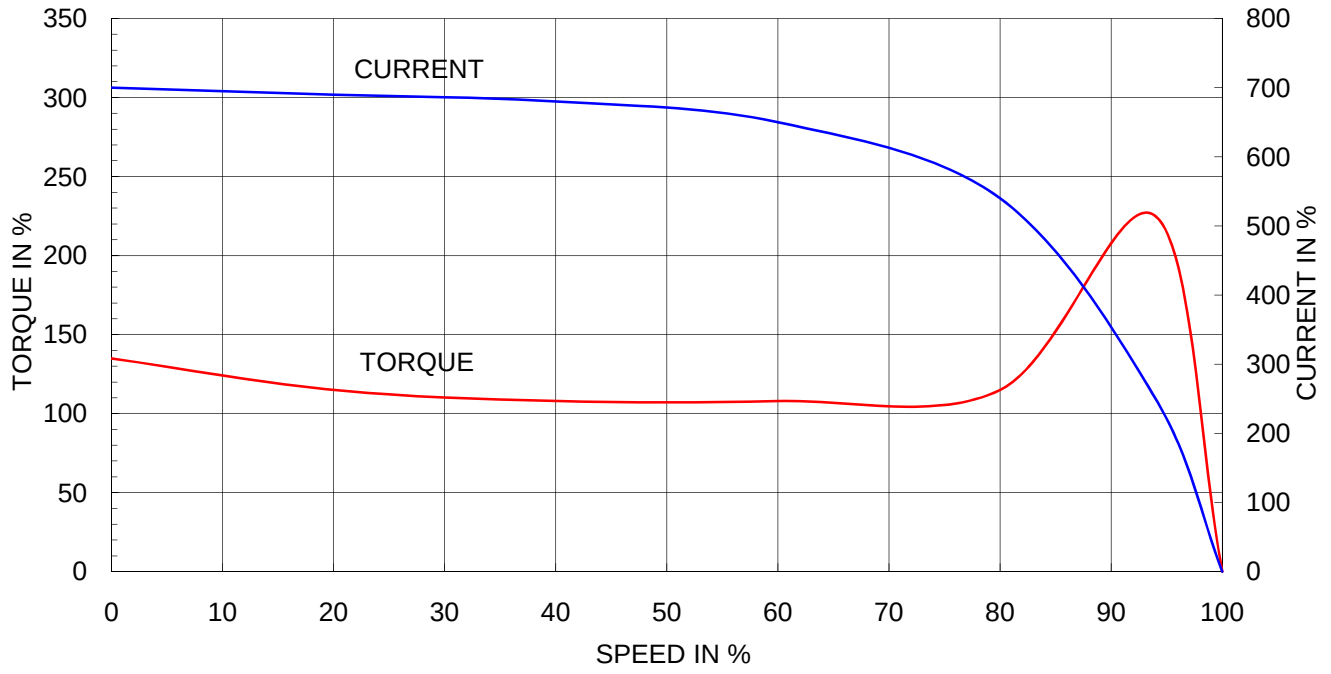
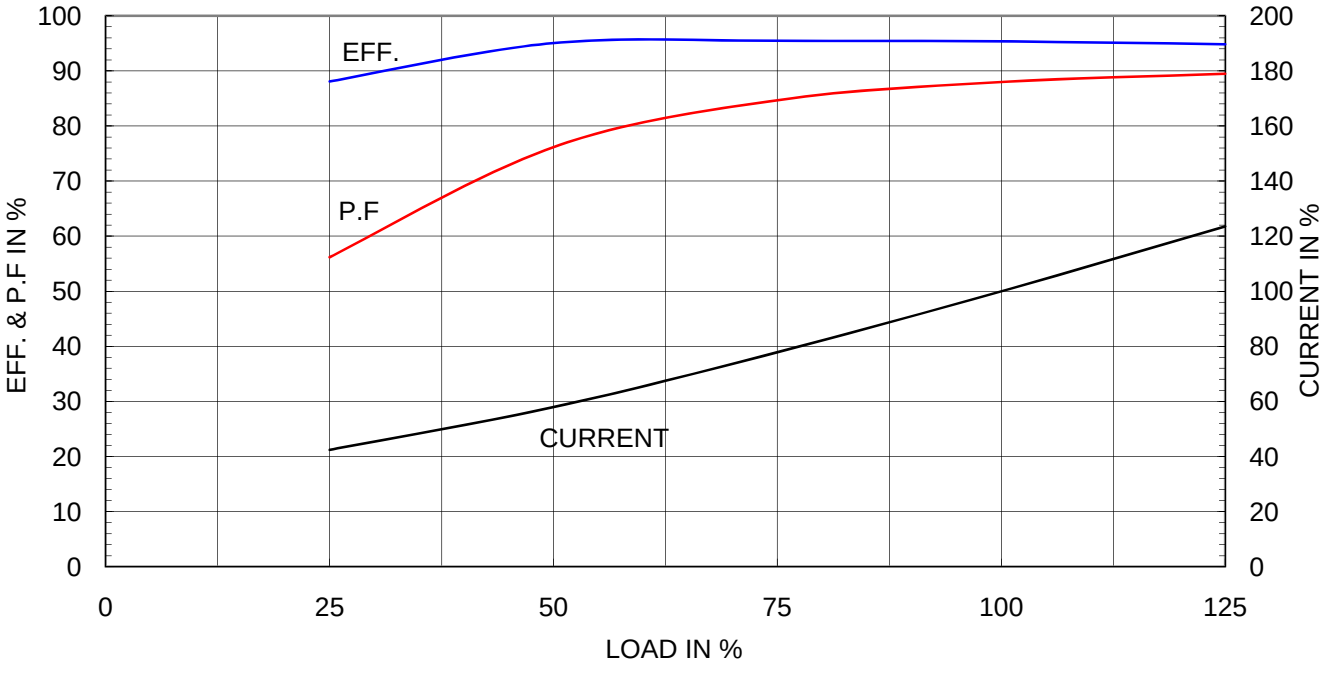
CURVE NO.

P-PJ44KSR04

Type :	PJ		
Full Load Torque :	888.1	lb.ft	
Motor moment of Inertia (J) :	101.1	lb.ft ^{2}	
Load moment of Inertia (J) :	1200.0	lb.ft ^{2}	

225 kW	300 HP	60 Hz		
4 P	Rated Speed :	1785 RPM		
Rated Voltage	575V	460V	230V	
Full Load Current	269.1A	336.4A	672.8A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE