

MODEL NUMBER	IEEE10-18-215TC		
HORSEPOWER	10		
RPM / POLES	1800 / 4		
VOLTAGE / PHASE	460 / 3		
FRAME	215TC		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP56		
FREQUENCY	60 HZ		
FULL LOAD SPEED	1760 RPM		
SERVICE FACTOR	1.15		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS; 460	12.8 A		
LOCKED ROTOR CURRENT (% Full Load)	750 %		
NEMA CODE LETTER	J		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	91.7 %	80.5 %
	75 %	91.7 %	76.0 %
DUTY CYCLE	50 %	89.7 %	66.0 %
	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	30.0 lb.ft.	180 %	240 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	177.979 lb.ft. ²	0.712 lb.ft. ²	
SOUND PRESSURE LEVEL (No Load 1 M From Motor)	70 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	6307ZC3		
OPPOSITE DRIVE-END BEARING	6307ZC3		
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	165 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		



CC 038A





1 E E E 8 4 1 TEFC

THREE PHASE INDUCTION MOTOR

TYPE

LP,JP

CAST IRON FRAME

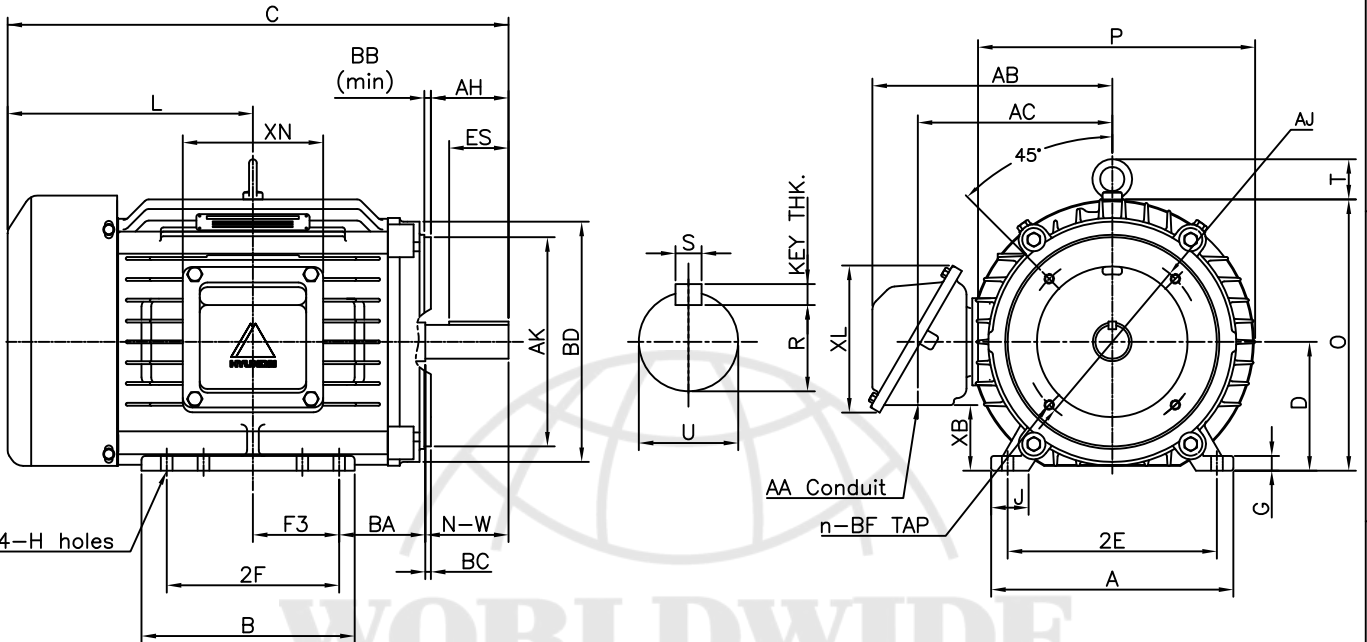
FRAME SIZE

OUTPUT(HP)

POLES

Hz

TIME RATING



DIMENSIONS

FLANGE							MOUNTING								
AJ	AK	BD	BB	BC	BF	n	A	B	2E	2F	-	F3	G	J	H
7.25	8.50	9.00	0.25	+0.25	1/2-13	4	9.84	8.66	8.50	7.00	-	3.50	0.60	1.52	0.41

CONDUIT BOX						OVERALL							APPROX. WGT.(LB)
AA	AB	AC	XB	XL	XN	BA	C	D	L	O	P	T	
1.00	9.82	7.90	2.67	5.97	5.71	3.50	20.36	5.25	9.97	11.02	11.26	1.63	165

SHAFT						KEY THK.	BEARING	
U	N-W	A-H	KEYWAY				DRIVE END	OPP. DRIVE END
			R	ES	S			
1.375	3.38	3.12	1.201	2.41	0.312	0.312	6307ZZC3	6307ZZC3

NOTE

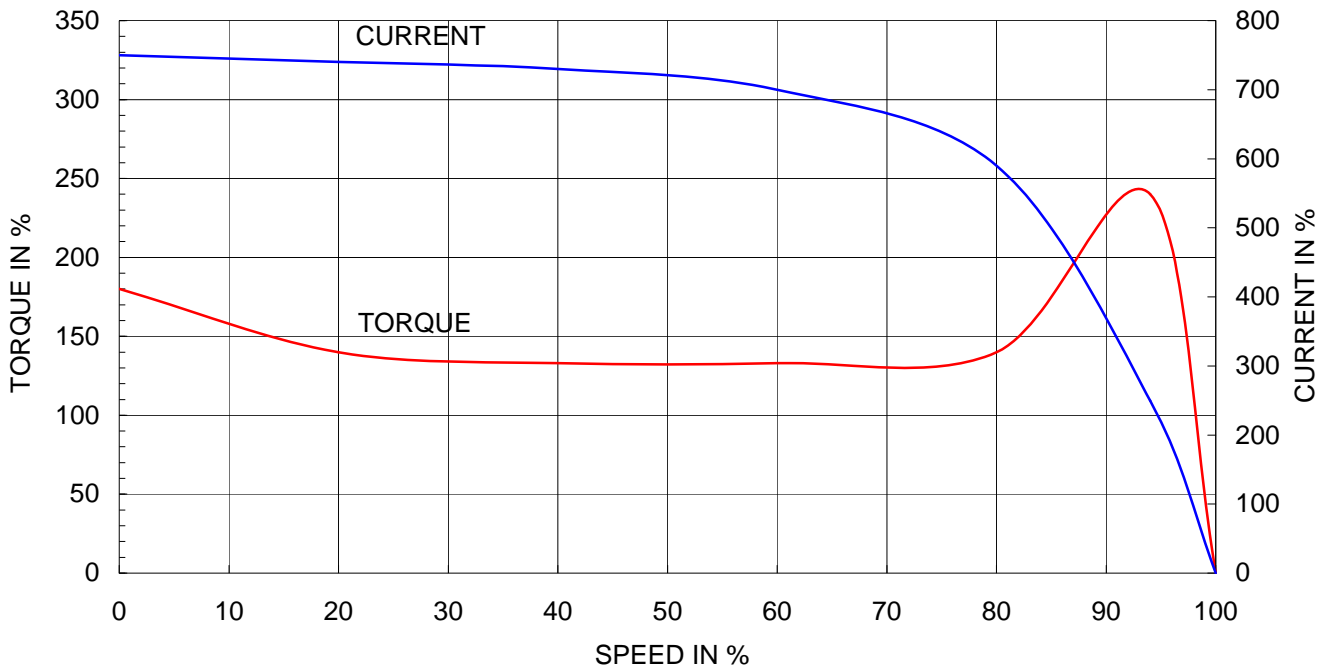
- 1.Dimension "D" tolerance : +0.00inch - 0.03inch
- 2.Dimension "U" tolerance : +0.000inch - 0.0005inch
- 3.Dimension "R" tolerance : +0.000inch - 0.015inch

APPD BY	J.H.KIM	UNIT	INCH	SUBJECT	NEMA 215TC(KIT)	CAD PROJ	FILE	
CHKD BY	N.D.LEE	SCALE	1/8			SCALE-NEMA\A1306AA		
CHKD BY	K.S.LEE	PROJEC'N	3rd Angle	TITLE				OUTLINE
DSND BY	S.W.SEO	DATE	2010.12.20					
				REF. NO	350A8306AA	Sheet No. of		
				DWG NO	350A8306AA	Revision No. 0		

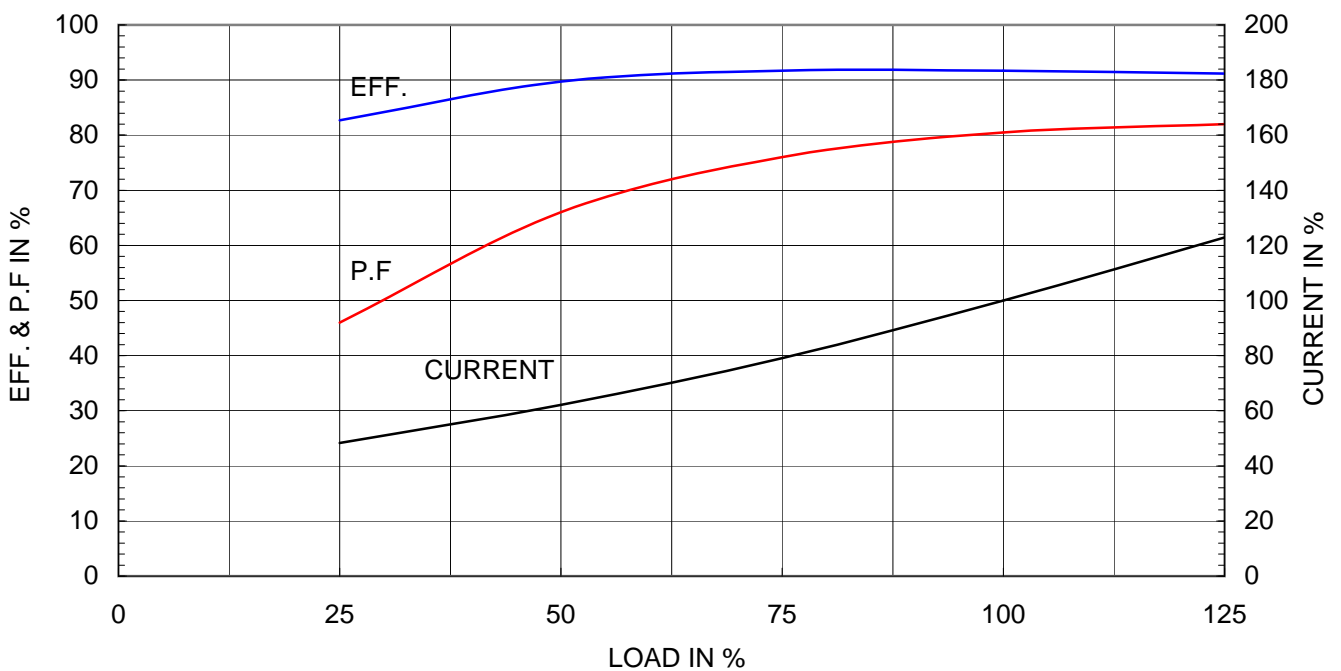
Type	:	PKP
Full Load Torque	:	30.0 lb.ft
Motor moment of Inertia (J)	:	0.712 lb.ft ²
Load moment of Inertia (J)	:	177.979 lb.ft ²

7.5 kW	10 HP	60 Hz	
4 P	Rated Speed :	1760 RPM	
Rated Voltage	575V	460V	230V
Full Load Current	10.2A	12.8A	25.6A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





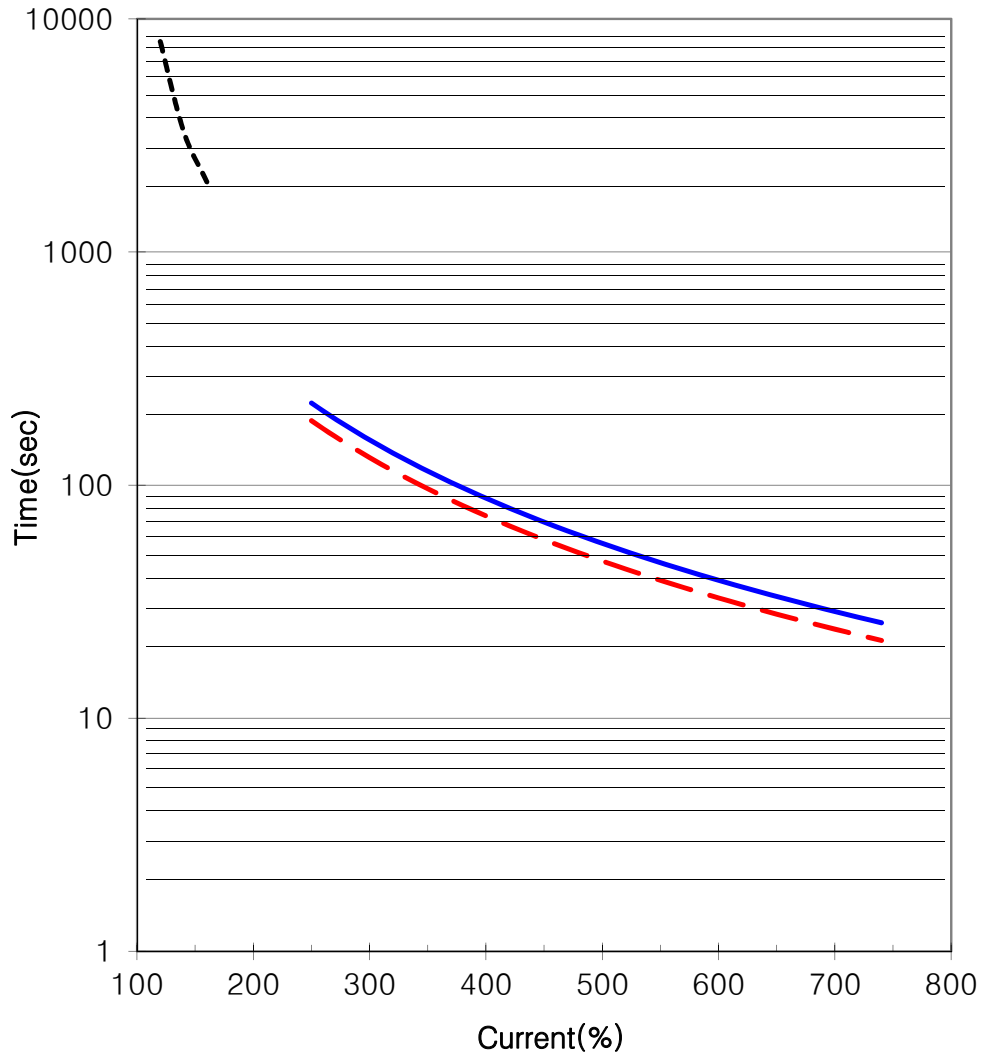
THERMAL LIMIT & TIME CURRENT CURVE

CURVE NO.

T-PKP10-18-215T

Type :	PKP10-18-215T	
FULL LOAD TORQUE :	30.0	lb.ft
J OF LOAD :	-	lb.ft ²
J OF MOTOR :	0.7	lb.ft ²

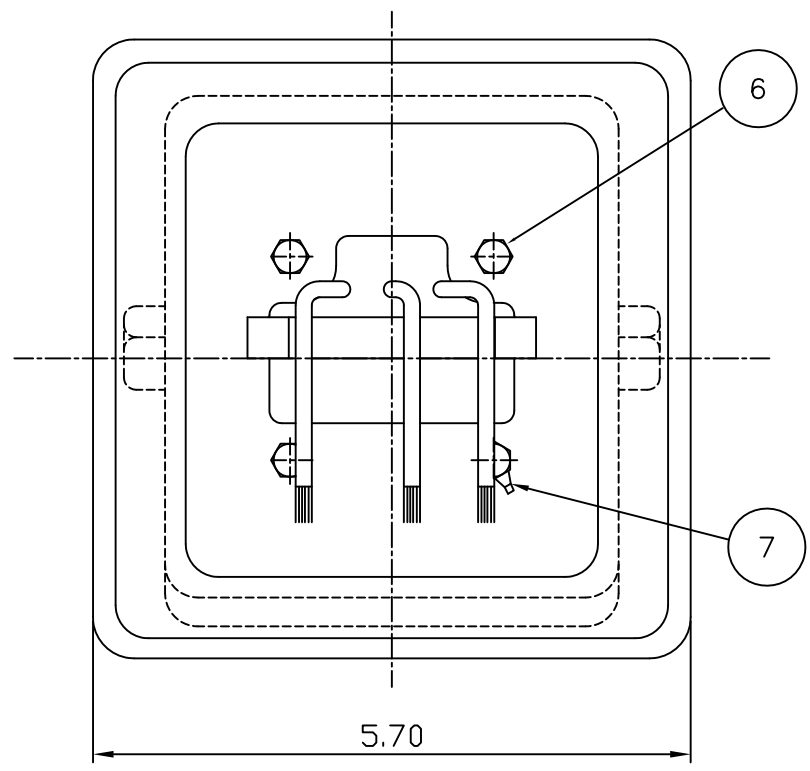
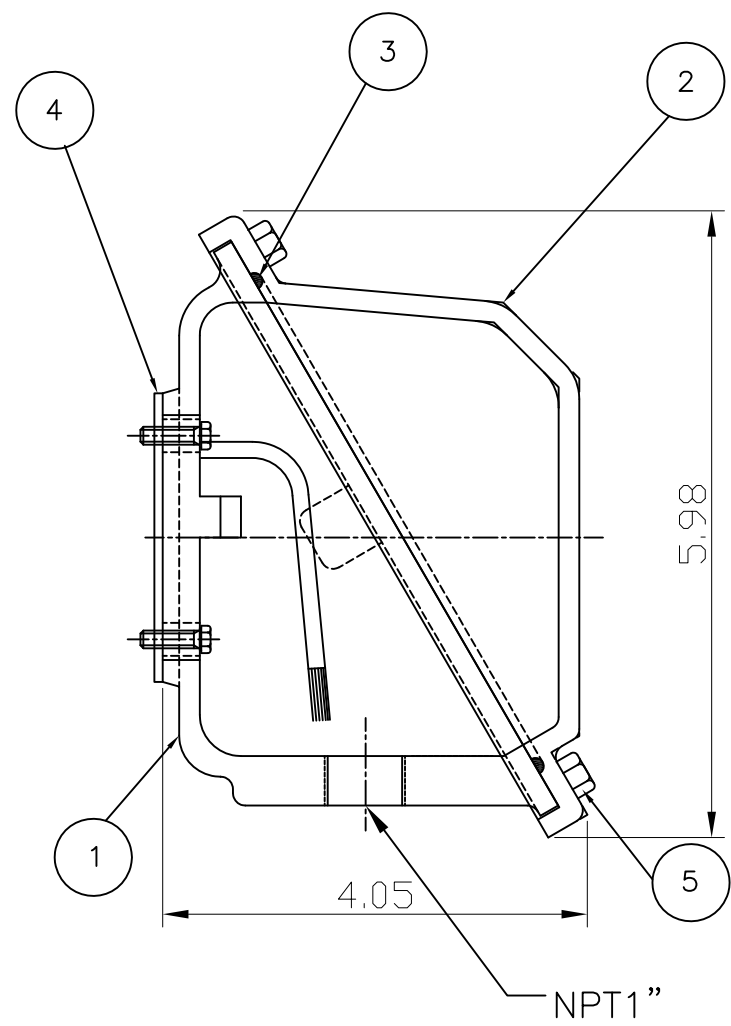
10	HP	4	P	60	Hz
RATED SPEED :		1760 rpm			
VOLTAGE		460 V	575 V		
RATED CURRENT		12.8A	10.2A		



— THERMAL LIMIT CURVE AT COLD CONDITION
- - THERMAL LIMIT CURVE AT HOT CONDITION

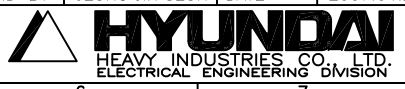
STARTING TIME	SAFE STALL TIME
- at rated voltage starting	21 sec. at Hot condition
- at 80% of rated voltage starting	25 sec. at Cold condition

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PT	DESCRIPTION	MATERIAL	DIMENSION	Q'TY
1	CONDUIT BOX	FC15	---	1
2	CONDUIT BOX COVER	FC15	---	1
3	O-RING / COVER	EPDM	∅4	1
4	BOX GASKET	NBR	---	1
5	COVER+BOX HEX BOLT	S45C	M6 X L20	4
6	BOX+FRAME HEX BOLT	S45C	M6 X L20	4
7	GROUND TERMINAL LUG	CU	---	1

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY		UNIT	INCH	SUBJECT	NEMA 213/215	CAD PROJ \ FILE	
CHKD BY		SCALE	1:1	227B8008CB2			
CHKD BY	---	PROJEC'N	(3rd Angle)	TITLE			
DSND BY	JEONG JIN SEON	DATE	2007.04.28.	TERMINAL BOX ASSEMBLY			
REF. NO		227B8004NA2		Sheet No.		of	
DWG NO		227B8004NA2		Revision No.		0	



REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY