

AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No		Item No. ▲ 1	PKM-592	Rev. No.	[2]
Project Name ▲ 2	250 BPSD GTL PLANT	Project No.	20143767RMM115	Quantity	1 set

GENERAL SPECIFICATION		PERFORMANCE DATA		
Frame Size	355	Rated Output	250 HP	
Type	HNE4 350-80E	Number of Poles	8	
Enclosure(Protection)	TEFC (IP 55)	Rotor Type	Squirrel Cage	
Method of Cooling	IC411	Starting Method*	VFD	
Rated Frequency	60 Hz	Rated Voltage	460 V	
Number of Phases	3	Current	Full Load 310.3 A	
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H	Locked-rotor**	650 %	
Temp. Rise at full load (by resistance method)		Efficiency		
at 1.0 S.F	80 deg.C	50% Load	93.0 %	
Motor Location	<input type="checkbox"/> Indoor <input checked="" type="checkbox"/> Outdoor	75% Load	94.1 %	
Altitude	Less than 1000 meter	100% Load	94.3 %	
Relative Humidity	Less than 100 %	Power Factor(p.u)		
Ambient Temp.	40 deg.C (Max.)	50% Load	0.60	
Duty Type	Continuous (S1)	75% Load	0.72	
Service Factor	1.0	100% Load	0.80	
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/>	Speed at Full Load	892 r.p.m	
Bearing	Type	Anti-friction	Torque	
	DE/N-DE	6324C3 / 6322C3		
	Lubricant	Grease(Gadus S2 V100 2)		
External Thrust	Not applicable		Full Load	203.6 kg·m
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt	Moment of Inertia (J)	Locked-rotor**	90 %
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double	Load	Breakdown**	240 %
Terminal Box	Main	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Cast Iron	Motor	15.7 kg·m ²
	Aux.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sound Pressure Level (No-load & mean value at 1m from motor)	85 dB(A)
Rotation(Viewed from DE)	<input type="checkbox"/> CW <input type="checkbox"/> CCW <input checked="" type="checkbox"/> BI-Direction		Vibration	2.3mm/s(r.m.s)
Application ▲ 1	Reciprocating Compressor		Permissible number of consecutive starts ▲ 1	Cold 3 time
Area classification	Hazardous Area		▲ 1	Hot 2 time
Type of Ex-Protection	Class 1,Division 2,Group D, T3		Paint	Munsell No. 7.5 BG 6/1.5
Applicable Standard ▲ 1	NEMA			

ACCESSORIES
1.Winding Temp. Detector(Pt 100 Ω,Dual) : 1ea/Phase
2.Bearing Temp. Detector(Pt 100 Ω,Single) : 1ea/Bearing
3.Space Heater : 1Phase, 120V, 160W

SPARE PARTS
N/A

SUBMITTAL DRAWING		
Outline Dimension Drawing	\	Motor Weight(Approx.)
B3	HM-092948	2730 kg

REMARK
Multi-level inverter or the inverter with sine filter should be applied to this motor.

Date	DSND	CHKD	CHKD	APPD
2015.02.10	T.H.HAN	-	J.B.KIM	H.C.KIM

Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed Motor, performance data is based on sine wave tests.
 ** The data are based on rated voltage & frequency, and data are expressed as a percentage of full load value.

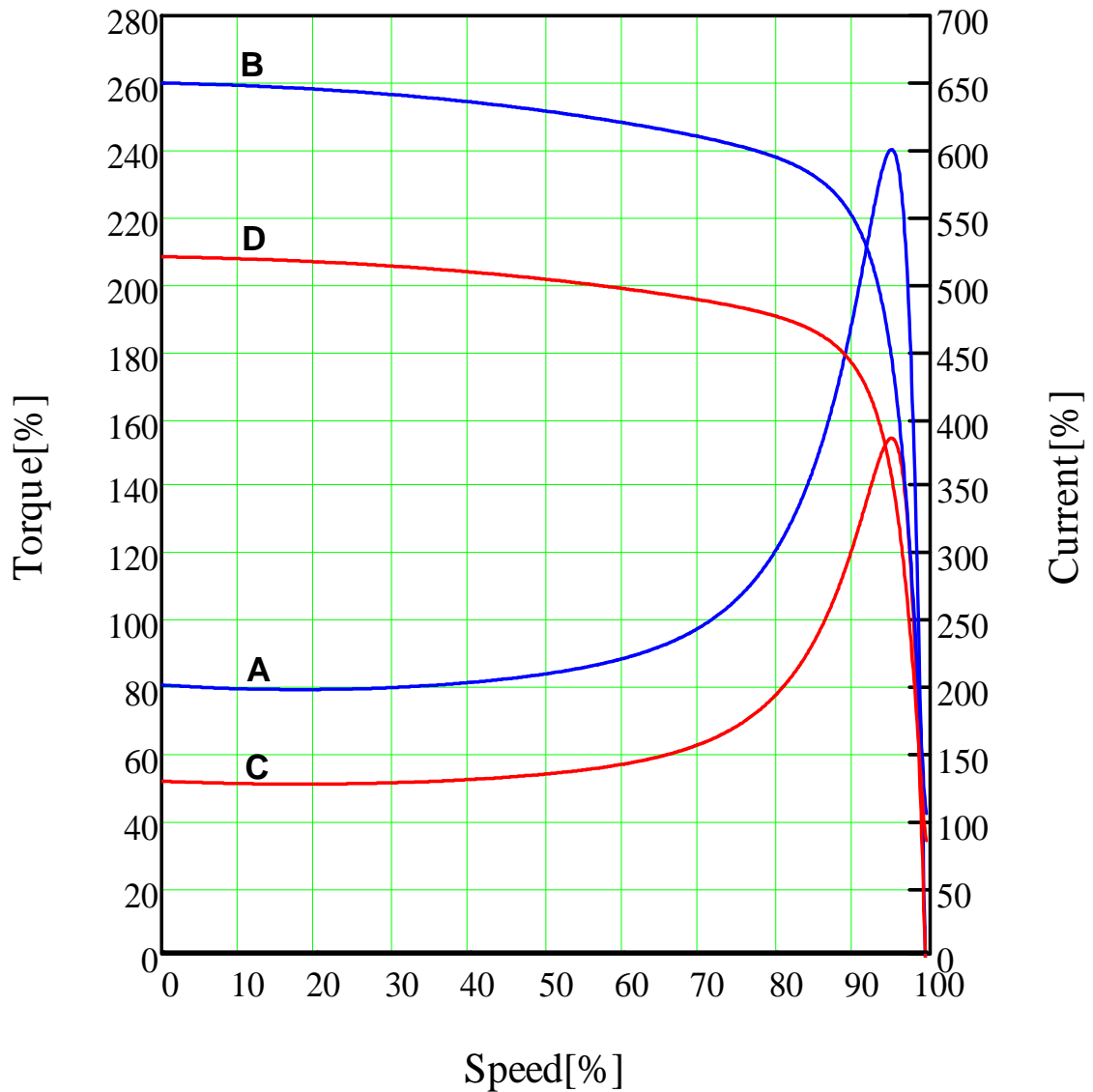


SPEED-TORQUE & CURRENT CURVE

CURVE NO.

STC - 14RMM115

Type : HNE4 350-80E	Motor Specification : 250 HP 8 P 60 Hz
Full Load Torque : 203.6 kg.m	Speed at Full Load : 892 r.p.m
Motor moment of Inertia (J) : 15.7 kg-m²	Rated Voltage : 460 V
Load moment of Inertia (J) : -- kg-m²	Full Load Current : 310.3 A



NOTE

- A: SPEED-TORQUE CURVE AT RATED VOLTAGE
- B: SPEED-CURRENT CURVE AT RATED VOLTAGE
- C: SPEED-TORQUE CURVE AT 80% RATED VOLTAGE
- D: SPEED-CURRENT CURVE AT 80 % RATED VOLTAGE

REMARK.	REV.	CONTENTS	DATE	DSN	CHK	APPD
	0	ORIGINAL ISSUE	2014-10-24	D.S.HEO	D.K.SEO	Y.S.KIM

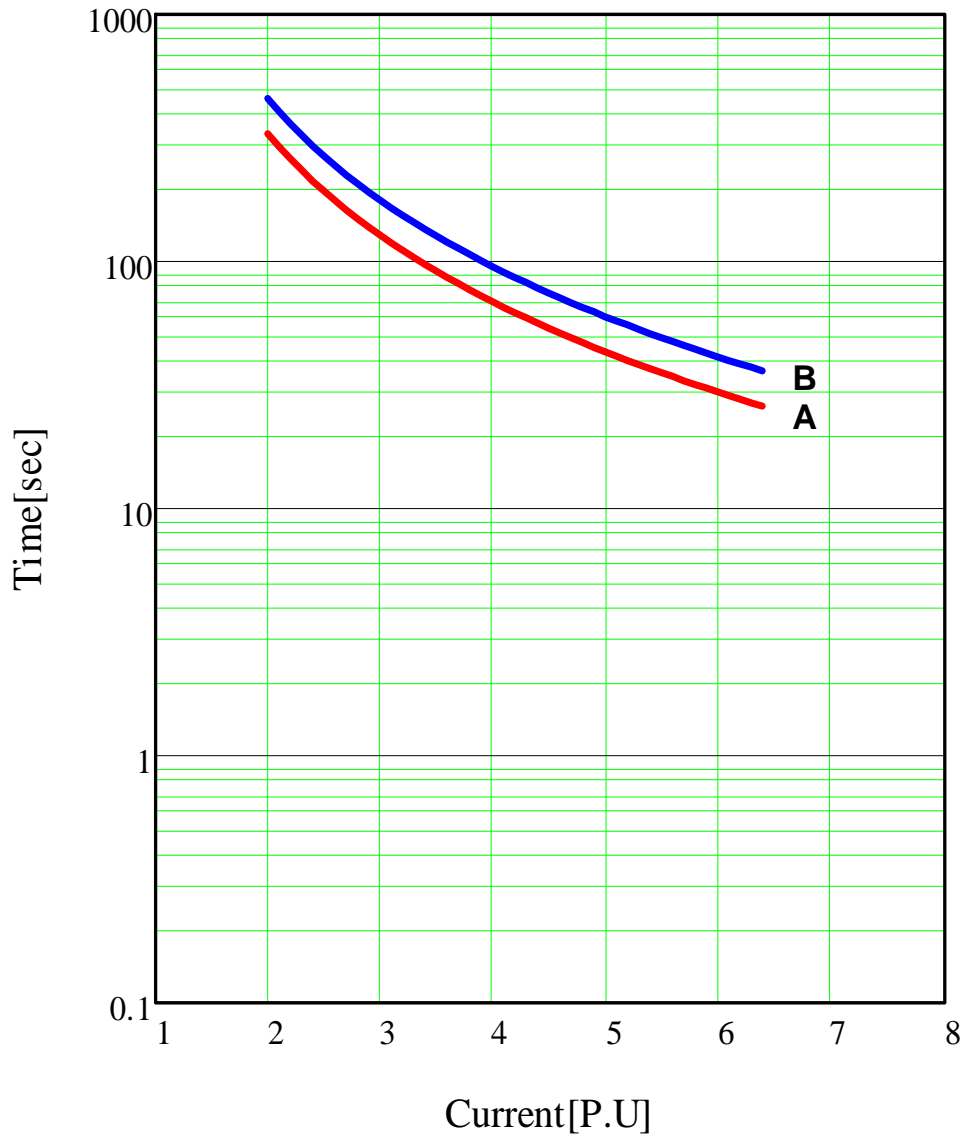


THERMAL LIMIT & TIME CURRENT CURVE

CURVE NO.

TLC - 14RMM115

Type	: HNE4 350-80E	Motor Specification	: 250 HP 8 P 60 Hz
Full Load Torque	: 203.6 kg.m	Speed at Full Load	: 892 r.p.m
Motor moment of Inertia (J)	: 15.7 kg·m²	Rated Voltage	: 460 V
Load moment of Inertia (J)	: -- kg·m²	Full Load Current	: 310.3 A



NOTE A: THERMAL LIMIT CURVE AT HOT CONDITION
 B: THERMAL LIMIT CURVE AT COLD CONDITION

REMARK.	REV.	CONTENTS	DATE	DSN	CHK	APPD
	0	ORIGINAL ISSUE	2014-10-24	D.S.HEO	D.K.SEO	Y.S.KIM