

		DATA SHEET of AC INDUCTION MOTOR				100 HP - 6 P TE	
						DESIGN NO : KS C4202-1996	
Model No.or RFQ No.		Item No.		Rev. No.		[0]	
Project Name		Project No.		Quantity :			
GENERAL SPECIFICATION				PERFORMANCE DATA			
Frame No.		250M		Output		100 HP 75 KW	
Type		TNB		Poles		6 P	
Enclosure(Protection)		Totally Enclosed (IP IP54)		Rotor Type		Squirrel Cage	
Cooling Method		IC411(FC)		Starting Method(*)		☒ D.O.L. ☐ Y-Δ	
Frequency		60 Hz		Rated Voltage		440 V 380 V 220 V	
Phase		3 φ		Current	Rated Load		129.1 A 149.5 A 258.2 A
Insulation Class		☒ F ☐ B ☐ H			Start'g-D.O.L		813.3 A 941.7 A 1,626.6 A
Temp. Rise at full load (by resistance method)				Efficiency			
at 1.0 S.F		105 °C		50% Load		91.5 %	
Location		☐ Indoor ☐ Outdoor		75% Load		92.5 %	
Altitude		Less than 1000 meter		100% Load		92.4 %	
Humidity		Less than 80 %		Power Factor			
Ambient Temp.		40 °C (Max.)		50% Load		76.5 %	
Duty		CONT.(S1)		75% Load		81.0 %	
Service Factor		1.00		100% Load		82.5 %	
Electric Design		NEMA Design B		Speed at Rated Load		1180 RPM / SLIP 1.67 %	
Construction		☐ B3 ☐ B5 ☐ V1 ☐		Torque (D.O.L)			
Bearing	Type	Anti-friction		Rated		61.9 Kg.m 100 %	
	DE/ODE	6316C3 \ 6313C3		Starting		105.2 Kg.m 170 %	
	Lubricant	GREASE(ALVANIA#2)		Break down		123.8 Kg.m 200 %	
External Thrust		Not applicable		Allowable Load GD ² referred to motor shaft			
Coupling Method		☒ Direct ☐ V-Belt		441.000 Kg.m ²			
Shaft Extension		☒ Single ☐ Double		Motor GD ² 8.230 Kg.m ²			
Terminal Box	Main	☐ Steel ☒ Cast Iron		Noise Level (dB(A)) 77 dB(A) at 1m from motor(No-load)			
	Aux.	☒ Yes ☐ No		Vibration(Velocity) 3.8 mm/sec.(peak)			
	Location	☒ Left ☐ Right		Starting Duty Cold 2 times \ Hot 1 time			
(Viewed from Drive End)				Paint	Munsell No.	4.0PB5.4/5.5(VL-451)	
Application				SUBMITTAL DRAWING			
Area Classification		Not applicable		Outline Dimension Drawing \ Motor Weight(Approx.)			
Applicable Standard		KS		☐ B3		TJ5MAP51	525 Kg
Inspection and Performance Test		HHI Stand. Maker Test Report		☐ B5		TJ50BP51	550 Kg
				☐ V1		TJ50PP51	550 Kg
ACCESSORIES(OPTION ITEM)				Main T-Box Ass'y 3M-016882			
SPARE PARTS				REMARK			
Note: Others not mentioned in this specification shall be in accordance with HHI standard. Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.				Date	DSND	CHKD	CHKD APPD
				2004.01.27	KIM R.G.		KIM O.J. KANG K.G.



HYUNDAI

HEAVY INDUSTRIES CO., LTD

PERFORMANCE CURVE

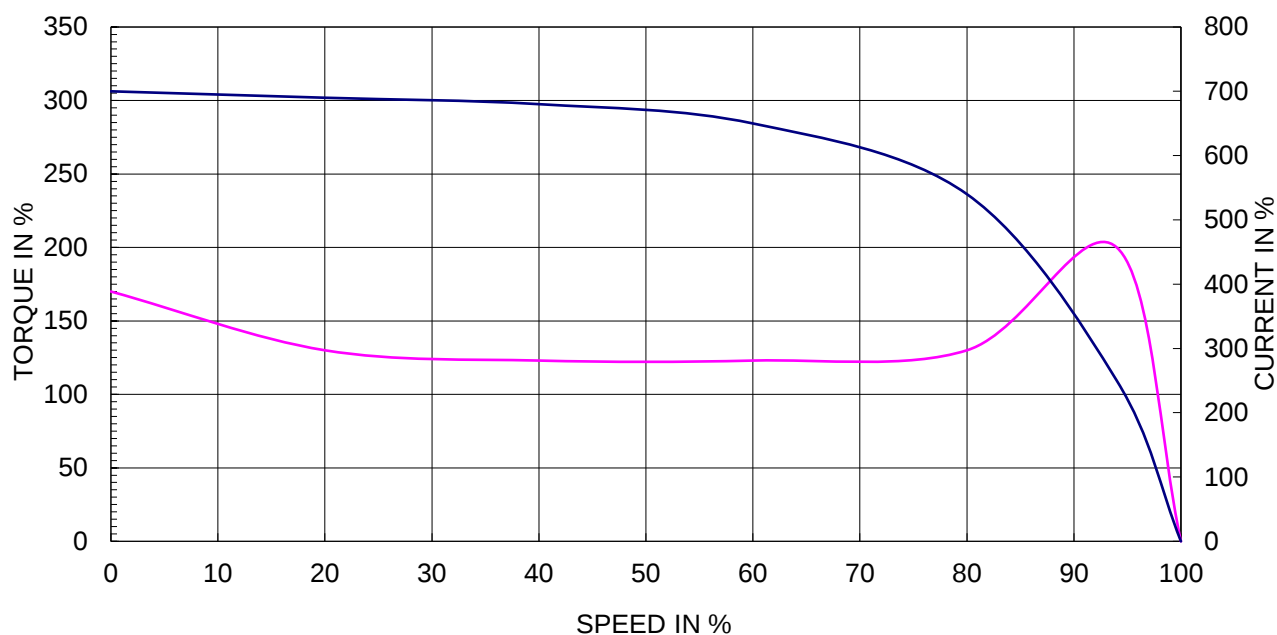
CURVE NO.

P-TNBJ5M06075

TYPE :		
RATED TORQUE :	61.9	Kg.m
GD2 OF MOTOR :	8.2	Kg.m ²
(ALLOWABLE) GD2 OF LOA	441.0	Kg.m ²

75 kW	6 P	60 Hz
RATED SPEED :	1180 RPM	
VOLTAGE	440V	380 V
RATED CURRENT	129.1A	149.5 A
		258.2A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

