

		DATA SHEET of AC INDUCTION MOTOR				120 HP - 2 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		120 HP 90 KW		
Type		TNB		Poles		2 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	141.1 A 163.3 A 282.1 A		
Insulation Class		☒ F ☐ B ☐ H			Start'g-D.O.L	888.7 A 1,029.0 A 1,777.3 A		
Temp. Rise at full load (by resistance method)				Efficiency				
at 1.0 S.F		105 °C		50% Load		91.2 %		
Location		☐ Indoor ☐ Outdoor		75% Load		91.8 %		
Altitude		Less than 1000 meter		100% Load		92.0 %		
Humidity		Less than 80 %		Power Factor				
Ambient Temp.		40 °C (Max.)		50% Load		86.0 %		
Duty		CONT.(S1)		75% Load		90.5 %		
Service Factor		1.00		100% Load		91.0 %		
Electric Design		NEMA Design B		Speed at Rated Load		3565 RPM / SLIP 0.97 %		
Construction		☐ B3 ☐ B5 ☐ V1 ☐		Torque (D.O.L)				
Bearing	Type	Anti-friction		Rated		24.6 Kg.m 100 %		
	DE/ODE	6313C3 \ 6313C3		Starting		36.9 Kg.m 150 %		
	Lubricant	GREASE(ALVANIA#2)		Break down		56.6 Kg.m 230 %		
External Thrust		Not applicable		Allowable Load GD ² referred to motor shaft				
Coupling Method		☒ Direct ☐ V-Belt				35.000 Kg.m ²		
Shaft Extension		☒ Single ☐ Double		Motor GD ²		2.980 Kg.m ²		
Terminal Box	Main	☐ Steel ☒ Cast Iron		Noise Level (dB(A))		93 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		TJ5MAP50 515 Kg		
Inspection and Performance Test				☐ B5		TJ50BC50 545 Kg		
HHI Stand.		Maker Test Report		☐ V1		TJ50PC50 545 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

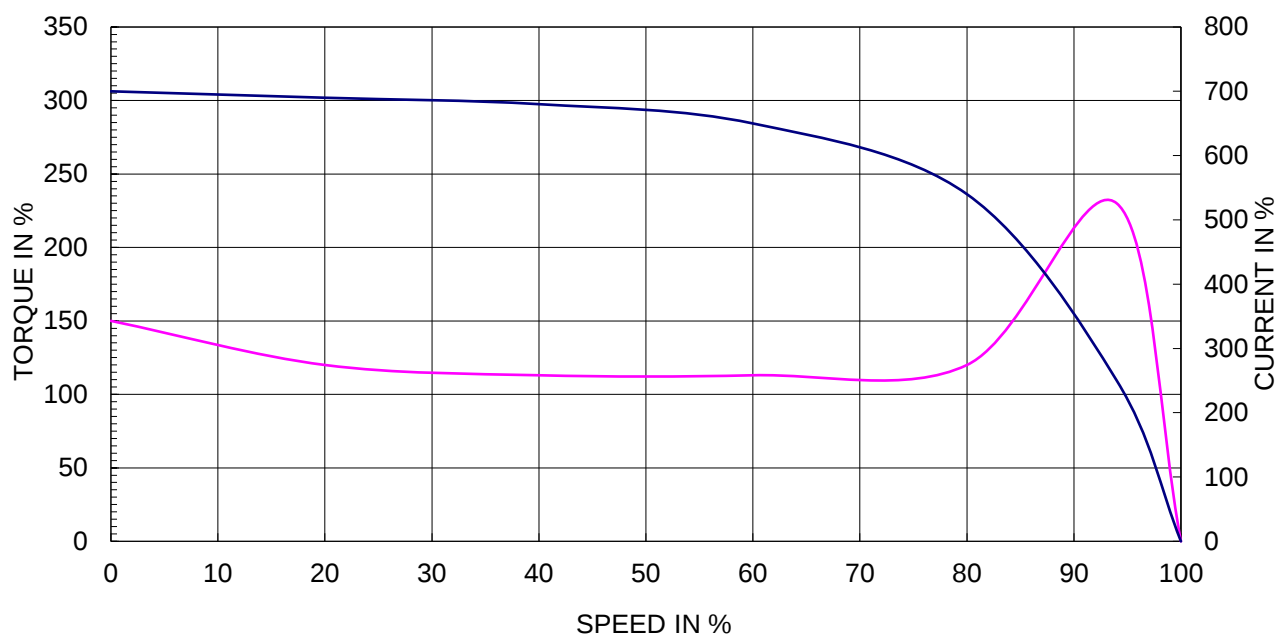
CURVE NO.

P-TNBJ5M02090

TYPE :		
RATED TORQUE :	24.6	Kg.m
GD2 OF MOTOR :	3.0	Kg.m ²
(ALLOWABLE) GD2 OF LOA	35.0	Kg.m ²

90 kW	2 P	60 Hz
RATED SPEED :	3565 RPM	
VOLTAGE	440V	380 V
RATED CURRENT	141.1A	163.3 A
		282.1A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

