

AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. N	lo. [0]		
Project Name			Project			Quantity		sets
(GENERAL SI	PECIFICATION		PERFORM		MANCE DATA		
Frame Size	e	250M		Rated Ou	tput	90	kW	120 HP
Type		HS-90/4		Number o	of Poles		4	
Enclosure(Protection)		Totally Enclosed (IP55))	Rotor Typ	oe .	Squirrel Cag	;e	
Method of Cooling		IC411(FC)		Starting N	/lethod*			
Rated Frequency		60 Hz		Rated Vo	ltage			220 V
Number of	f Phases	3		Current	Full Load			288.9 A
Insulation	Class	■ F □ B □ H			Locked-rotor**			670 %
Temp. Rise	e at full load (by resistance method)		Efficiency	/	1	1	1
at	1.0 S.F	80 deg. C		_	50% Load	94.2	%	
Motor Location		■ Indoor □ Outdoor			75% Load	94.6	%	
Altitude		Less than 1000 meter			100% Load	94.5	%	
Relative H	lumidity	Less than 80 %		Power Fa	ctor(p.u)			
Ambient T	emp.	40 deg. C (Ma	ax.)		50% Load	0.830)	
		Continuous (S1)	,		75% Load	0.860)	
		1.15			100% Load	0.865		
			B3/B5	Speed at I			r.p.m	
1/10 timening	Type	Anti-Friction	20,20	Torque			·r	
Bearing	DE/N-DE	6316C3 / 6313C3		101400	Full Load	49.1	kg⋅m	
Duty Type Service Fact Mounting Bearing I External The Coupling M Shaft Extens Terminal Box A	Lubricant	Grease(Gadus S2 V 100 2)			Locked-rotor**	150		
External T		Not applicable			Breakdown**	230		
		Direct V-Belt		Moment of	of Inertia (J)	230	70	
		Single Double		Wioment	Load(Max.)	63.525	ko .m²	
	Main	☐ Steel ☐ Cast Iron	n		Motor		kg m²	
1	Aux.	Yes No	11	Sound Pro	essure Level (No			from motor)
DOX	Location	Refer to Outline Drawing		Sound 1 I	essure Level (140		dB(A)	i iioiii iiiotoi)
		Refer to Outline Drawing		Vibration			mm/sec (r.)	m s)
		Non-Hazardous			le number of		times	111.5)
		Not applicable		consecuti			times	
* 1		KS,IEC,NEMA MG1 Part30(V _I	nook)	Paint	Munsell No.	4.0PB5.4/5.5		
		KS,IEC,NEWA WOTT at 50(V)	pcak)	1 aiiit		TAL DRAW		
ACCESSC	KILS			Outling D	imension Drawi			ght(Approx.)
				Outilité D	B3	TJ5MAP51	WIOIOI WCI	
					B5	133NIAF31		
					V1			kg
					B3/B5			kg
				Main T D		3M-016882		kg
				Main T-Bo	DX ASS y	3141-010882		
CDADE DADTS			REMARK High Efficiency					
SPARE PARTS								
				*. For use (on PWM VFD 10:	:1V1, 3:1C1@	1.08.F&F Tei	mp. rise
			Date	DSND	CHKD	CHKD	APPD	
				2010-05-2	28 R.G. KIM	O.J. KIM	J.H. KIM	K.J. KANG
Note: Others not mentioned in this data sheet shall be in accordance with maker stands				3				

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.

^{**} Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.



PERFORMANCE CURVE

CURVE NO.

P-HS-90/4

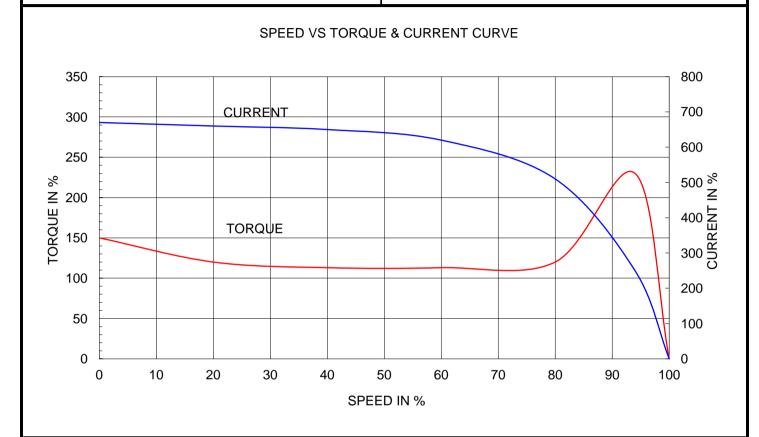
Type : HS

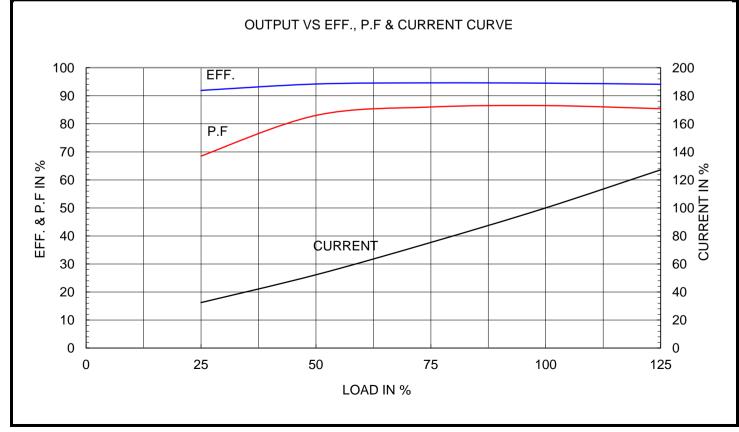
Full Load Torque : 49.1 Kg.m

Motor moment of Inertia (J) : 1.940 Kg.m²

Load moment of Inertia (J) : 63.525 Kg.m²

90 kW	4	Р	60 Hz		
Speed at Full Load:			1785	RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	144.5A	167.3A	288.9A		







본 도면은 현대중공업(주) 재산이므로 허가없이 복사할 수 없음 (취급유의)

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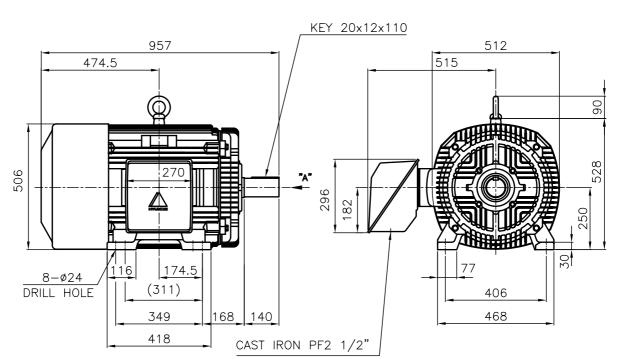
TYPE CAST IRON FRAME

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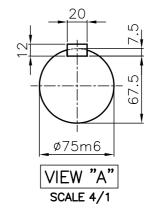
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NOTE

1.TOLERANCE :

CENTER HEIGHT	250 _{-0.5}
BASE HILE	ø24 ^{+0.43}
SHAFT DIAMETER	ø75 +0.030 +0.011
KEYWAY WIDTH	20 -0.022 -0.074
KEYWAY DEPTH	7.5 ^{+0.2} 0
KEY WIDTH	$20 \begin{array}{c} 0 \\ -0.052 \end{array}$
KEY HEIGHT	12 _{-0.110}



l									TEFC :	STANDARD	
l	APPD BY	KANG K.J.	UNIT	ММ		SUBJECT	KS Fr	.250M TEFC	CAD PRO	· · · · · · · · · · · · · · · · · · ·]
l	CHKD BY	KIM O.J.	J. SCALE				1.200111 121 0		MMSTDMT	R/TJ5MAP51	┨
ļ	CHKD BY	LEE N.D.	PROJEC'N 3rd Angle OUTLINE					A			
	DSND BY	DSND BY KIM RYANG GYU DATE			:3		THREE-	MOTOR			
l	/ MYUNLA			REF. NO	L2-Series Sheet		Sheet No	o. of			
				DWG NO	TJ5MAP51 Revision N		No. 0				
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