



No.:

Date: 27-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Catalog Number : 05018ST3QIE326TC-W22

List Price : \$5,458

Notes:

Performed by:

Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Frame : 326T
Output : 50 HP
Frequency : 60 Hz
Poles : 4
Full load speed : 1775
Slip : 1.39 %
Voltage : 460 V
Rated current : 59.2 A
Locked rotor current : 367 A
Locked rotor current (I_L/I_n) : 6.2
No-load current : 25.0 A
Full load torque : 146 lb.ft
Locked rotor torque : 230 %
Breakdown torque : 270 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 15 s (hot)
Service factor : 1.25
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 536 lb
Moment of inertia : 9.1624 sq.ft.lb
Noise level : 66 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6312 C3	6212 C3	100%	0.83	94.5
Regreasing interval	20000 h	20000 h	75%	0.77	94.1
Grease amount	21 g	13 g	50%	0.66	93.0

Notes:

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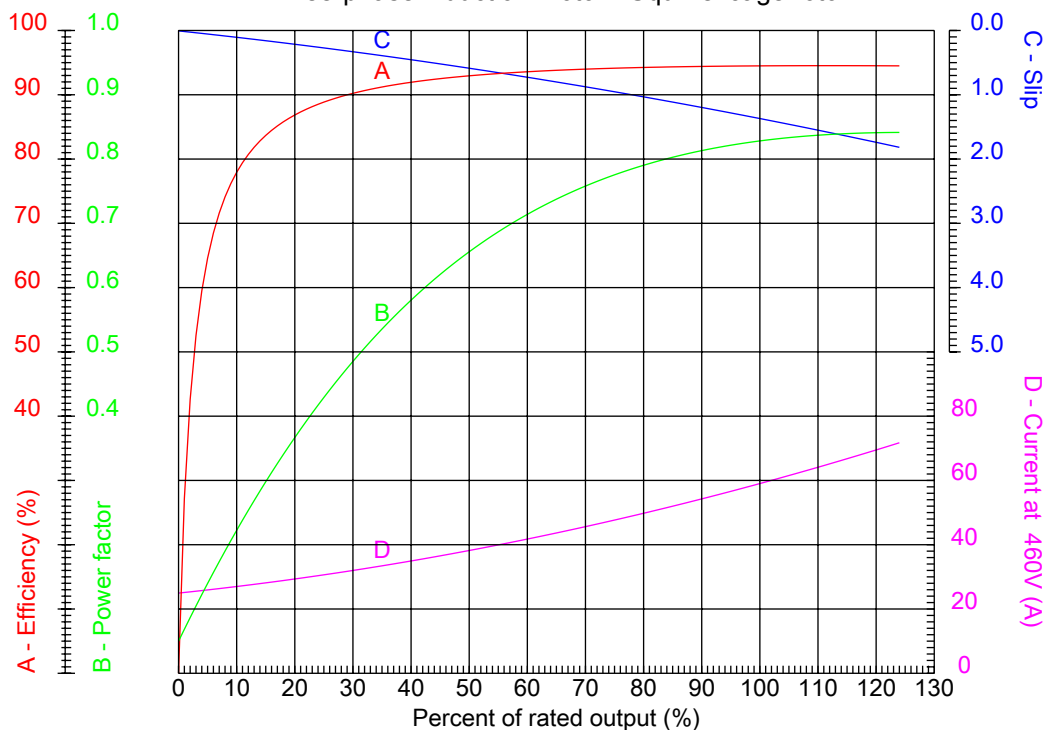
Checked



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PERFORMANCE CURVES RELATED TO RATED OUTPUT Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Frame : 326T	Locked rotor current (I _l /I _n) : 6.2
Output : 50 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.25
Full load speed : 1775	Design : B
Voltage : 460 V	Locked rotor torque : 230 %
Rated current : 59.2 A	Breakdown torque : 270 %
Insulation class : F	

Notes:

Performed by

Checked

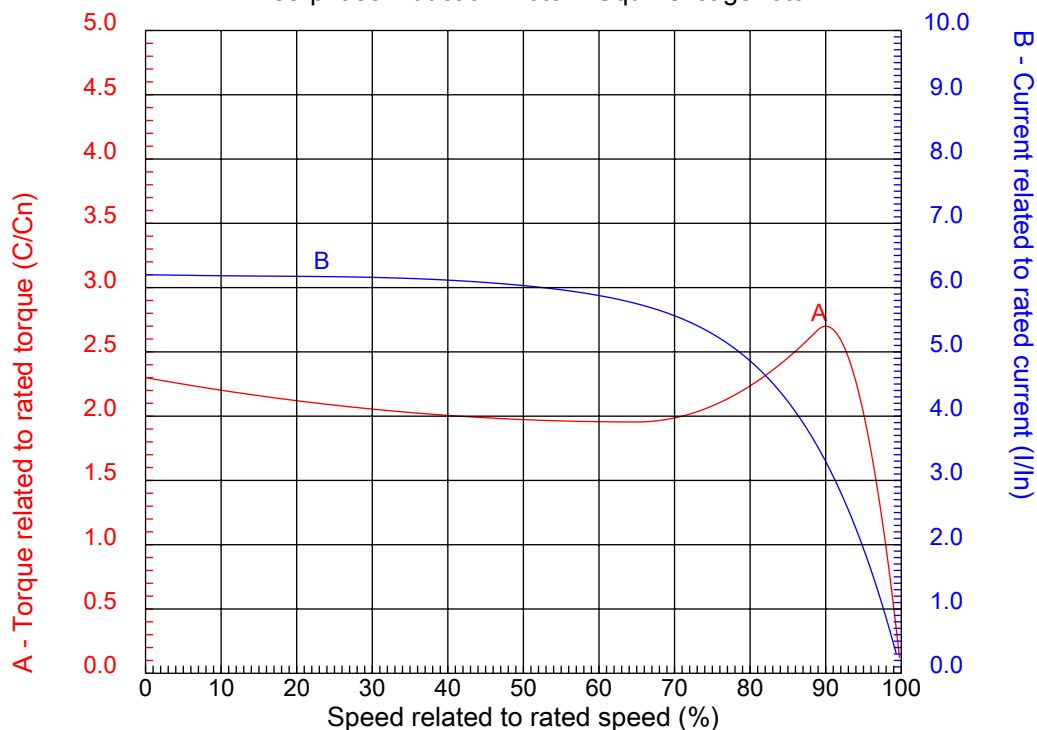


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



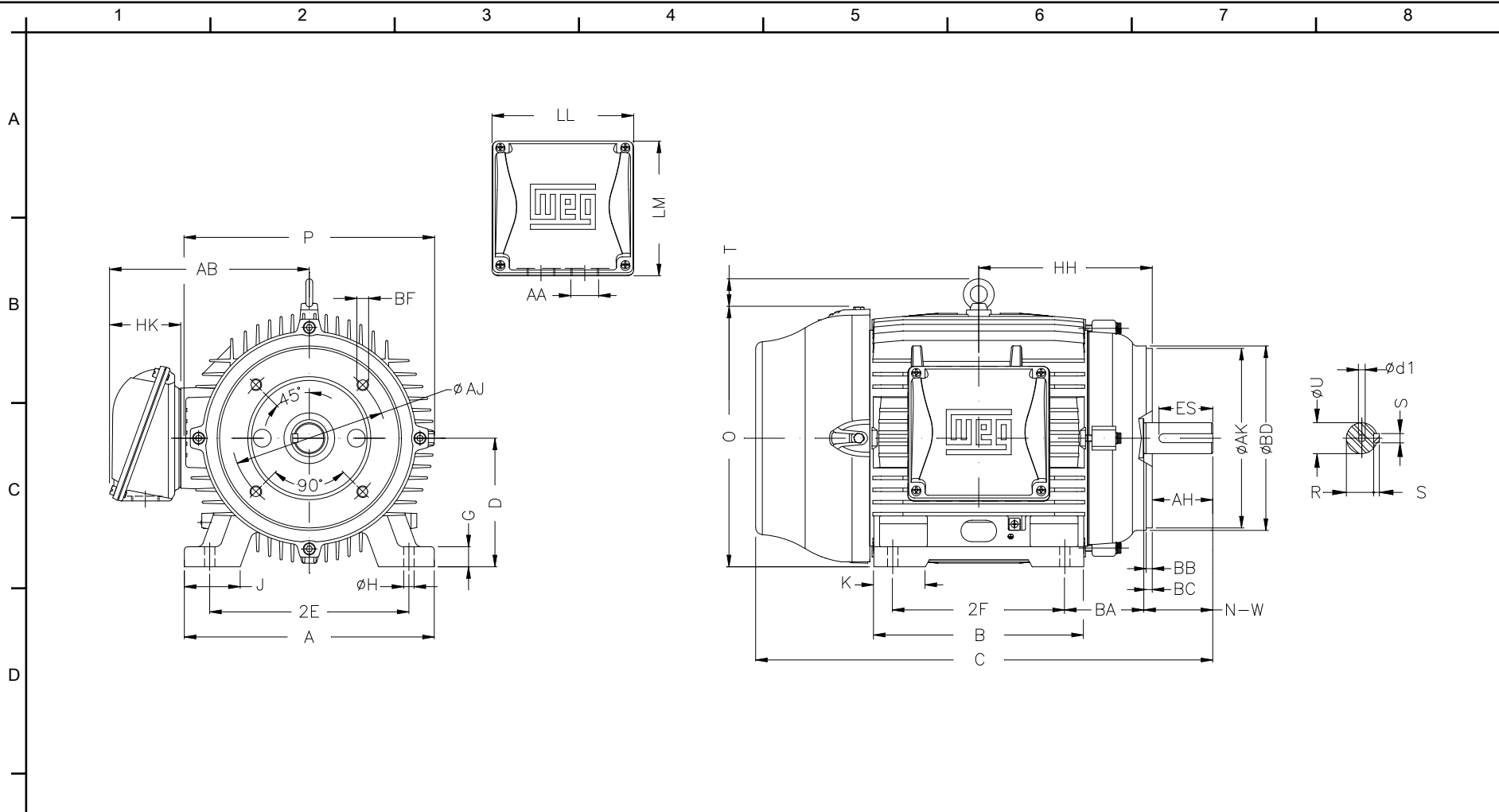
Customer :
Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Frame	: 326T	Locked rotor current (I _l /I _n)	: 6.2
Output	: 50 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1775	Design	: B
Voltage	: 460 V	Locked rotor torque	: 230 %
Rated current	: 59.2 A	Breakdown torque	: 270 %
Insulation class	: F		

Notes:

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E	2E 12.500	J 3.189	A 15.157	P 15.827	AB 12.480
	2F 12.000	K 3.189	B 14.567	BA 5.250	U 2.125
	N-W 5.250	ES 3.937	S 0.500	R 1.844	depth 0.500
	D 8.000	G 1.300	HB 4.811	O 15.953	T 2.441
	HD 18.394	HF 8.708	HH 11.250	HK 4.645	H 0.657
F	C 31.116	LL 8.976	LM 8.543	AA NPT 2"	d1 A 4
	d2 A 4	Flange FC-279	AJ 11.000	AK 12.500	BD 13.58
	BF UNC 5/8"x11	BB 0.250	BC 0.250	AH 5.000	

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Checked:		
Customer:		
Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency		
Three-phase induction motor Frame 326T - IP55	27-DEC-2012	