



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 : 03012ST3QIE326TC-W22

List Price : \$5,584

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 : 30 HP  
Frequency : 60 Hz  
Poles : 6  
Full load speed : 1180  
Slip : 1.67 %  
Voltage : 460 V  
Rated current : 35.8 A  
Locked rotor current : 222 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.2  
No-load current : 16.0 A  
Full load torque : 132 lb.ft  
Locked rotor torque : 230 %  
Breakdown torque : 260 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 21 s (hot)  
Service factor : 1.25  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 553 lb  
Moment of inertia : 13.196 sq.ft.lb  
Noise level : 62 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6312 C3	6212 C3	100%	0.83	93.0
Regreasing interval	20000 h	20000 h	75%	0.77	93.0
Grease amount	21 g	13 g	50%	0.65	91.7

Notes:

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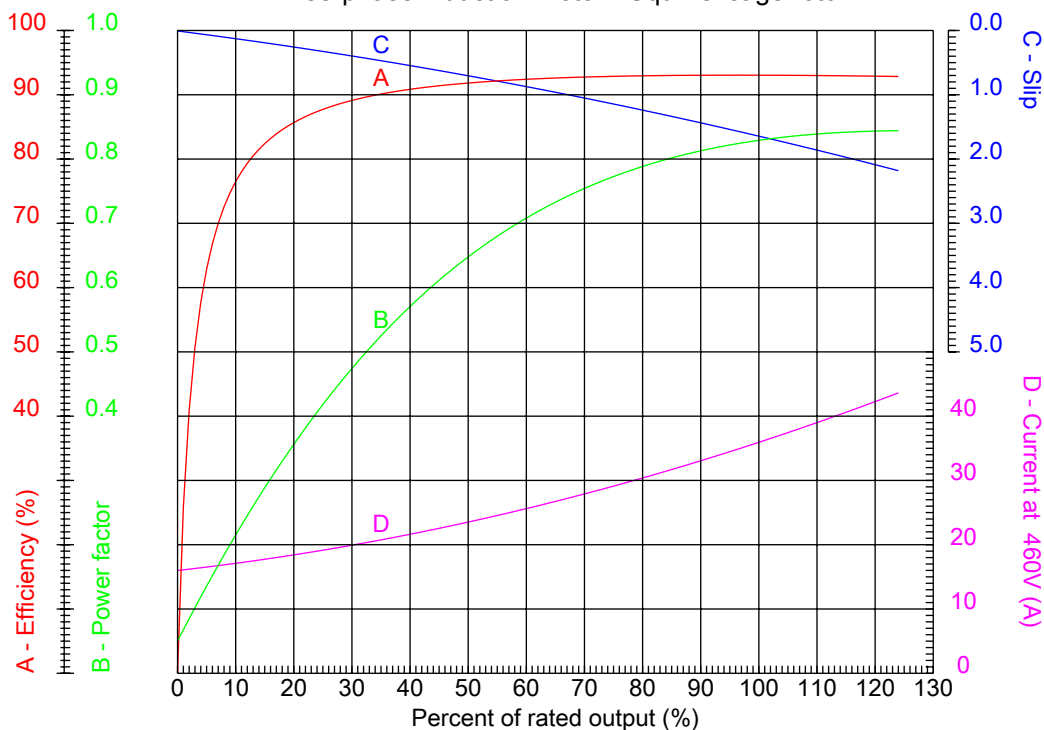
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### PERFORMANCE CURVES RELATED TO RATED OUTPUT Three-phase induction motor - Squirrel cage rotor



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

Frame : 326T	Locked rotor current (I <sub>L</sub> /I <sub>n</sub> ) : 6.2
Output : 30 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.25
Full load speed : 1180	Design : B
Voltage : 460 V	Locked rotor torque : 230 %
Rated current : 35.8 A	Breakdown torque : 260 %
Insulation class : F	

Notes:

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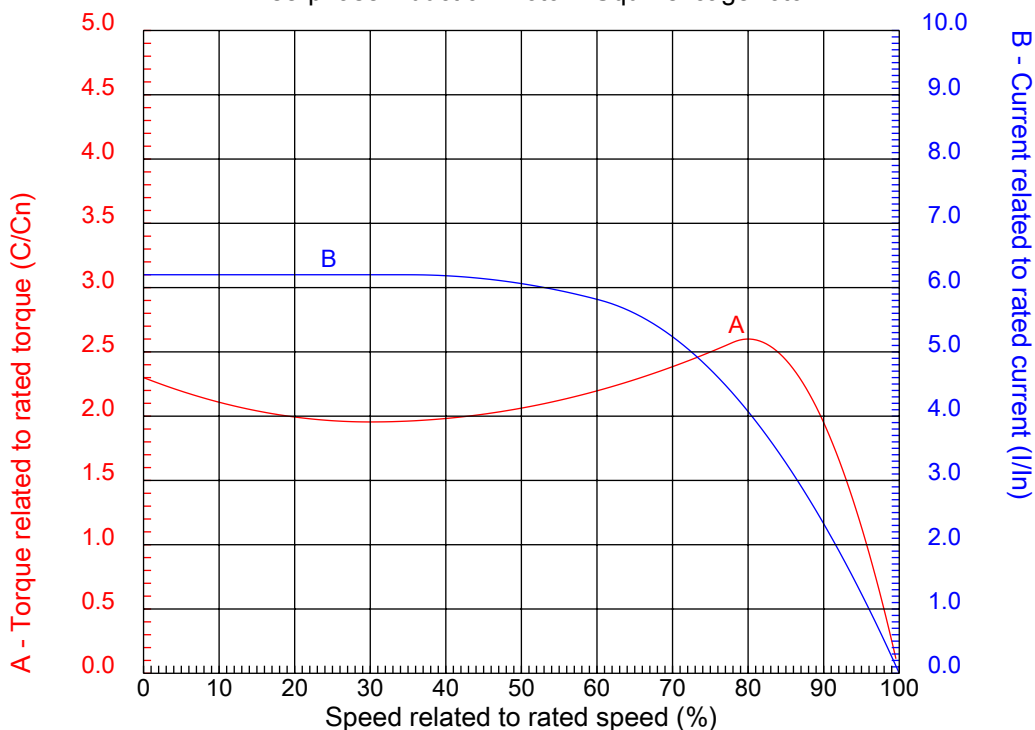


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



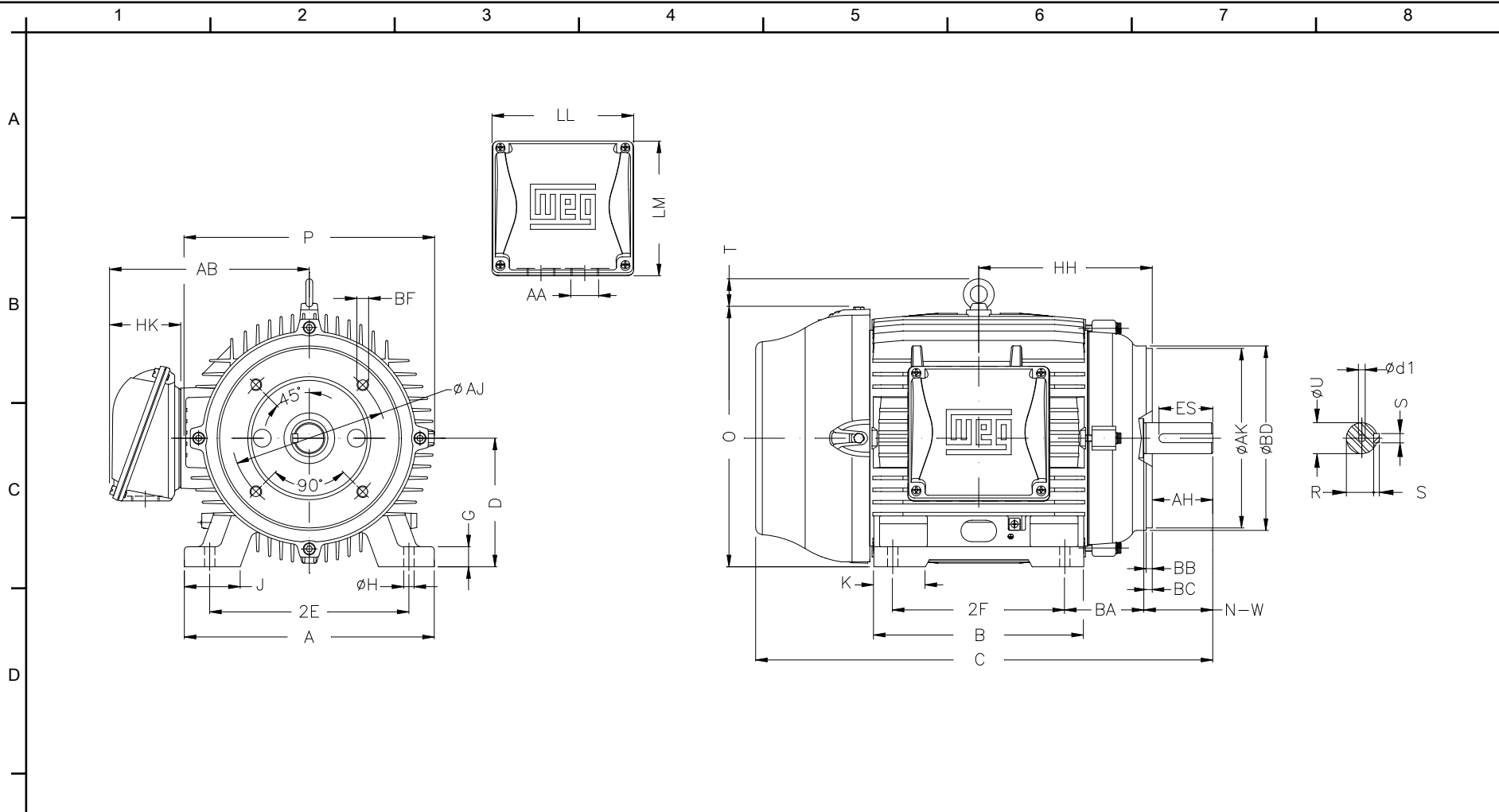
Customer :  
Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Frame	: 326T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.2
Output	: 30 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1180	Design	: B
Voltage	: 460 V	Locked rotor torque	: 230 %
Rated current	: 35.8 A	Breakdown torque	: 260 %
Insulation class	: F		

Notes:

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

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Customer:

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

Three-phase induction motor  
Frame 326T - IP55

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