



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 : 05018ST3QIE326T-W22

List Price : \$5,233

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<sub>L</sub>/I<sub>n</sub>) : 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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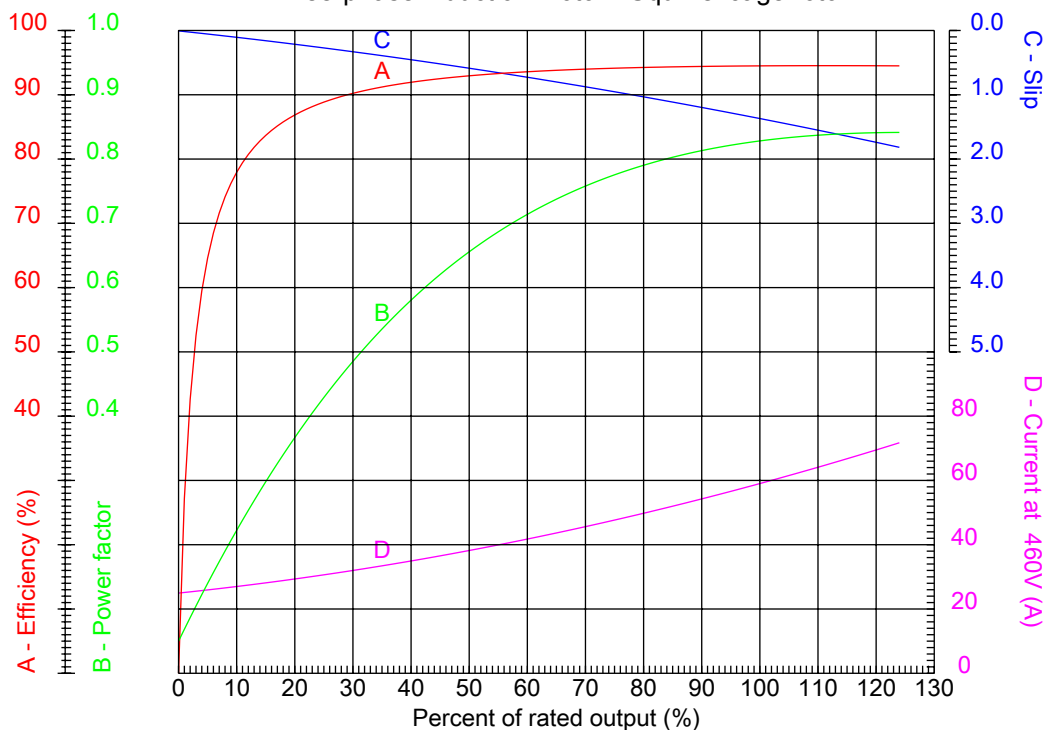
Checked



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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 <sub>l</sub> /I <sub>n</sub> ) : 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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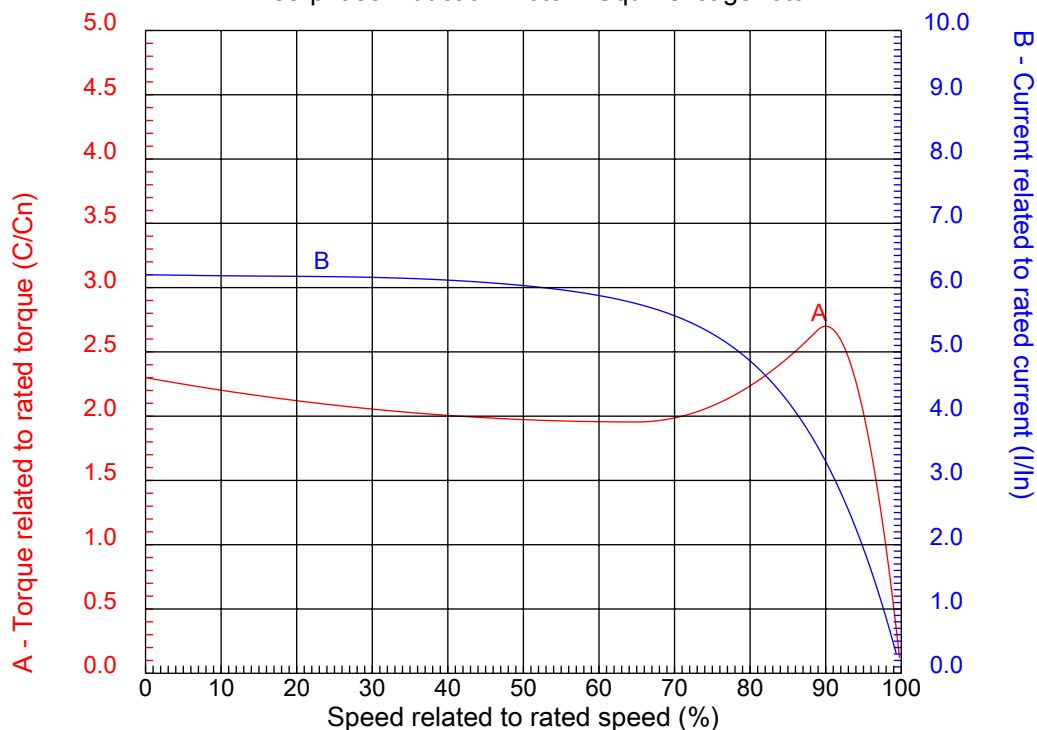


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### CHARACTERISTIC CURVES RELATED TO SPEED

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	: 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

