



No.:

Date: 27-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 NEMA Premium - Roller Bearings

Catalog Number : 07512ET3ERB405T-W22

List Price : \$12,058

Notes:

Performed by:

Checked:



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## DATA SHEET

### Three-phase induction motor - Squirrel cage rotor

Customer :  
Product line : W22 NEMA Premium - Roller Bearings

Frame : 404/5T  
Output : 75 HP  
Frequency : 60 Hz  
Poles : 6  
Full load speed : 1180  
Slip : 1.67 %  
Voltage : 208-230/460 V  
Rated current : 188-170/84.9 A  
Locked rotor current : 1090/543 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.4  
No-load current : 60.0/30.0 A  
Full load torque : 329 lb.ft  
Locked rotor torque : 200 %  
Breakdown torque : 230 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 17 s (hot)  
Service factor : 1.25  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 1089 lb  
Moment of inertia : 40.209 sq.ft.lb  
Noise level : 68 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	NU-316 C3	6314 C3	100%	0.86	94.5
Regreasing interval	12000 h	17000 h	75%	0.83	94.5
Grease amount	34 g	27 g	50%	0.74	94.1

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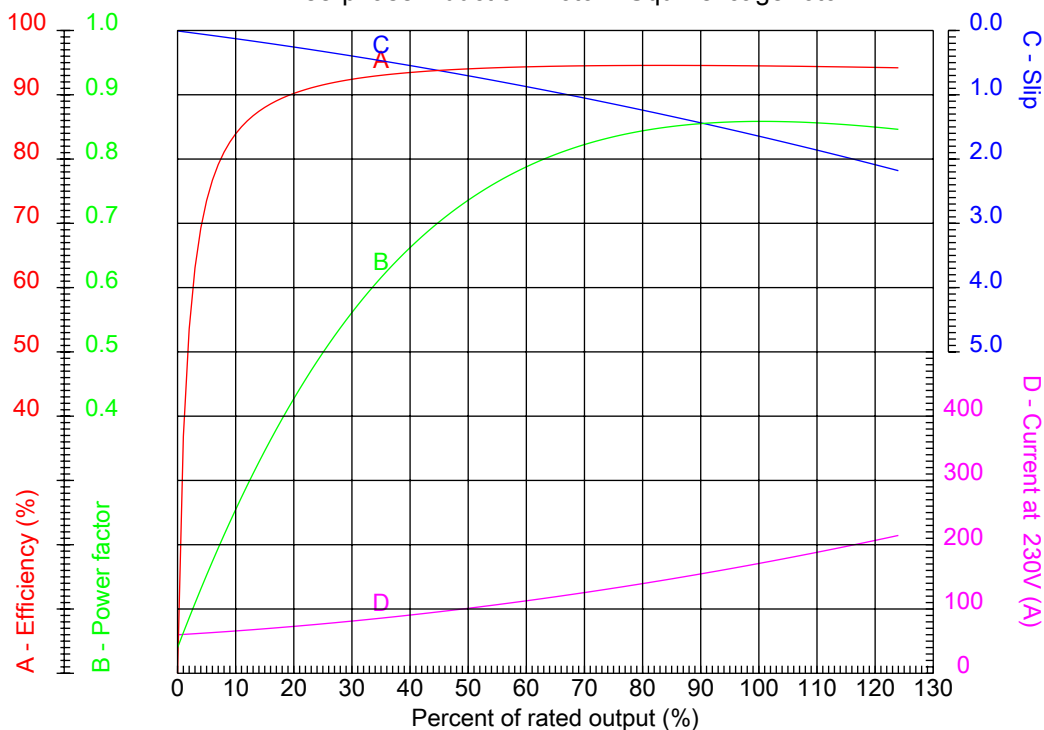


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### PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : W22 NEMA Premium - Roller Bearings

Frame	: 404/5T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.4
Output	: 75 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1180	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 200 %
Rated current	: 188-170/84.9 A	Breakdown torque	: 230 %
Insulation class	: F		

Notes:

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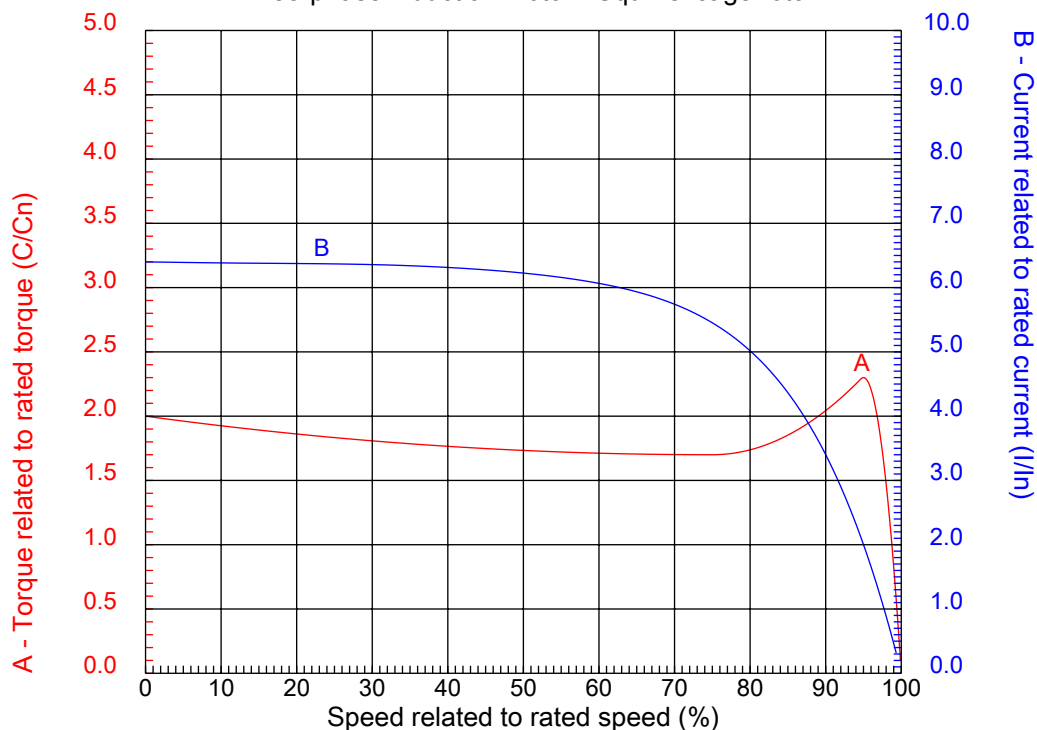


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : W22 NEMA Premium - Roller Bearings

Frame	: 404/5T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.4
Output	: 75 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1180	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 200 %
Rated current	: 188-170/84.9 A	Breakdown torque	: 230 %
Insulation class	: F		

Notes:

Performed by

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