



No.:

Date: 17-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 NEMA Premium - Roller Bearings

Catalog Number : 25012ET3GRB449T-W22

List Price : \$35,555

Notes:

Performed by:

Checked:



No.:

Date: 17-DEC-2012

## DATA SHEET

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

Customer :  
Product line : W22 NEMA Premium - Roller Bearings

Frame : 447/9T  
Output : 250 HP  
Frequency : 60 Hz  
Poles : 6  
Full load speed : 1185  
Slip : 1.25 %  
Voltage : 460 V  
Rated current : 292 A  
Locked rotor current : 1750 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.0  
No-load current : 120 A  
Full load torque : 1093 lb.ft  
Locked rotor torque : 240 %  
Breakdown torque : 240 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 12 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 2538 lb  
Moment of inertia : 144.52 sq.ft.lb  
Noise level : ---

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	NU-322 C3	6319 C3	100%	0.83	95.8
Regreasing interval	7000 h	13000 h	75%	0.79	95.4
Grease amount	60 g	45 g	50%	0.68	95.0

Notes:

Performed by

Checked

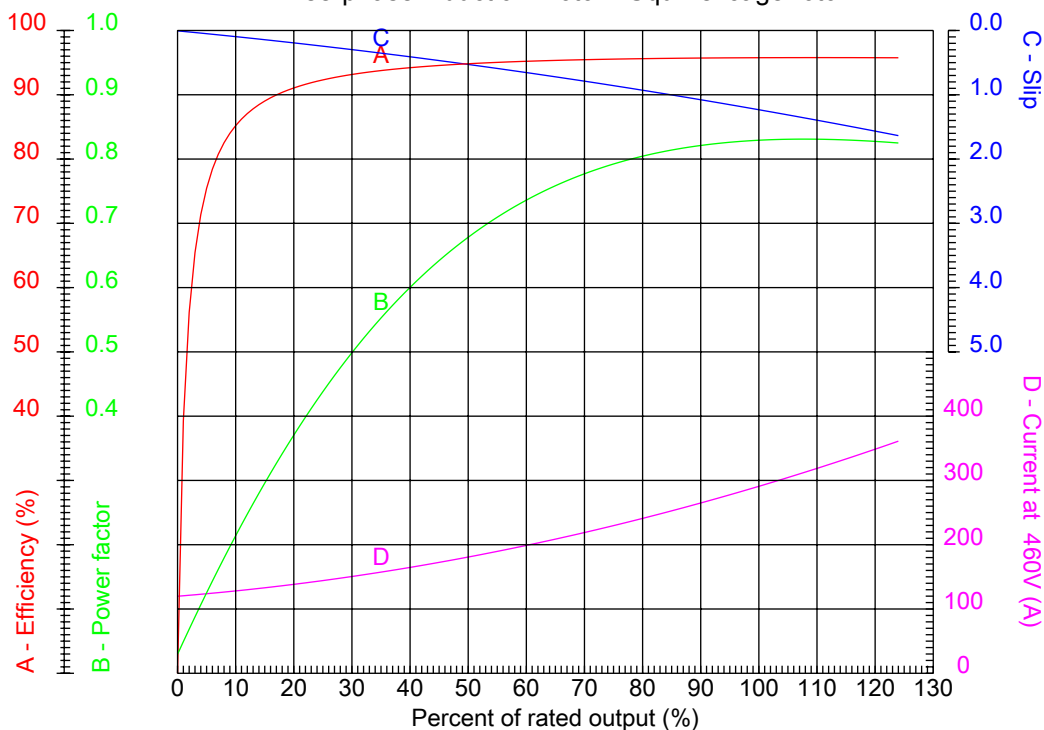


No.:

Date: 17-DEC-2012

### PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : W22 NEMA Premium - Roller Bearings

Frame : 447/9T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) : 6.0
Output : 250 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 1185	Design : B
Voltage : 460 V	Locked rotor torque : 240 %
Rated current : 292 A	Breakdown torque : 240 %
Insulation class : F	

Notes:

Performed by

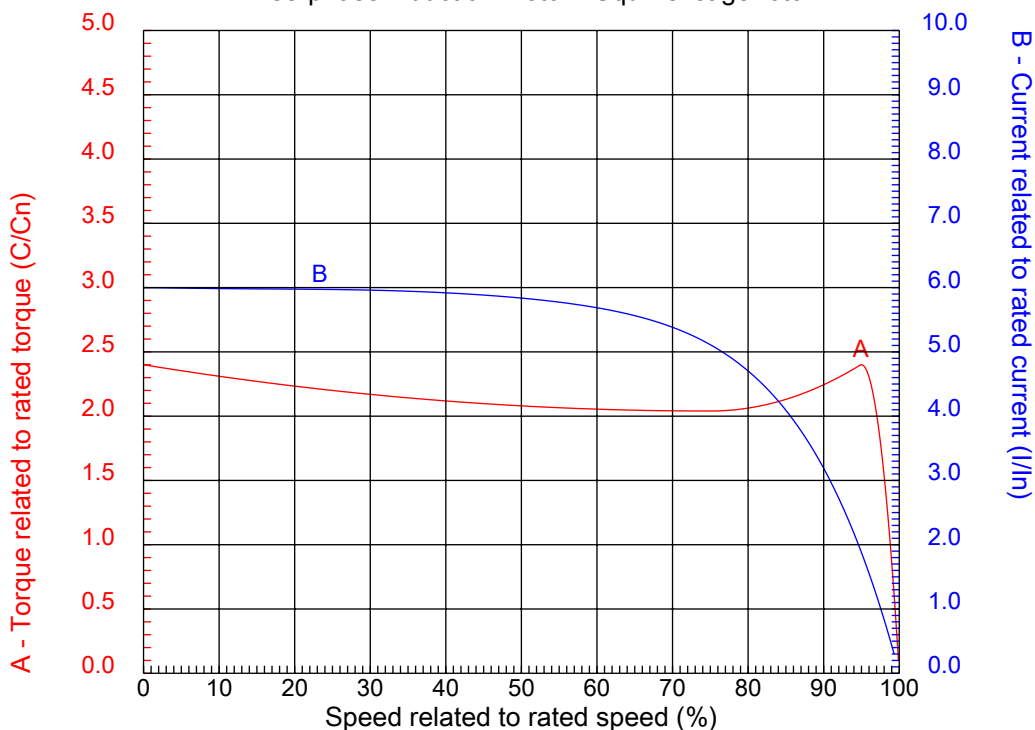
Checked



No.:

Date: 17-DEC-2012

### CHARACTERISTIC CURVES RELATED TO SPEED Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : W22 NEMA Premium - Roller Bearings

Frame	: 447/9T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.0
Output	: 250 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1185	Design	: B
Voltage	: 460 V	Locked rotor torque	: 240 %
Rated current	: 292 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:

Performed by

Checked