



No.:

Date: 17-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 NEMA Premium - Roller Bearings

Catalog Number : 30012ET3GRB449T-W22

List Price : \$38,437

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 : 300 HP
Frequency : 60 Hz
Poles : 6
Full load speed : 1185
Slip : 1.25 %
Voltage : 460 V
Rated current : 347 A
Locked rotor current : 2260 A
Locked rotor current (I_L/I_n) : 6.5
No-load current : 145 A
Full load torque : 1312 lb.ft
Locked rotor torque : 250 %
Breakdown torque : 250 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 9 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 2613 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%	0.78	95.8
Grease amount	60 g	45 g	50%	0.68	95.4

Notes:

Performed by

Checked

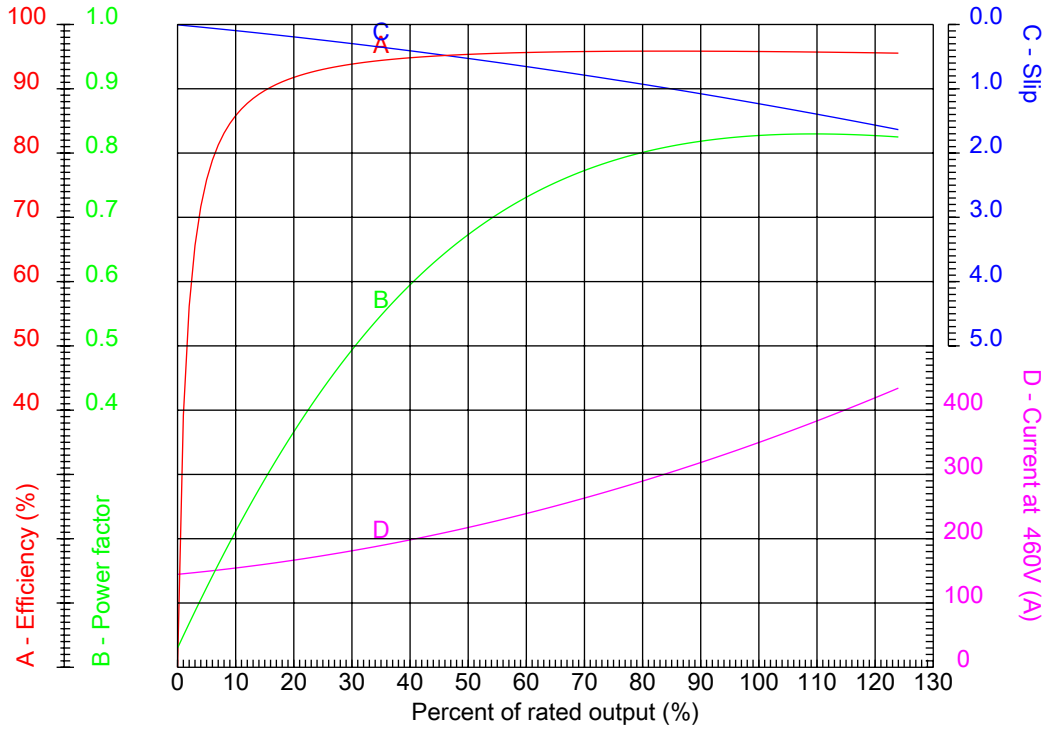


No.:

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 _l /I _n) : 6.5
Output : 300 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 1185	Design : B
Voltage : 460 V	Locked rotor torque : 250 %
Rated current : 347 A	Breakdown torque : 250 %
Insulation class : F	

Notes:

Performed by

Checked

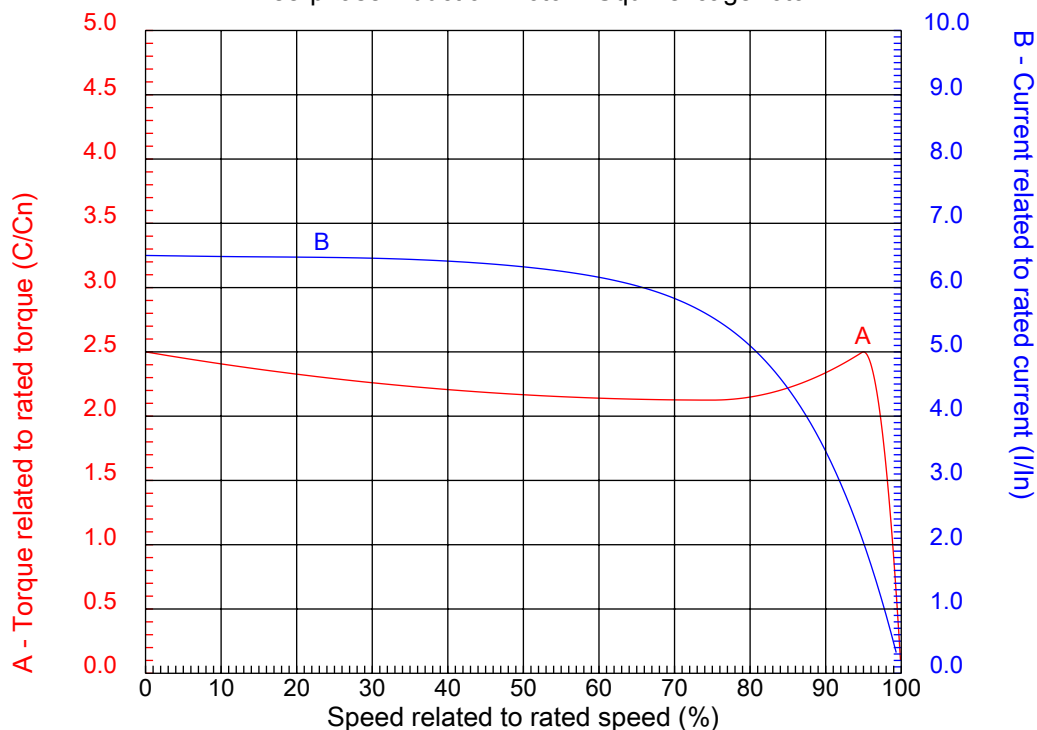


No.:

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 _l /I _n) : 6.5
Output : 300 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 1185	Design : B
Voltage : 460 V	Locked rotor torque : 250 %
Rated current : 347 A	Breakdown torque : 250 %
Insulation class : F	

Notes:

Performed by

Checked