



No.:

Date: 17-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 NEMA Premium - Roller Bearings

Catalog Number : 45018ET3GRB449T-W22

List Price : \$48,010

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 : L447/9T
Output : 450 HP
Frequency : 60 Hz
Poles : 4
Full load speed : 1790
Slip : 0.56 %
Voltage : 460 V
Rated current : 501 A
Locked rotor current : 3460 A
Locked rotor current (I_L/I_n) : 6.9
No-load current : 180 A
Full load torque : 1302 lb.ft
Locked rotor torque : 260 %
Breakdown torque : 250 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 22 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 3396 lb
Moment of inertia : 151.76 sq.ft.lb
Noise level : 79 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	NU-322 C3	6319 C3	100%	0.86	96.2
Regreasing interval	8000 h	17000 h	75%	0.83	96.2
Grease amount	60 g	45 g	50%	0.74	95.4

Notes:

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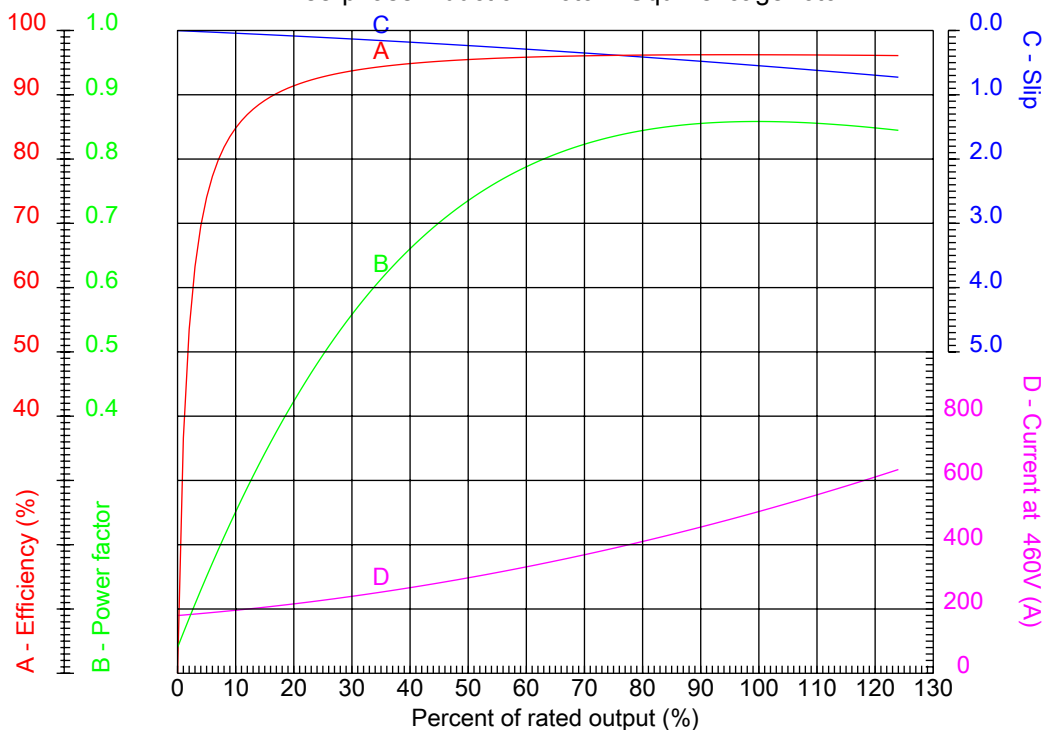


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : W22 NEMA Premium - Roller Bearings

Frame : L447/9T	Locked rotor current (I _l /I _n) : 6.9
Output : 450 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 1790	Design : B
Voltage : 460 V	Locked rotor torque : 260 %
Rated current : 501 A	Breakdown torque : 250 %
Insulation class : F	

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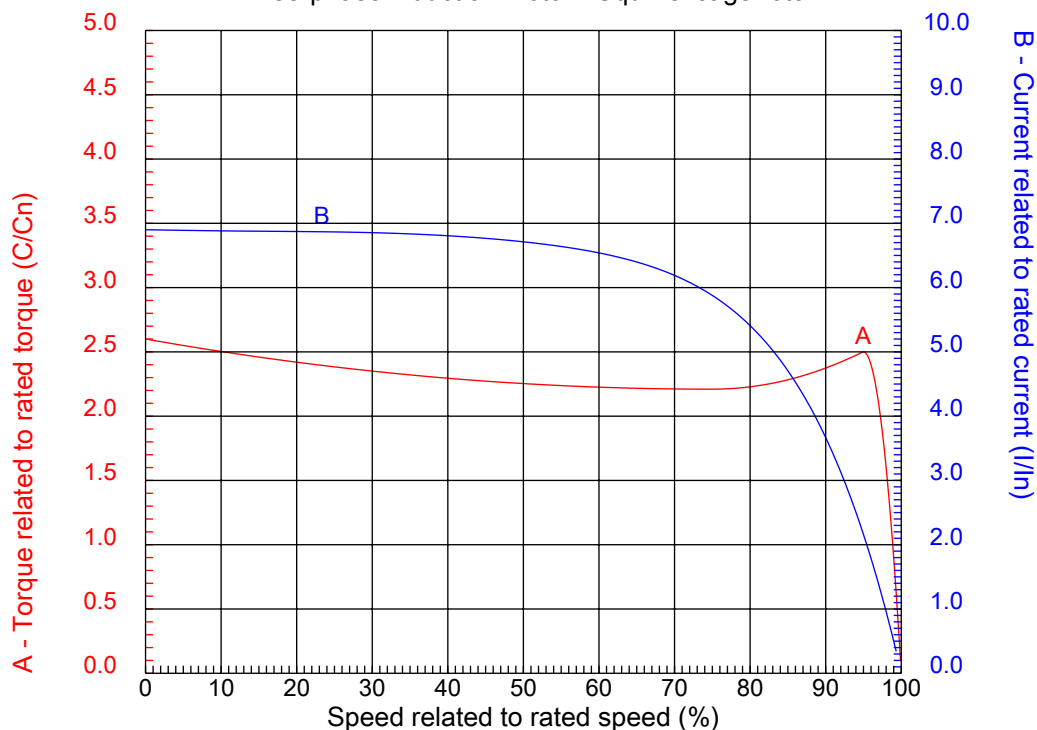


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : W22 NEMA Premium - Roller Bearings

Frame	: L447/9T	Locked rotor current (I _l /I _n)	: 6.9
Output	: 450 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1790	Design	: B
Voltage	: 460 V	Locked rotor torque	: 260 %
Rated current	: 501 A	Breakdown torque	: 250 %
Insulation class	: F		

Notes:

Performed by

Checked