



No.:

Date: 19-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 NEMA Premium - Ball Bearings

Catalog Number : 12518ET3G444TC-W22

List Price : \$16,218

Notes:

Performed by:

Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame : 444/5T
Output : 125 HP
Frequency : 60 Hz
Poles : 4
Full load speed : 1780
Slip : 1.11 %
Voltage : 460 V
Rated current : 139 A
Locked rotor current : 904 A
Locked rotor current (I_L/I_n) : 6.5
No-load current : 49.0 A
Full load torque : 364 lb.ft
Locked rotor torque : 200 %
Breakdown torque : 250 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 27 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 1590 lb
Moment of inertia : 57.163 sq.ft.lb
Noise level : 73 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6319 C3	6316 C3	100%	0.85	95.4
Regreasing interval	8000 h	10000 h	75%	0.82	95.4
Grease amount	45 g	34 g	50%	0.74	95.0

Notes:

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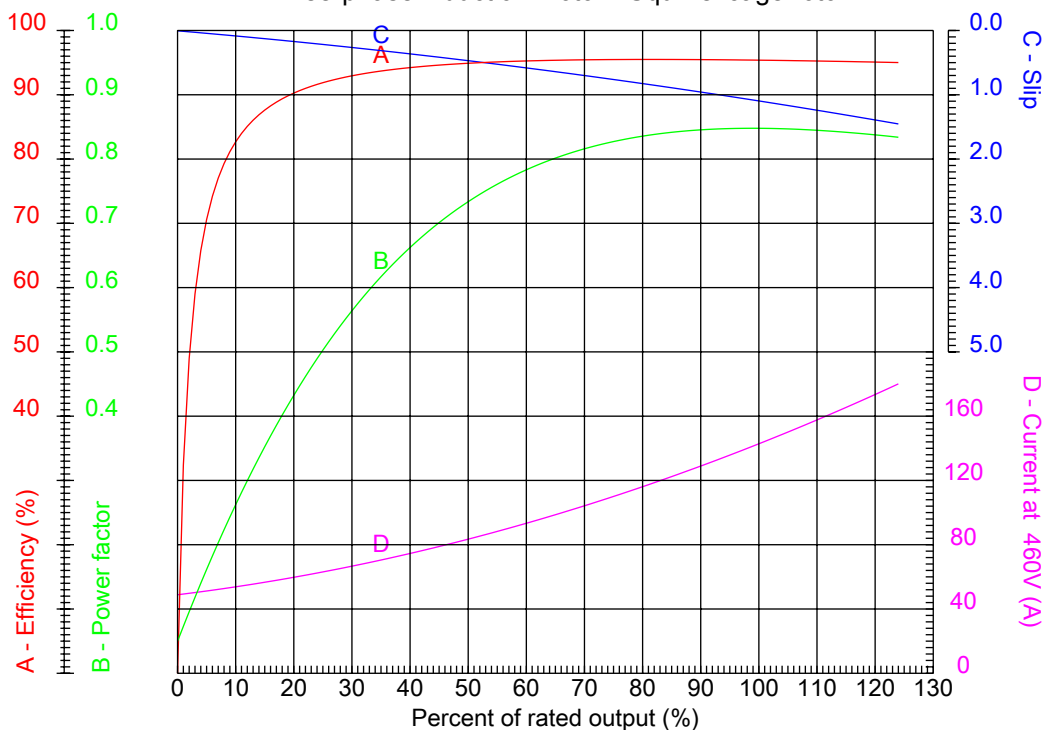
Checked



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PERFORMANCE CURVES RELATED TO RATED OUTPUT Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame : 444/5T	Locked rotor current (I _l /I _n) : 6.5
Output : 125 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 1780	Design : B
Voltage : 460 V	Locked rotor torque : 200 %
Rated current : 139 A	Breakdown torque : 250 %
Insulation class : F	

Notes:

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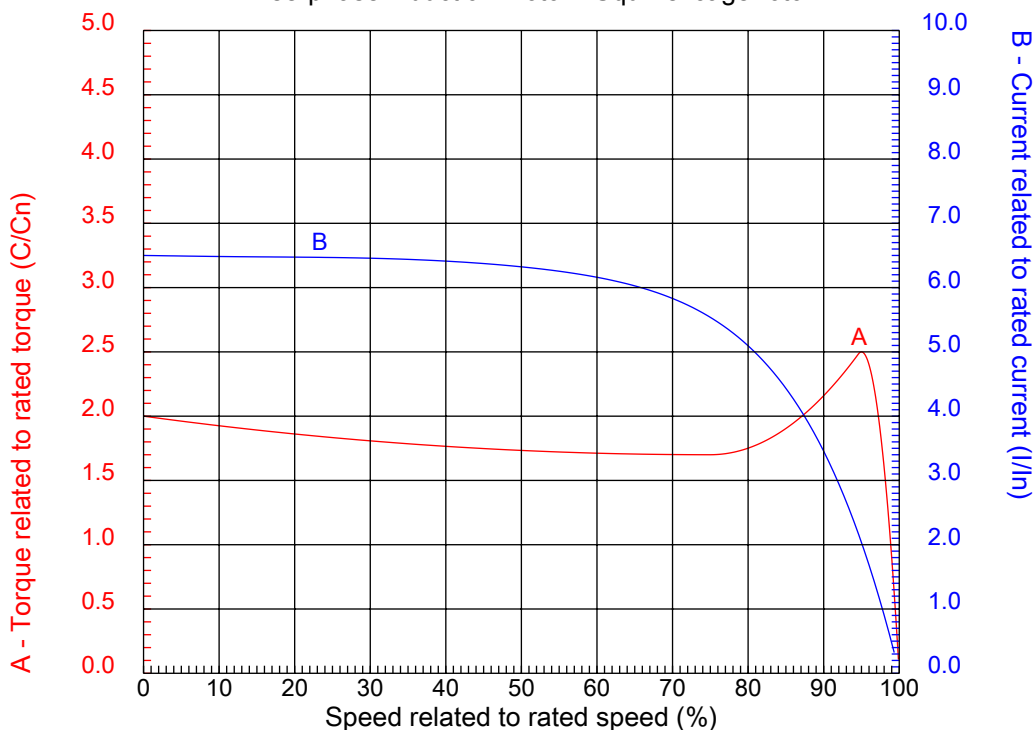


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



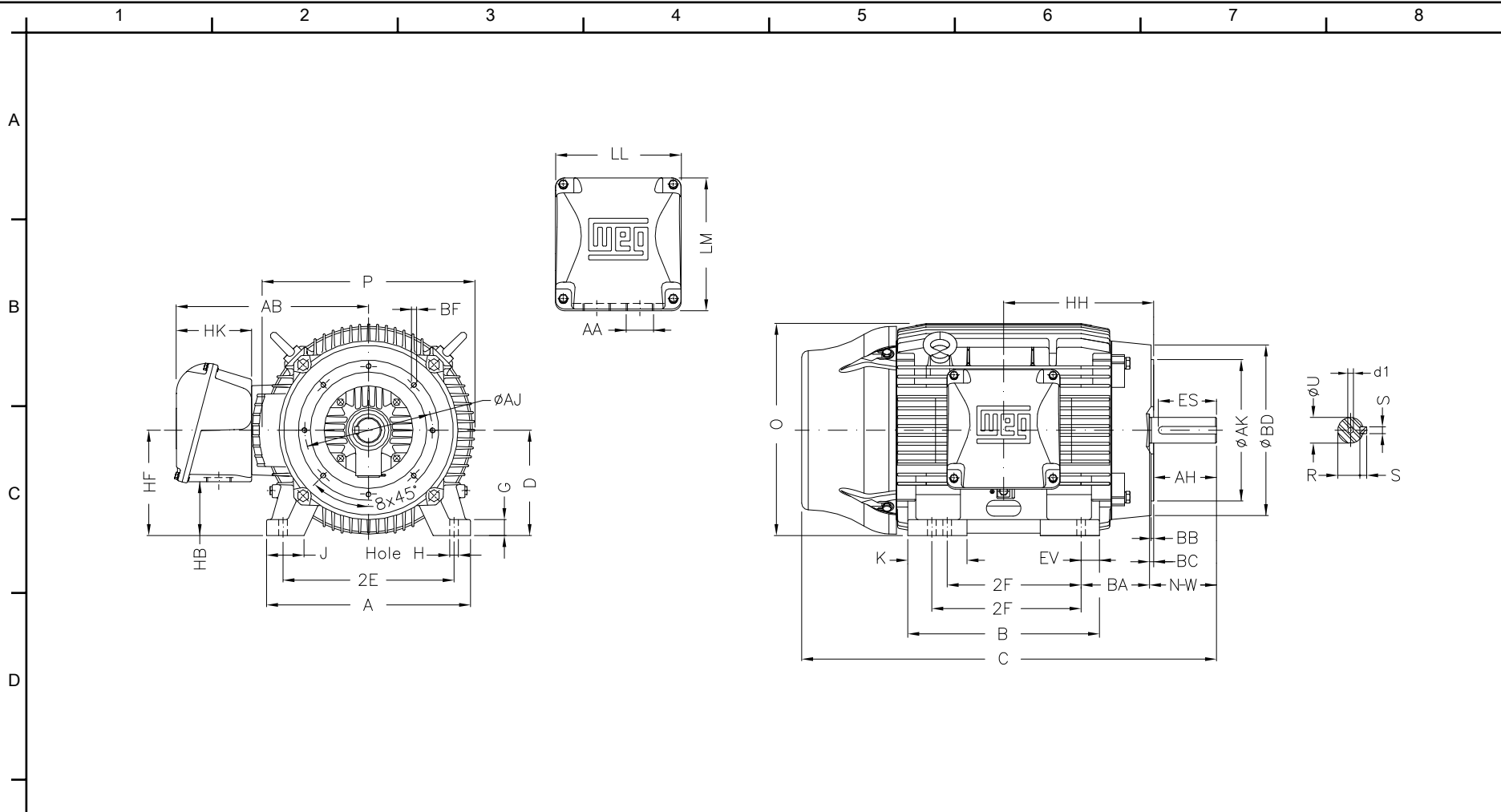
Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame	: 444/5T	Locked rotor current (I _l /I _n)	: 6.5
Output	: 125 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1780	Design	: B
Voltage	: 460 V	Locked rotor torque	: 200 %
Rated current	: 139 A	Breakdown torque	: 250 %
Insulation class	: F		

Notes:

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E	2E 18.000	J 3.937	A 21.929	P 23.583	AB 18.569
	2F 14.500/16.500	K 5.866	B 20.315	BA 7.500	U 3.375
	N-W 8.500	ES 7.087	S 0.875	R 2.880	depth 0.875
	D 11.000	G 1.630	HB 5.394	O 22.795	T 4.567
	HD 27.362	HH 15.748	HK 6.024	H 0.810	C 44.950
F	LL 12.362	LM 12.244	AA 2XNPT 3"	d1 DUNC 3/4"-10	d2 DUNC 3/4"-10
	Flange FC-355	AJ 14.000	AK 16.000	BD 17.913	BF UNC 5/8"x11
	BB 0.250	BC 0.250	AH 8.250		

Notes:

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Customer:

W22 NEMA Premium - Ball Bearings

Three-phase induction motor
Frame 444/5T - IP55

19-DEC-2012

