



No.:

Date: 17-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 NEMA Premium - Ball Bearings

Catalog Number : 00152ET3E182T-W22

List Price : \$754

Notes:

Performed by:

Checked:



No.:

Date: 17-DEC-2012

## DATA SHEET

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

Customer :  
Product line : W22 NEMA Premium - Ball Bearings

Frame : 182T  
Output : 1.5 HP  
Frequency : 60 Hz  
Poles : 6  
Full load speed : 1165  
Slip : 2.92 %  
Voltage : 208-230/460 V  
Rated current : 5.28-4.78/2.39 A  
Locked rotor current : 38.2/19.1 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 8.0  
No-load current : 3.25/1.63 A  
Full load torque : 6.67 lb.ft  
Locked rotor torque : 320 %  
Breakdown torque : 400 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 16 s (hot)  
Service factor : 1.25  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 70 lb  
Moment of inertia : 0.48789 sq.ft.lb  
Noise level : 52 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6207 ZZ	6206 ZZ	100%	0.66	87.5
Regreasing interval	---	---	75%	0.56	86.5
Grease amount	---	---	50%	0.45	84.0

Notes:

Performed by

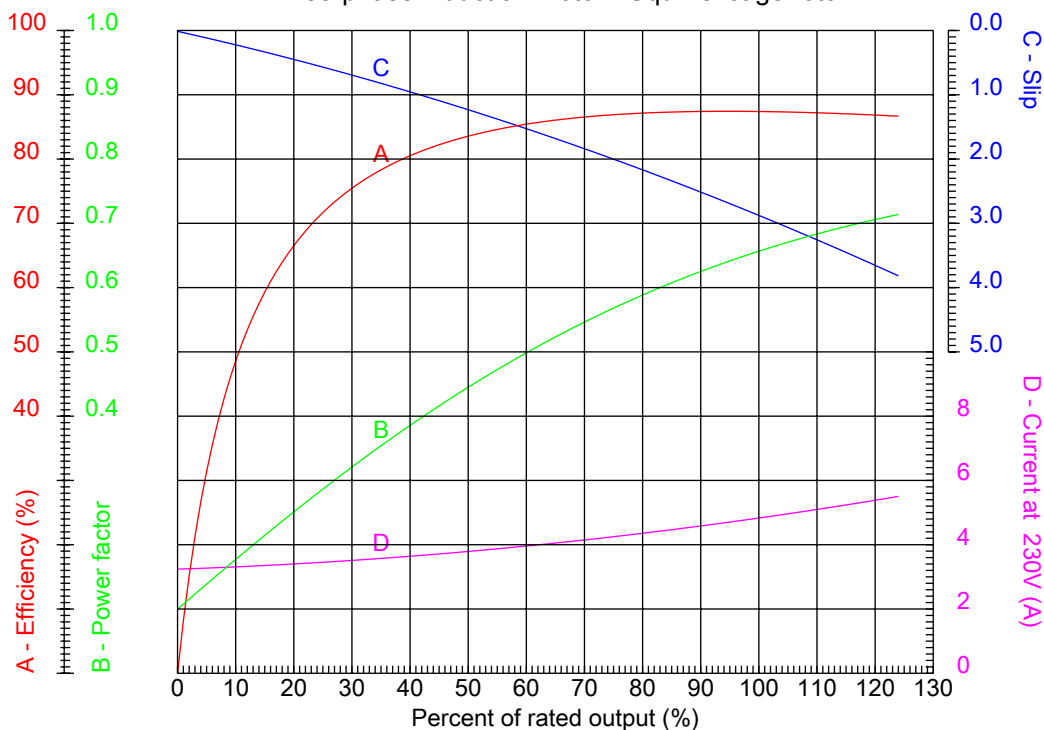
Checked



No.:

Date: 17-DEC-2012

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



Customer :  
Product line : W22 NEMA Premium - Ball Bearings

Frame : 182T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) : 8.0
Output : 1.5 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.25
Full load speed : 1165	Design : B
Voltage : 208-230/460 V	Locked rotor torque : 320 %
Rated current : 5.28-4.78/2.39 A	Breakdown torque : 400 %
Insulation class : F	

Notes:

Performed by

Checked

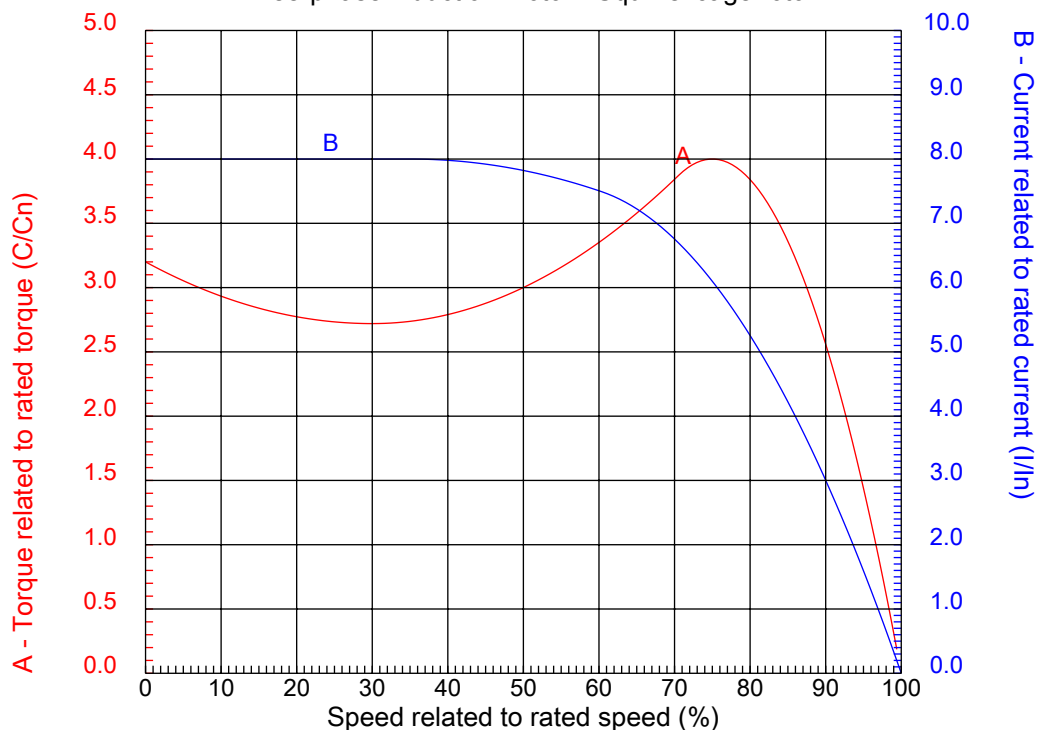


No.:

Date: 17-DEC-2012

### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



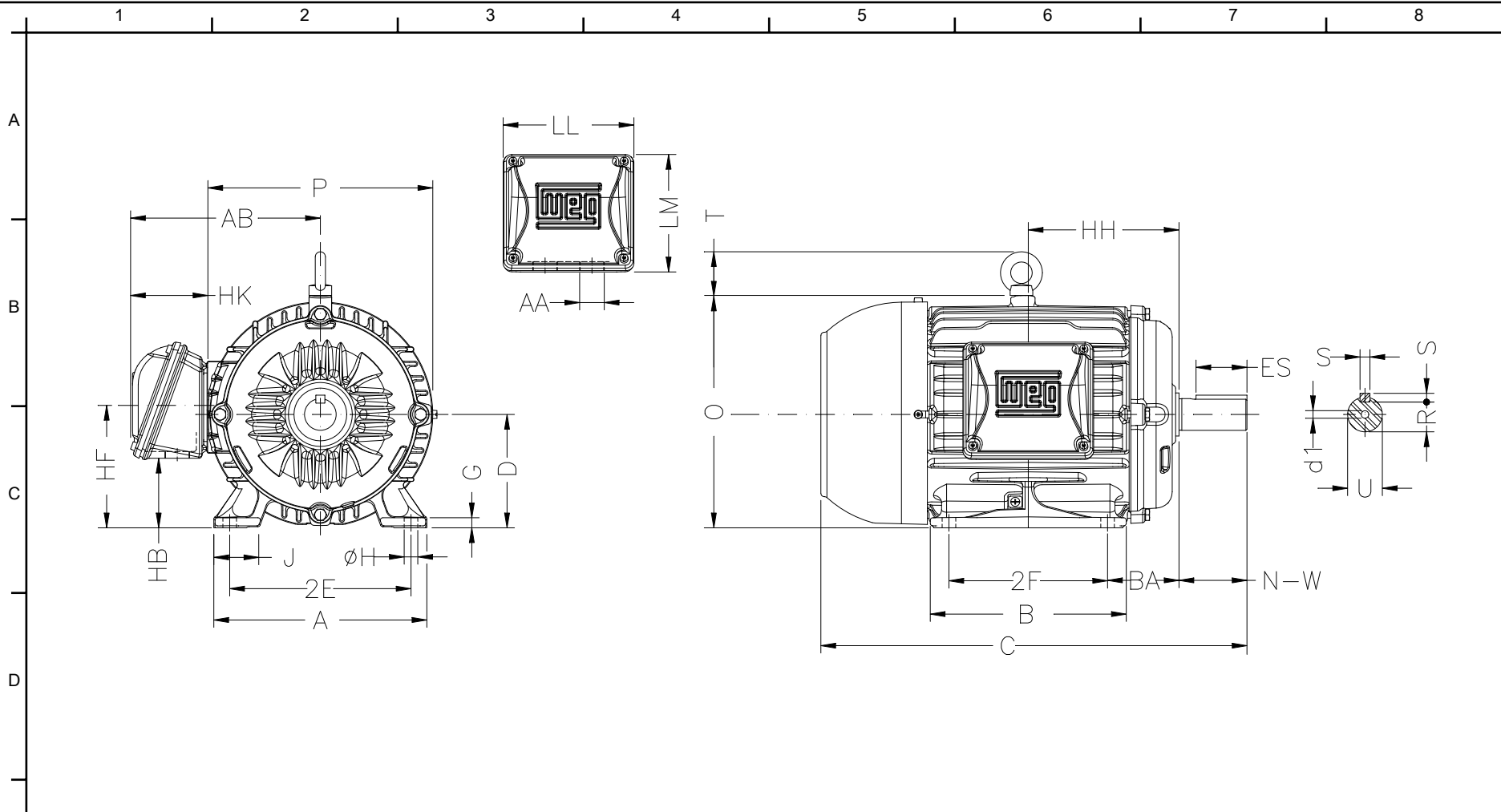
Customer :  
Product line : W22 NEMA Premium - Ball Bearings

Frame	: 182T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 8.0
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1165	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 320 %
Rated current	: 5.28-4.78/2.39 A	Breakdown torque	: 400 %
Insulation class	: F		

Notes:

Performed by

Checked



E	2E	J	A	P	AB
	7.500	1.594	8.661	8.740	7.559
F	2F	B	BA	FBA	U
	4.500	5.945	2.750	5.057	1.125
F	N-W	ES	S	R	depth
	2.750	1.969	0.250	0.984	0.250
F	D	G	HB	O	T
	4.500	0.394	2.236	9.343	1.772
F	HF	HH	HK	H	C
	4.500	5.000	3.110	0.406	14.860
F	FC	LL	LM	AA	d1
	17.307	5.512	5.236	NPT 1"	A 4
F	d2	Flange	AJ	AK	BD
	A 4	FD-254	10.000	9.000	11.00
F	BF	BB			
	0.562	0.203			

Notes:

Performed by:

Checked:

Customer:

W22 NEMA Premium - Ball Bearings

Three-phase induction motor  
Frame 182T - IP55

17-DEC-2012

