



No.:

Date: 28-DEC-2012

Customer :

TECHNICAL PROPOSAL

Single-phase induction motor - Squirrel cage rotor

Product line : Jet Pump - NEMA 56 : Single-Phase - Keyed - TEFC (IP55)

Catalog Number : .5036ES1BJP56C

List Price : \$284

Notes:

Performed by:

Checked:



No.:

Date: 28-DEC-2012

## DATA SHEET

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

Customer :  
Product line : Jet Pump - NEMA 56 : Single-Phase - Keyed - TEFC (IP55)

Frame : B56  
Output : 0.5 HP  
Frequency : 60 Hz  
Poles : 2  
Full load speed : 3480  
Slip : 3.33 %  
Voltage : 115/208-230 V  
Rated current : 7.60/3.80-3.80 A  
Locked rotor current : 42.6/21.3 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 5.6  
No-load current : 5.60/2.80 A  
Full load torque : 0.744 lb.ft  
Locked rotor torque : 320 %  
Breakdown torque : 280 %  
Design : ---  
Insulation class : B  
Temperature rise : 80 K  
Locked rotor time : 6 s (hot)  
Service factor : 1.15 (1.00 at 208V)  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 27 lb  
Moment of inertia : 0.03156 sq.ft.lb  
Noise level : ---

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6203 2RS	6202 2RS	100%	0.73	58.0
Regreasing interval	---	---	75%	0.66	52.0
Grease amount	---	---	50%	0.56	45.0

Notes:

Performed by

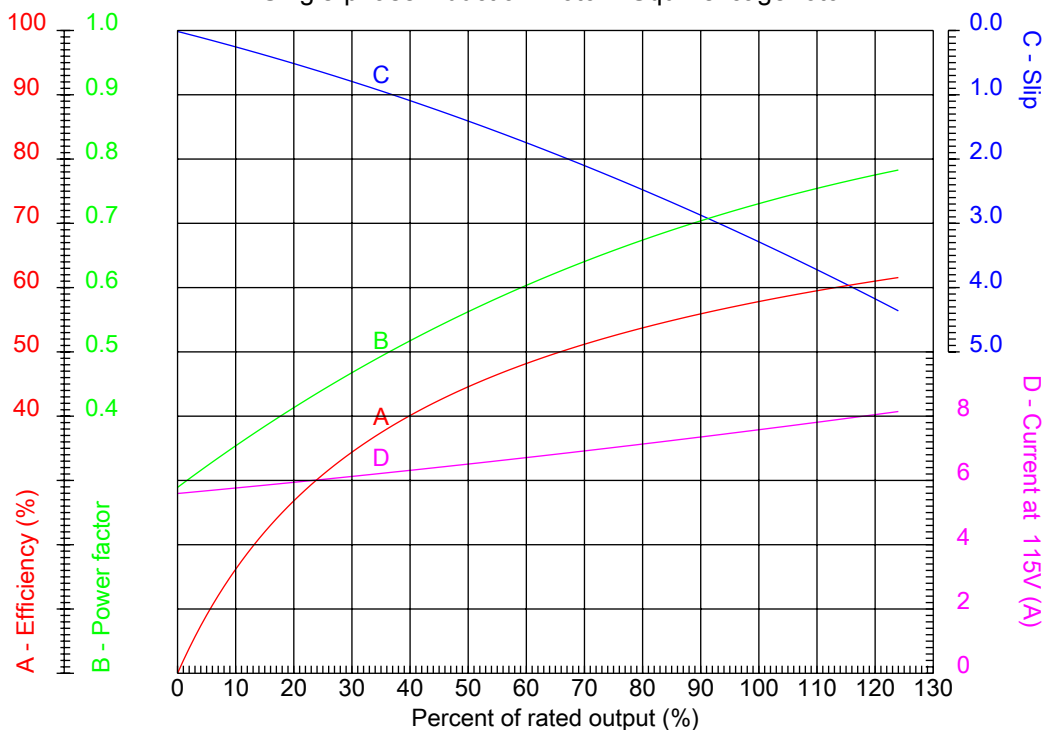
Checked



No.:

Date: 28-DEC-2012

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



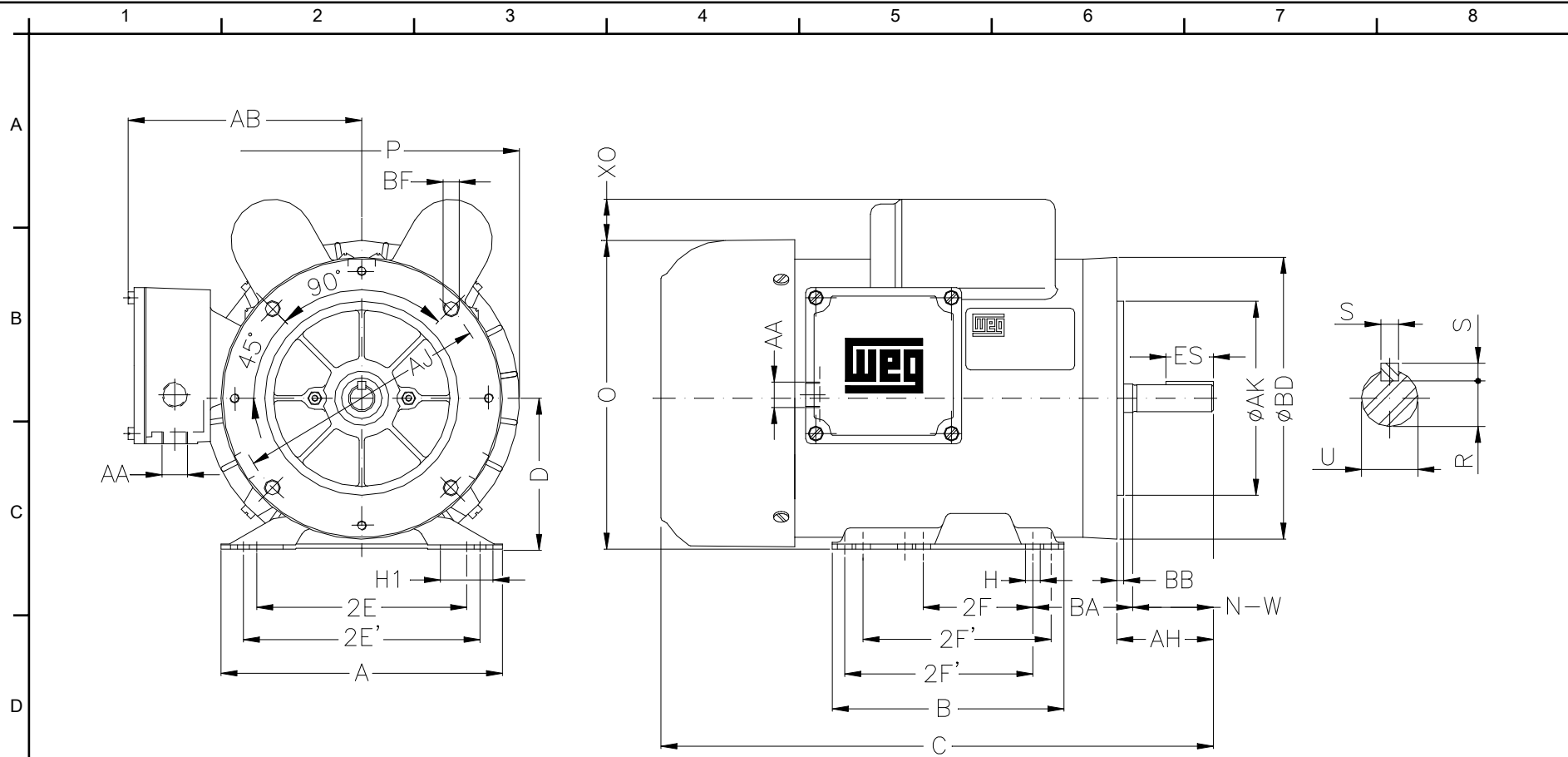
Customer :  
Product line : Jet Pump - NEMA 56 : Single-Phase - Keyed - TEFC (IP55)

Frame	: B56	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 5.6
Output	: 0.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15 (1.00 at 208V)
Full load speed	: 3480	Design	: ---
Voltage	: 115/208-230 V	Locked rotor torque	: 320 %
Rated current	: 7.60/3.80-3.80 A	Breakdown torque	: 280 %
Insulation class	: B		

Notes:

Performed by

Checked



Notes:

Performed by:

Checked:

Customer:

Jet Pump - NEMA 56 : Single-Phase - Keyed - TEFC (IP55)

2E 4.874	H 0.342	BA 2.750	A 6.535	P 7.323
D 3.500	J 1.220	O 7.165	AB 5.433	AA NPT 1/2"
Flange FC-149	AJ 5.874	AK 4.500	BD 6.535	BF UNC 3/8"x16-2B
BB 0.157	BC ---	AH		

Single-phase induction motor  
Frame B56 - IP55

28-DEC-2012

