



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 : 00156ES1BJP56C

List Price : \$412

Notes:

Performed by:

Checked:



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## DATA SHEET

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

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

Frame : D56  
Output : 1.5 HP  
Frequency : 60 Hz  
Poles : 2  
Full load speed : 3480  
Slip : 3.33 %  
Voltage : 115/208-230 V  
Rated current : 17.1/8.80-8.55 A  
Locked rotor current : 116/58.1 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.8  
No-load current : 10.8/5.40 A  
Full load torque : 2.23 lb.ft  
Locked rotor torque : 250 %  
Breakdown torque : 250 %  
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 : 36 lb  
Moment of inertia : 0.05933 sq.ft.lb  
Noise level : ---

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6204 2RS	6202 2RS	100%	0.80	70.0
Regreasing interval	---	---	75%	0.72	69.0
Grease amount	---	---	50%	0.61	62.0

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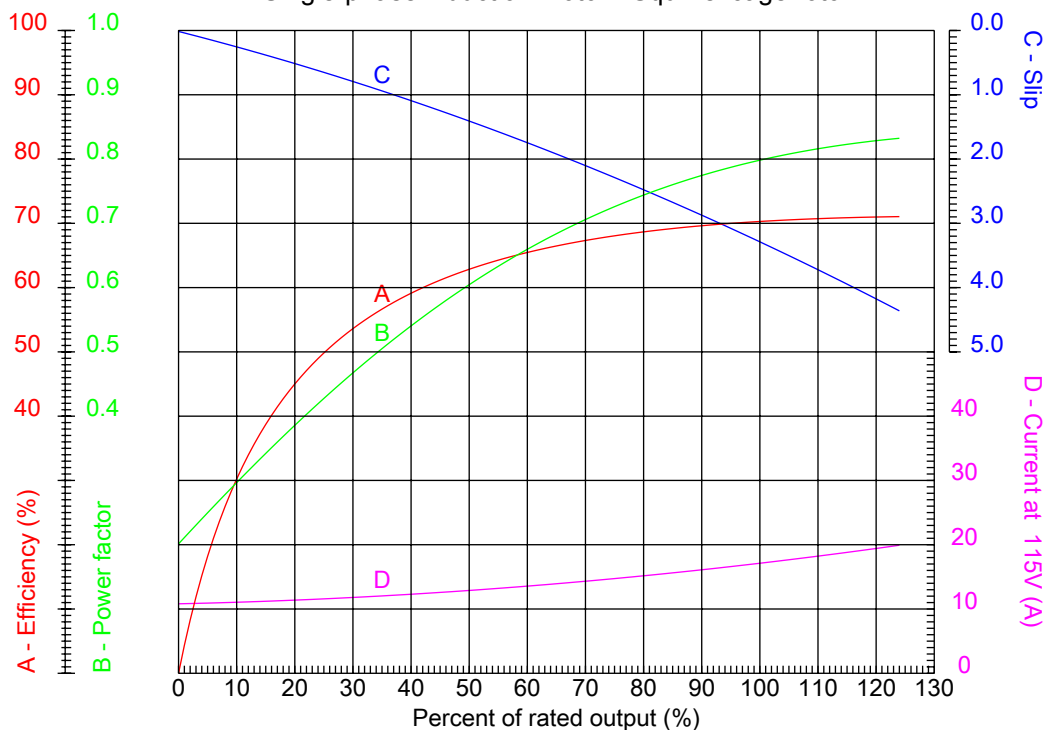
Checked



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



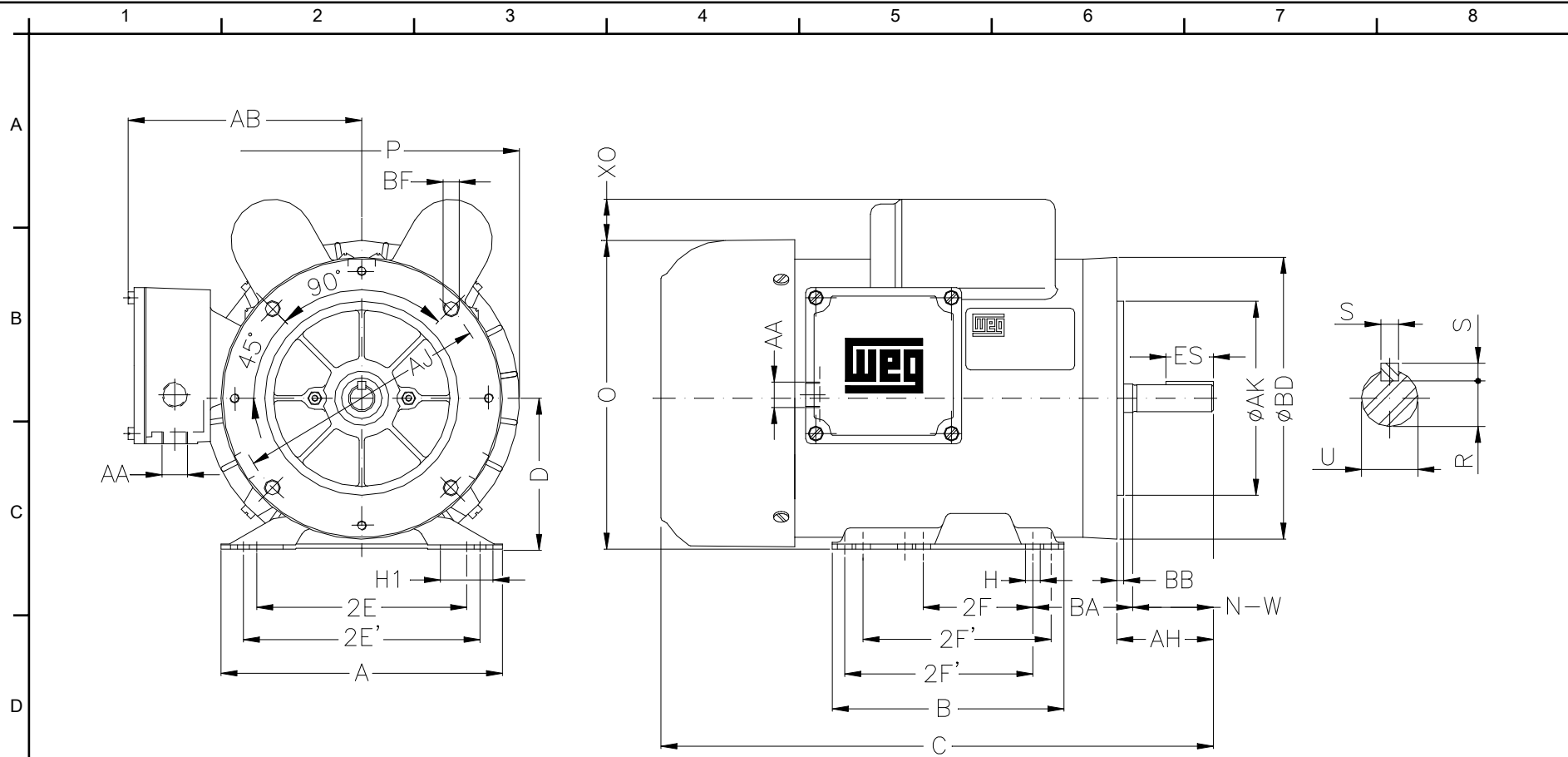
Customer :  
Product line : Jet Pump - NEMA 56 : Single-Phase - Keyed - TEFC (IP55)

Frame : D56	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) : 6.8
Output : 1.5 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 : 250 %
Rated current : 17.1/8.80-8.55 A	Breakdown torque : 250 %
Insulation class : B	

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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 D56 - IP55

28-DEC-2012

