



No.:

Date: 28-DEC-2012

Customer :

TECHNICAL PROPOSAL

Single-phase induction motor - Squirrel cage rotor

Product line : Pool & Spa Motors : C-Face - Start Capacitor - High Service Factor

Catalog Number : PCJ110H

List Price : \$300

Notes:

Performed by:

Checked:



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## DATA SHEET

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

Customer :  
Product line : Pool & Spa Motors : C-Face - Start Capacitor - High Service Factor

Frame : L56J  
Output : 1 HP  
Frequency : 60 Hz  
Poles : 2  
Full load speed : 3510  
Slip : 2.50 %  
Voltage : 115/230 V  
Rated current : 14.1/7.05 A  
Locked rotor current : 94.5/47.2 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.7  
No-load current : 10.5/5.25 A  
Full load torque : 1.48 lb.ft  
Locked rotor torque : 200 %  
Breakdown torque : 320 %  
Design : ---  
Insulation class : B  
Temperature rise : 80 K  
Locked rotor time : 6 s (hot)  
Service factor : 1.40  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP21  
Approximate weight : 31 lb  
Moment of inertia : 0.03607 sq.ft.lb  
Noise level : ---

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6203 2RS	6203 ZZ	100%	0.66	69.7
Regreasing interval	---	---	75%	0.57	65.0
Grease amount	---	---	50%	0.48	57.0

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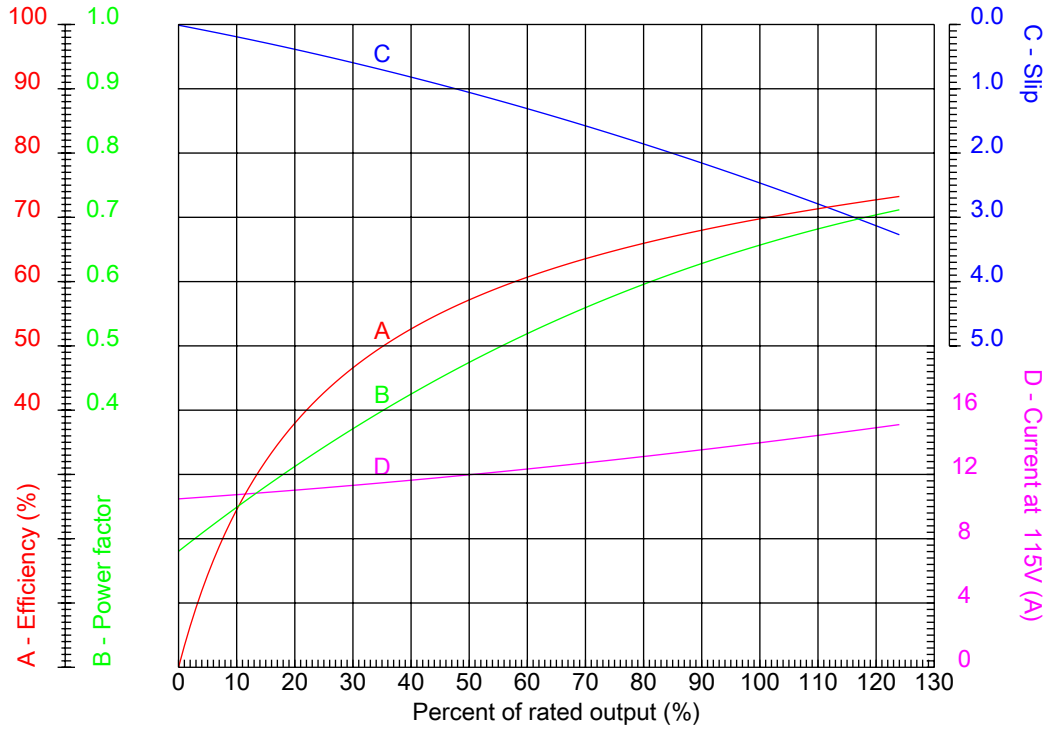


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### PERFORMANCE CURVES RELATED TO RATED OUTPUT

Single-phase induction motor - Squirrel cage rotor



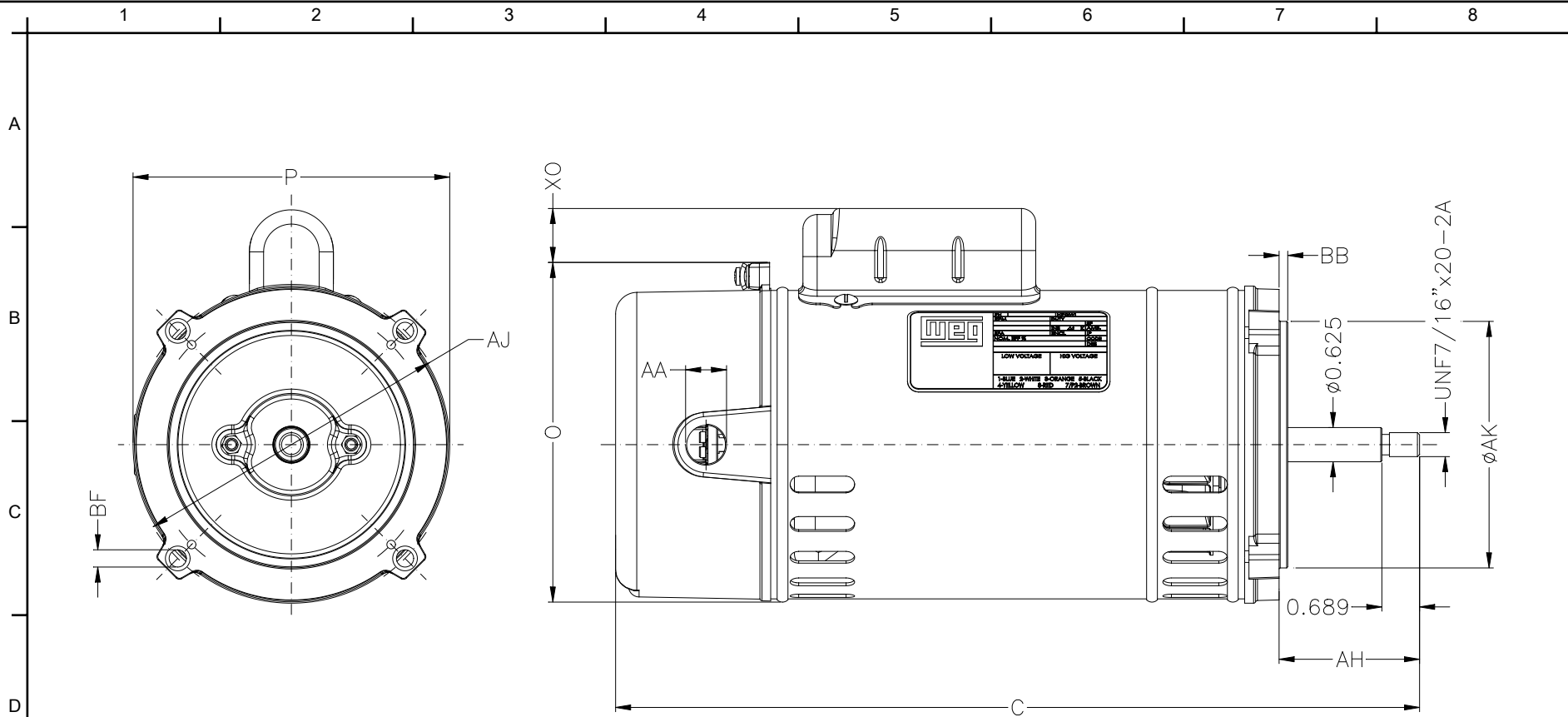
Customer :  
Product line : Pool & Spa Motors : C-Face - Start Capacitor - High Service Factor

Frame	: L56J	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.7
Output	: 1 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.40
Full load speed	: 3510	Design	: ---
Voltage	: 115/230 V	Locked rotor torque	: 200 %
Rated current	: 14.1/7.05 A	Breakdown torque	: 320 %
Insulation class	: B		

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Pool & Spa Motors : C-Face - Start Capacitor - High Service Factor

Single-phase induction motor  
Frame L56J - IP21

28-DEC-2012



P	C	AA	Flange	AJ
5.748	14.488	NPT 1/2	FC-149	5.874
AK	BD	BF	BB	BC
4.500	5.748	UNC 3/8"x16	0.157	---
AH				
2.563				