



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 : PCJ120H

List Price : \$486

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 : M56J  
Output : 2 HP  
Frequency : 60 Hz  
Poles : 2  
Full load speed : 3490  
Slip : 3.06 %  
Voltage : 230 V  
Rated current : 9.20 A  
Locked rotor current : 64.4 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.0  
No-load current : 4.00 A  
Full load torque : 2.97 lb.ft  
Locked rotor torque : 220 %  
Breakdown torque : 270 %  
Design : ---  
Insulation class : B  
Temperature rise : 80 K  
Locked rotor time : 6 s (hot)  
Service factor : 1.20  
Duty cycle : S1  
Ambient temperature : -20°C - +50°C  
Altitude : 1000  
Degree of Protection : IP21  
Approximate weight : 34 lb  
Moment of inertia : 0.04461 sq.ft.lb  
Noise level : ---

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6203 2RS	6203 ZZ	100%	0.90	78.3
Regreasing interval	---	---	75%	0.85	73.0
Grease amount	---	---	50%	0.78	66.0

Notes:

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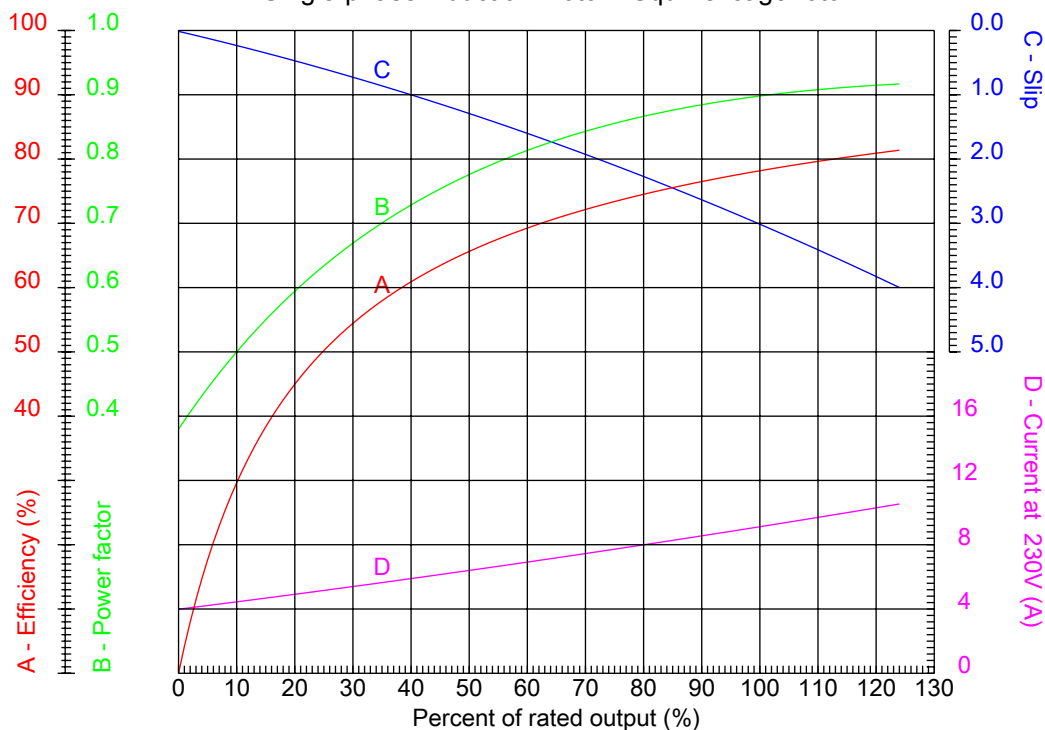
Checked



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



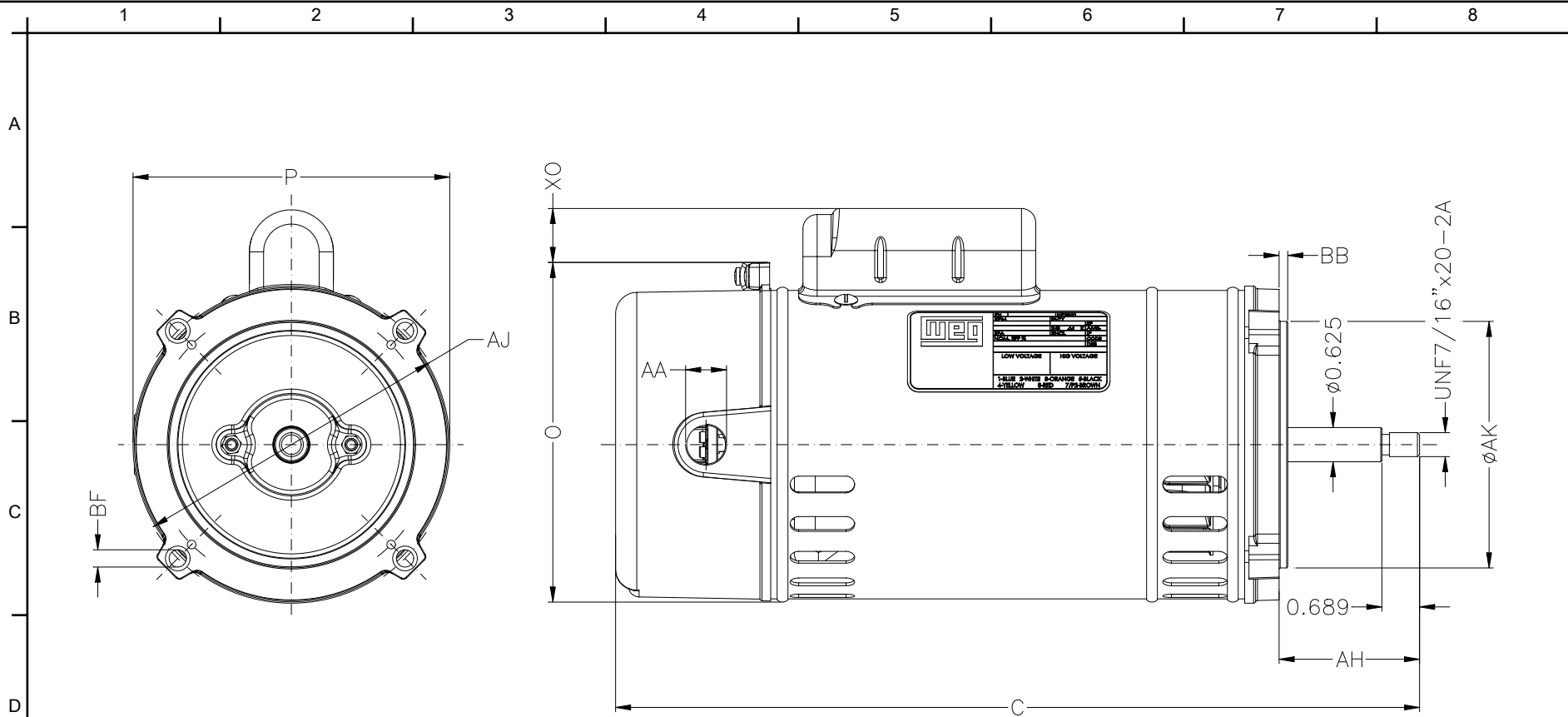
Customer :  
Product line : Pool & Spa Motors : C-Face - Start Capacitor - High Service Factor

Frame	: M56J	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.0
Output	: 2 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.20
Full load speed	: 3490	Design	: ---
Voltage	: 230 V	Locked rotor torque	: 220 %
Rated current	: 9.20 A	Breakdown torque	: 270 %
Insulation class	: B		

Notes:

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Customer:	
Pool & Spa Motors : C-Face - Start Capacitor - High Service Factor	
Single-phase induction motor Frame M56J - IP21	28-DEC-2012

P 6.535	C 15.079	AA NPT 1/2"	Flange FC-149	AJ 5.874
AK 4.500	BD 6.535	BF UNC 3/8"x16	BB 0.157	BC ---
AH 2.563				

