



No.:

Date: 28-DEC-2012

Customer :

TECHNICAL PROPOSAL

Single-phase induction motor - Squirrel cage rotor

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

Catalog Number : PCJ110

List Price : \$263

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 - Low Service Factor

Frame : K56J
Output : 1 HP
Frequency : 60 Hz
Poles : 2
Full load speed : 3470
Slip : 3.61 %
Voltage : 115/230 V
Rated current : 12.5/6.25 A
Locked rotor current : 71.3/35.6 A
Locked rotor current (I_L/I_n) : 5.7
No-load current : 8.30/4.15 A
Full load torque : 1.49 lb.ft
Locked rotor torque : 140 %
Breakdown torque : 250 %
Design : ---
Insulation class : B
Temperature rise : 80 K
Locked rotor time : 6 s (hot)
Service factor : 1.25
Duty cycle : S1
Ambient temperature : -20°C - +50°C
Altitude : 1000
Degree of Protection : IP21
Approximate weight : 27 lb
Moment of inertia : 0.02966 sq.ft.lb
Noise level : ---

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6203 2RS	6203 ZZ	100%	0.74	70.1
Regreasing interval	---	---	75%	0.67	67.0
Grease amount	---	---	50%	0.56	61.0

Notes:

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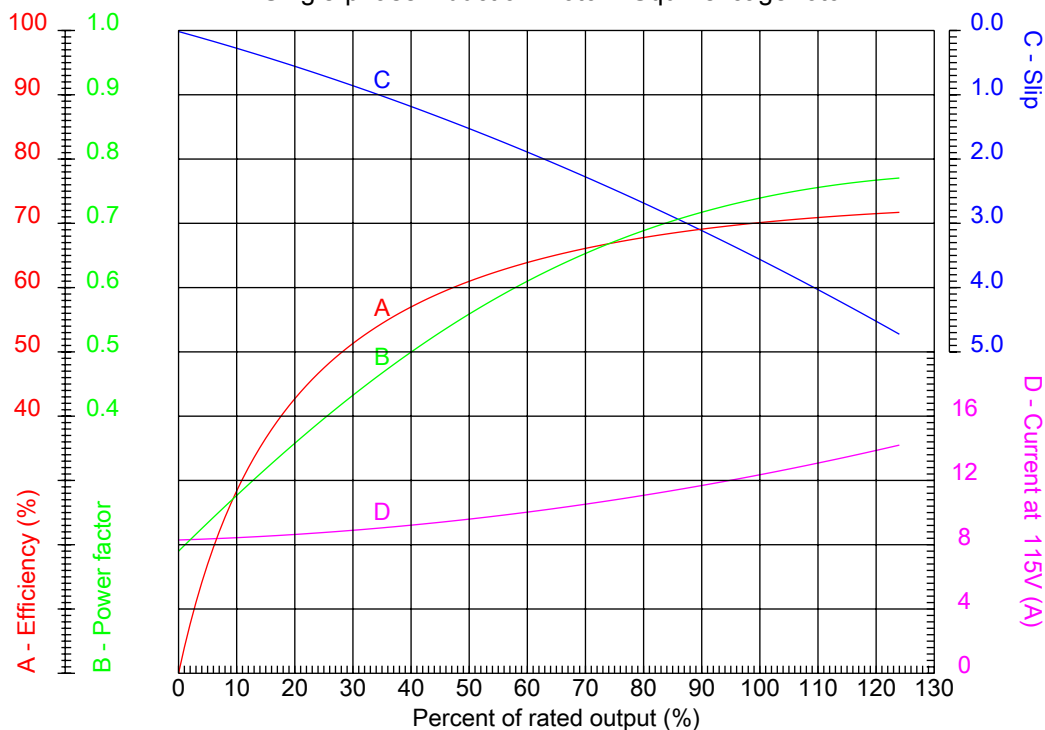
Checked



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



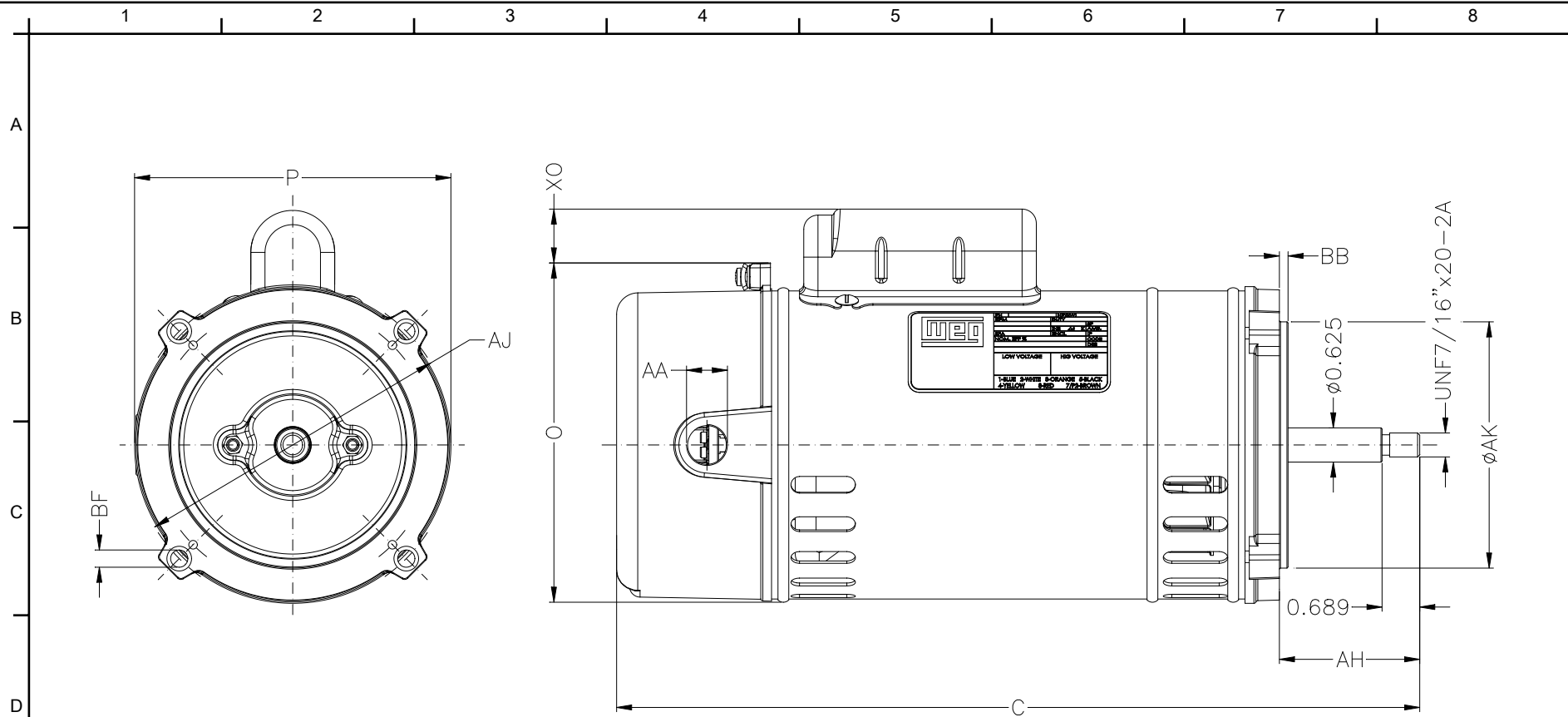
Customer :
Product line : Pool & Spa Motors : C-Face - Start Capacitor - Low Service Factor

Frame	: K56J	Locked rotor current (I _l /I _n)	: 5.7
Output	: 1 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 3470	Design	: ---
Voltage	: 115/230 V	Locked rotor torque	: 140 %
Rated current	: 12.5/6.25 A	Breakdown torque	: 250 %
Insulation class	: B		

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

P	C	AA	Flange	AJ
5.748	13.898	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				

Single-phase induction motor
Frame K56J - IP21

28-DEC-2012

