



Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

TECHNICAL PROPOSAL

## Single-phase induction motor - Squirrel cage rotor

Product line : Single-Phase : NEMA 48 & 56 ODP - Start Capacitor

Catalog Number : .1618OS1BB48C

List Price : \$231

Notes:

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Generated for Model #.1618OS1BB48C

Performed by:

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

Customer :  
Product line : Single-Phase : NEMA 48 & 56 ODP - Start Capacitor

Frame : B48  
Output : 0.16 HP  
Frequency : 60 Hz  
Poles : 4  
Full load speed : 1740 rpm  
Slip : 3.33 %  
Voltage : 115/208-230 V  
Rated current : 3.70/1.75-1.85 A  
Locked rotor current : 17.4/8.70 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 4.7  
No-load current : 3.20/1.60 A  
Full load torque : 0.476 lb.ft  
Locked rotor torque : 360 %  
Breakdown torque : 290 %  
Design : ---  
Insulation class : B  
Temperature rise : 80 K  
Locked rotor time : 6 s (hot)  
Service factor : 1.35 (1.00 at 208V)  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000 m  
Degree of Protection : IP21  
Approximate weight : 18 lb  
Moment of inertia : 0.02800 sq.ft.lb  
Noise level : ---

	D.E.	N.D.E.
Bearings	6203 ZZ	6202 ZZ
Regreasing interval	---	---
Grease amount	---	---

Load	Power factor	Efficiency (%)
100%	0.55	50.3
75%	0.48	46.5
50%	0.41	38.0

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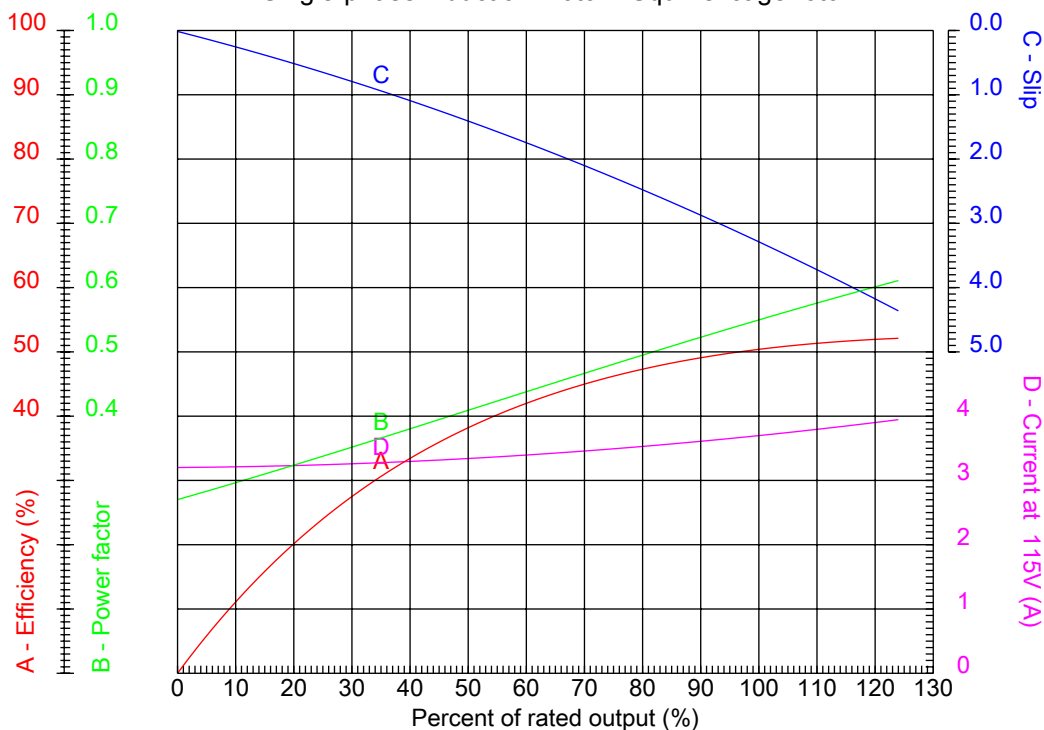
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Single-phase induction motor - Squirrel cage rotor



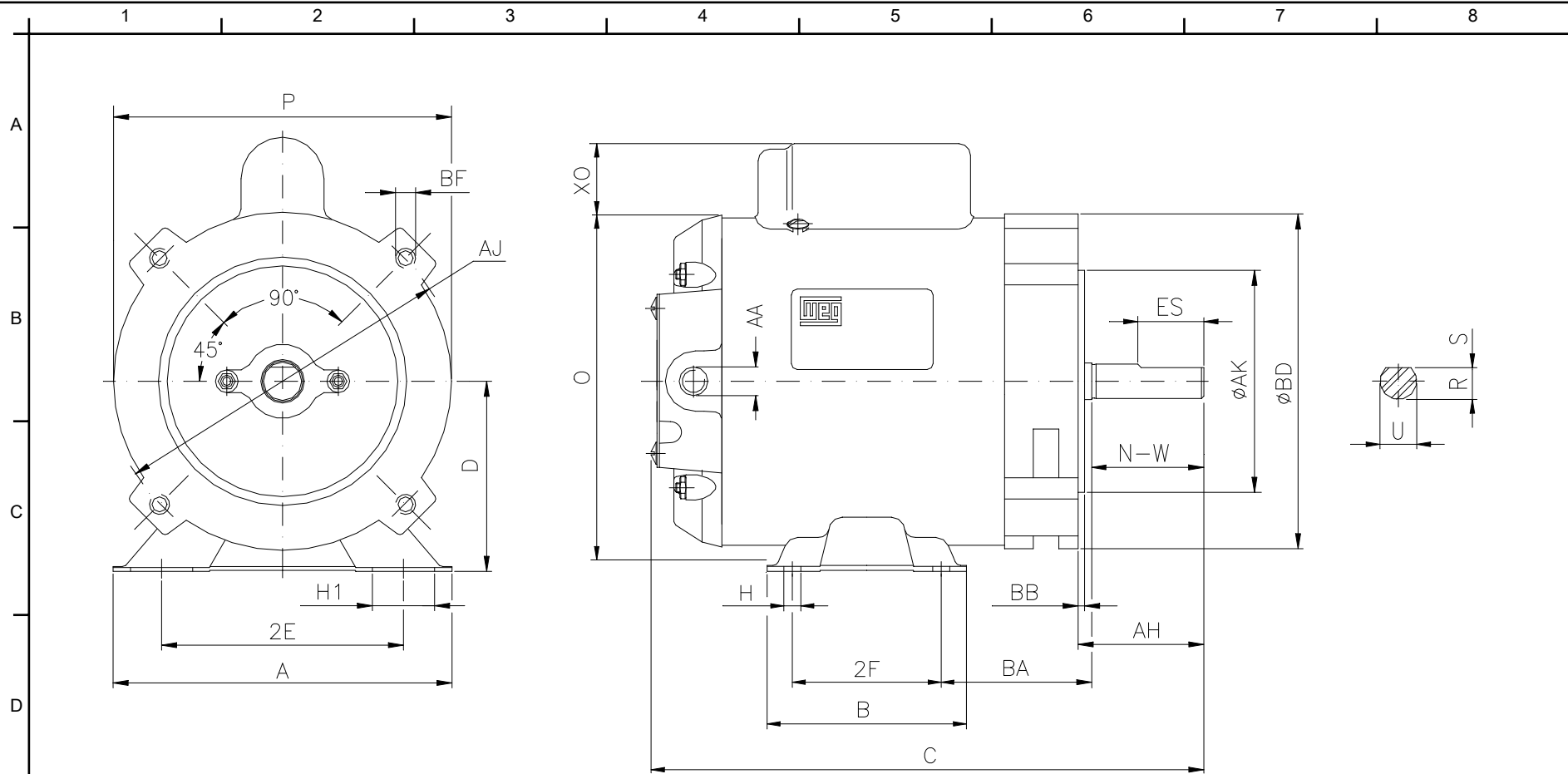
Customer :  
 Product line : Single-Phase : NEMA 48 & 56 ODP - Start Capacitor

Frame	: B48	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 4.7
Output	: 0.16 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.35 (1.00 at 208V)
Full load speed	: 1740 rpm	Design	: ---
Voltage	: 115/208-230 V	Locked rotor torque	: 360 %
Rated current	: 3.70/1.75-1.85 A	Breakdown torque	: 290 %
Insulation class	: B		

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Customer:

Single-Phase : NEMA 48 & 56 ODP - Start Capacitor

Single-phase induction motor  
 Frame B48 - IP21

12-SEP-2016



2E 4.236	2F 2.748	H 0.342	H1 31	BA 2.500
A 6.142	B 3.543	C 9.409	D 3.000	O 5.905
XO 0.000	P 5.708	ES 1.260	N-W 1.500	U 0.5000
R 0.453	AA NPT 1/2"	AH 1.689	Flange FC-149	AJ 5.874
AK 4.500	BD 5.748	BF UNC 3/8"x16-2B	BB 0.157	