



No.:

Date: 28-DEC-2012

Customer :

TECHNICAL PROPOSAL

Single-phase induction motor - Squirrel cage rotor

Product line : Auger Drive : Single-Phase - TEFC (IP55)

Catalog Number : .5018ES1RADB56N

List Price : \$438

Notes:

Performed by:

Checked:



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DATA SHEET

Single-phase induction motor - Squirrel cage rotor

Customer :
Product line : Auger Drive : Single-Phase - TEFC (IP55)

Frame : B56
Output : 0.5 HP
Frequency : 60 Hz
Poles : 4
Full load speed : 1750
Slip : 2.78 %
Voltage : 115/230 V
Rated current : 7.40/3.70 A
Locked rotor current : 42.9/21.5 A
Locked rotor current (I_L/I_n) : 5.8
No-load current : 5.60/2.80 A
Full load torque : 1.48 lb.ft
Locked rotor torque : 290 %
Breakdown torque : 270 %
Design : ---
Insulation class : B
Temperature rise : 80 K
Locked rotor time : 6 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 33 lb
Moment of inertia : 0.08044 sq.ft.lb
Noise level : ---

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6203 ZZ	6203 ZZ	100%	0.65	66.5
Regreasing interval	---	---	75%	0.57	64.0
Grease amount	---	---	50%	0.46	56.0

Notes:

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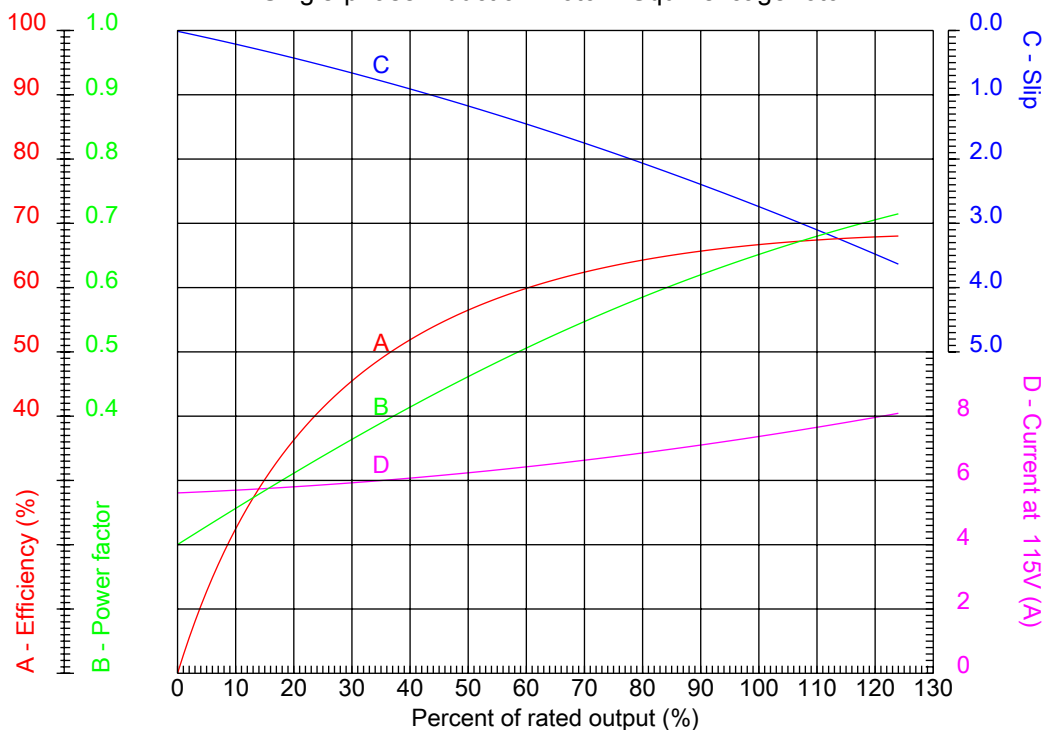
Checked



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



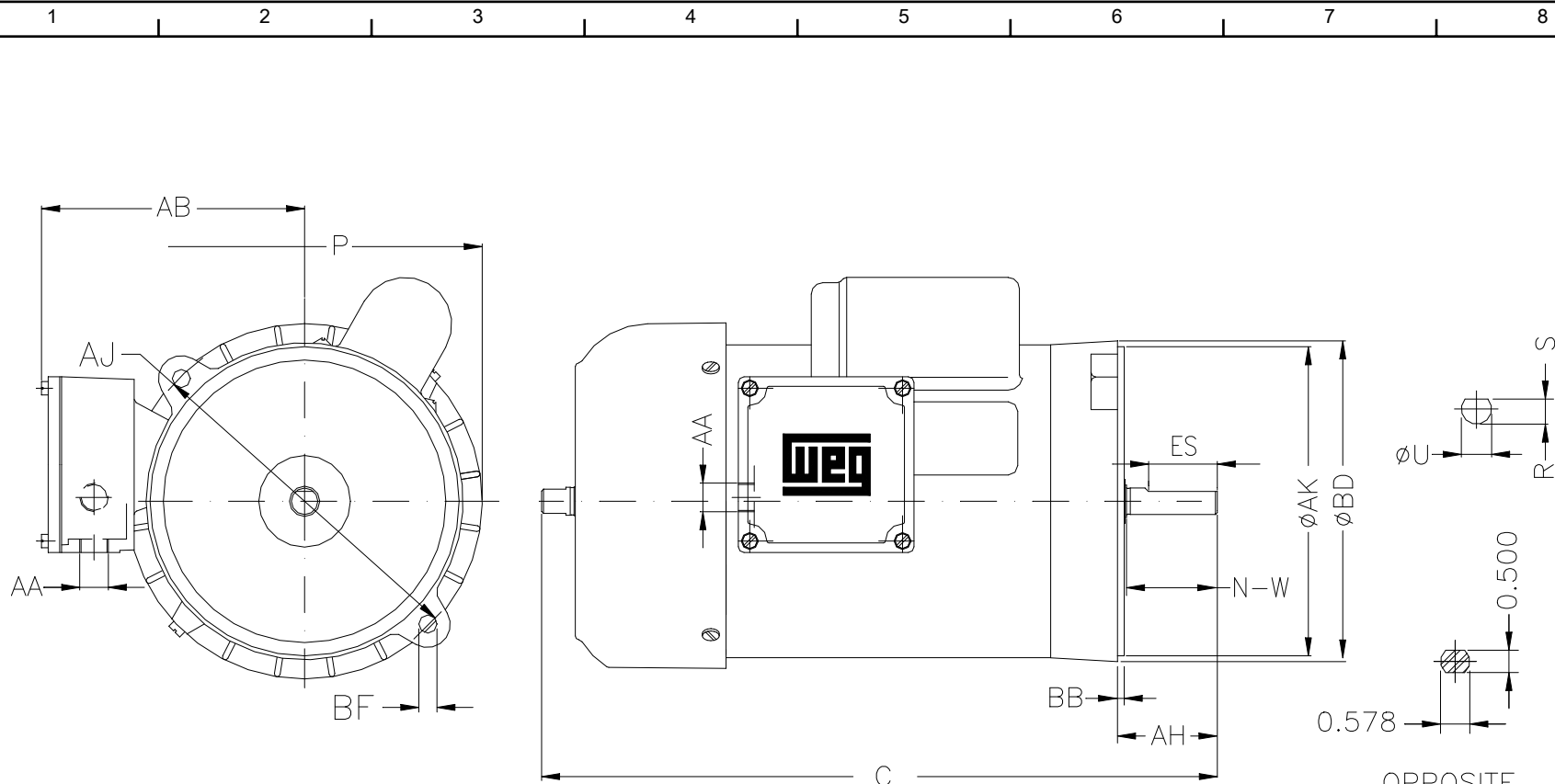
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Rated current	: 7.40/3.70 A	Breakdown torque	: 270 %
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Customer:

Auger Drive : Single-Phase - TEFC (IP55)

P	ES	N-W	U	R
7.323	1.500	1.874	0.500	0.453
AB	AA	Flange	AJ	AK
5.433	2XNPT 1/2"	FC-184	7.250	6.374
BD	BF	BB	AH	
6.614	9.5	0.137	2.059	

Single-phase induction motor

Frame B56 - IP55

28-DEC-2012

