



Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

TECHNICAL PROPOSAL

Single-phase induction motor - Squirrel cage rotor

Product line : Single Phase: W01 (Rolled Steel) - TEFC - Standard Efficiency

Catalog Number : .5012ES1B56C-S

List Price : \$535

Notes:

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Generated for Model #.5012ES1B56C-S

Performed by:

Checked:



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No.:

Date: 12-SEP-2016

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

Customer :  
 Product line : Single Phase: W01 (Rolled Steel) - TEFC - Standard Efficiency

Frame : 56  
 Output : 0.5 HP  
 Frequency : 60 Hz  
 Poles : 6  
 Full load speed : 1170 rpm  
 Slip : 2.50 %  
 Voltage : 115/208-230 V  
 Rated current : 6.40/3.54-3.20 A  
 Locked rotor current : 42.2/21.1 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.6  
 No-load current : 4.40/2.20 A  
 Full load torque : 2.21 lb.ft  
 Locked rotor torque : 240 %  
 Breakdown torque : 260 %  
 Design : ---  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 18 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP55  
 Approximate weight : 31 lb  
 Moment of inertia : 0.12411 sq.ft.lb  
 Noise level : 54 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6203 ZZ	6202 ZZ	100%	0.72	67.0
Regreasing interval	---	---	75%	0.67	63.0
Grease amount	---	---	50%	0.58	54.0

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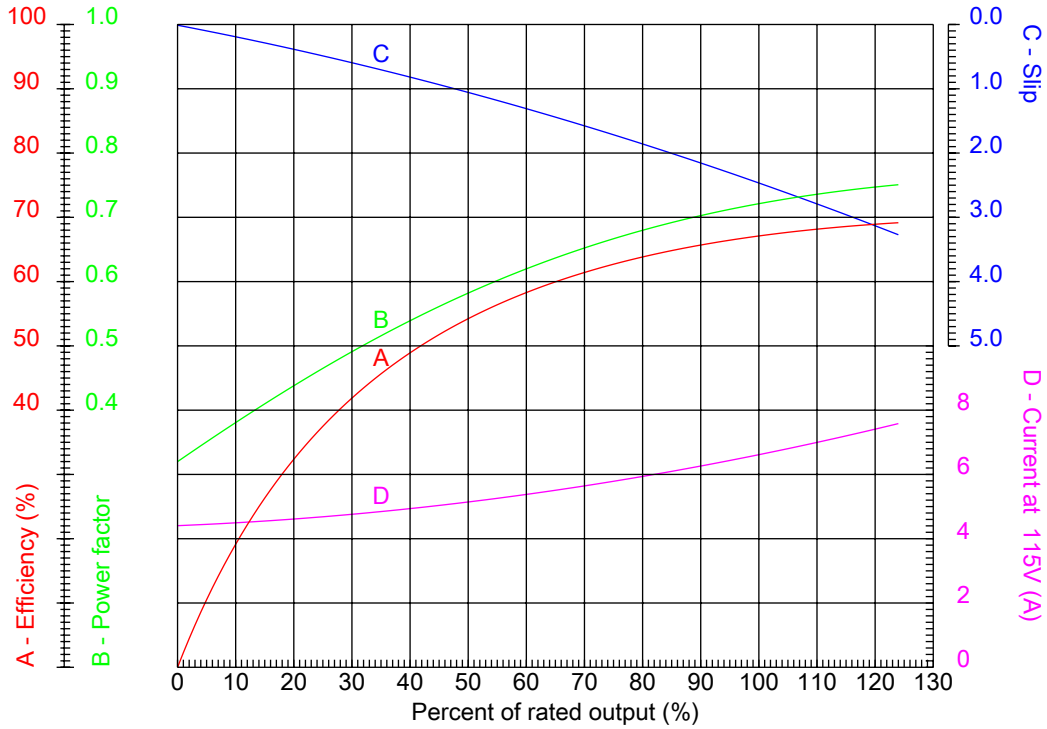
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No.:

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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Single-phase induction motor - Squirrel cage rotor



Customer :  
 Product line : Single Phase: W01 (Rolled Steel) - TEFC - Standard Efficiency

Frame	: 56	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.6
Output	: 0.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1170 rpm	Design	: ---
Voltage	: 115/208-230 V	Locked rotor torque	: 240 %
Rated current	: 6.40/3.54-3.20 A	Breakdown torque	: 260 %
Insulation class	: F		

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1 2 3 4 5 6 7 8

A

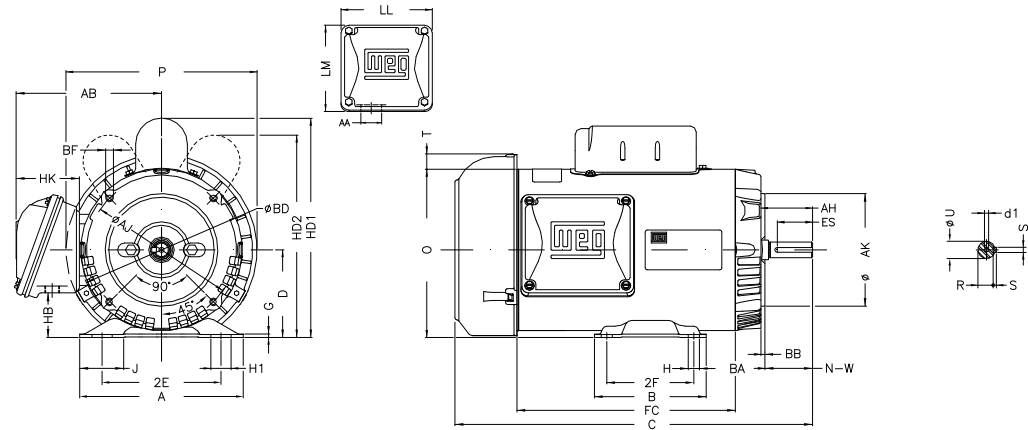
B

C

D

E

F



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Customer:

Single Phase: W01 (Rolled Steel) - TEFC - Standard Efficiency

P	AB	J	2E	A
7.638	5.882	1.732	4.874	6.535
H	G	HB	HK	XO
0.343	0.120	1.783	2.638	0.603
O	FC	2F	B	C
6.724	7.874	3.000	4.016	13.508
BA	N-W	ES	d1	S
2.750	1.874	1.417	A 3,15	0.187
U	AA	depth	R	LL
0.625	0.881"	0.187	0.517	4.543
LM	D	CH	HD2	HC2
4.106	3.500	1.377	8.150	4.650
Flange	AJ	AK	BD	BF
FC-149	5.874	4.500	6.450	UNC 3/8"x16-2B
BB	AH			
0.157	2.062			

Single-phase induction motor  
Frame 56 - IP55

12-SEP-2016

