



# Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

## TECHNICAL PROPOSAL

### Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase : NEMA 56 Frames - TEFC

Catalog Number : 00158ES3ED56CFL

List Price : \$384

#### Notes:

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

Customer :  
Product line : Three-Phase : NEMA 56 Frames - TEFC

Frame : D56  
Output : 1.5 HP  
Frequency : 60 Hz  
Poles : 4  
Full load speed : 1750 rpm  
Slip : 2.78 %  
Voltage : 208-230/460 V  
Rated current : 4.80-4.60/2.30 A  
Locked rotor current : 39.1/19.5 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 8.5  
No-load current : 3.40/1.70 A  
Full load torque : 4.44 lb.ft  
Locked rotor torque : 310 %  
Breakdown torque : 350 %  
Design : A  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 10 s (hot)  
Service factor : 1.15 (1.00 at 208V)  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000 m  
Degree of Protection : IP55  
Approximate weight : 36 lb  
Moment of inertia : 0.15970 sq.ft.lb  
Noise level : ---

	D.E.	N.D.E.
Bearings	6204 ZZ	6202 ZZ
Regreasing interval	---	---
Grease amount	---	---

Load	Power factor	Efficiency (%)
100%	0.75	80.0
75%	0.67	79.0
50%	0.54	74.5

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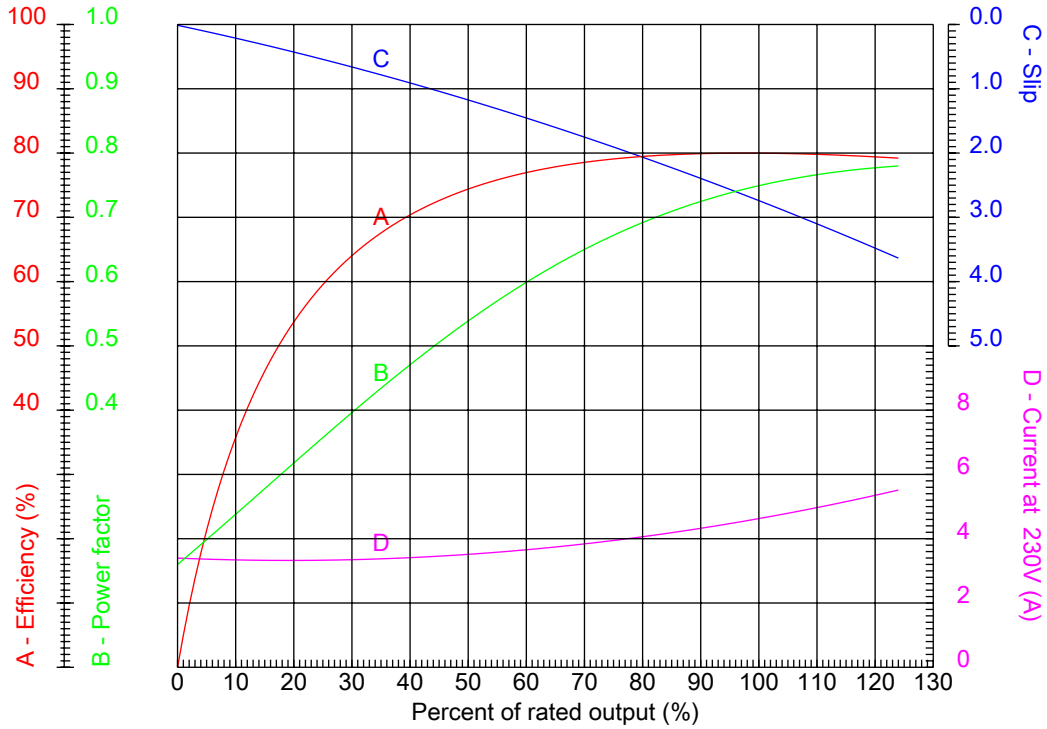
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
 Product line : Three-Phase : NEMA 56 Frames - TEFC

Frame : D56	Locked rotor current (I <sub>L</sub> /I <sub>n</sub> ) : 8.5
Output : 1.5 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15 (1.00 at 208V)
Full load speed : 1750 rpm	Design : A
Voltage : 208-230/460 V	Locked rotor torque : 310 %
Rated current : 4.80-4.60/2.30 A	Breakdown torque : 350 %
Insulation class : F	

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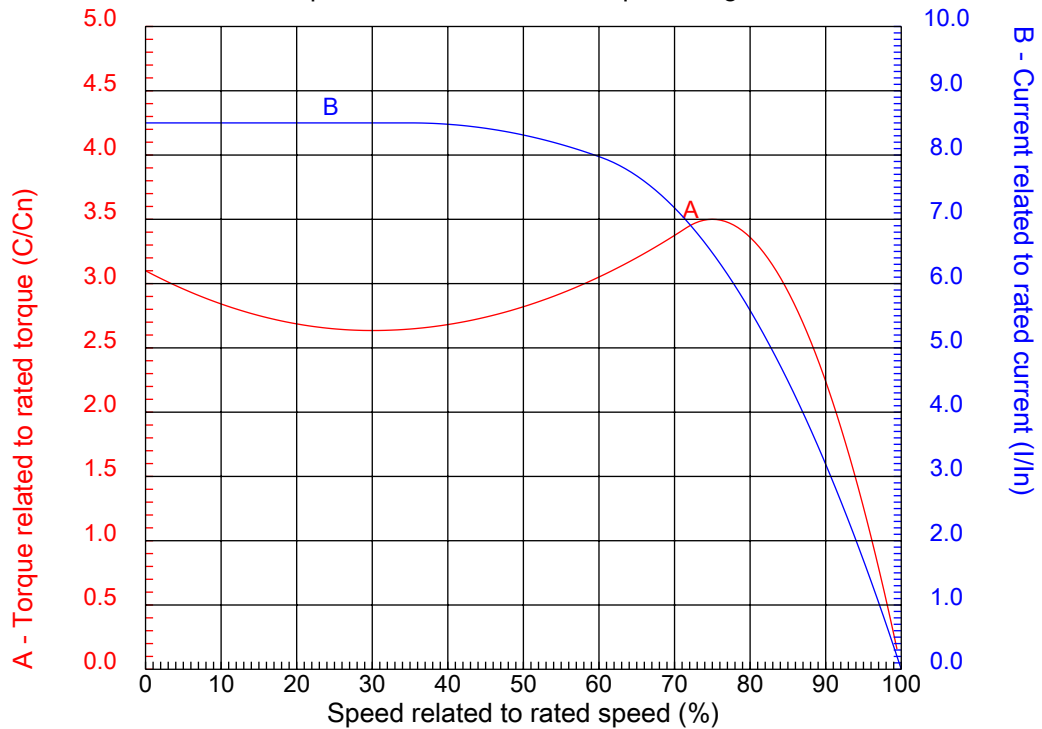
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



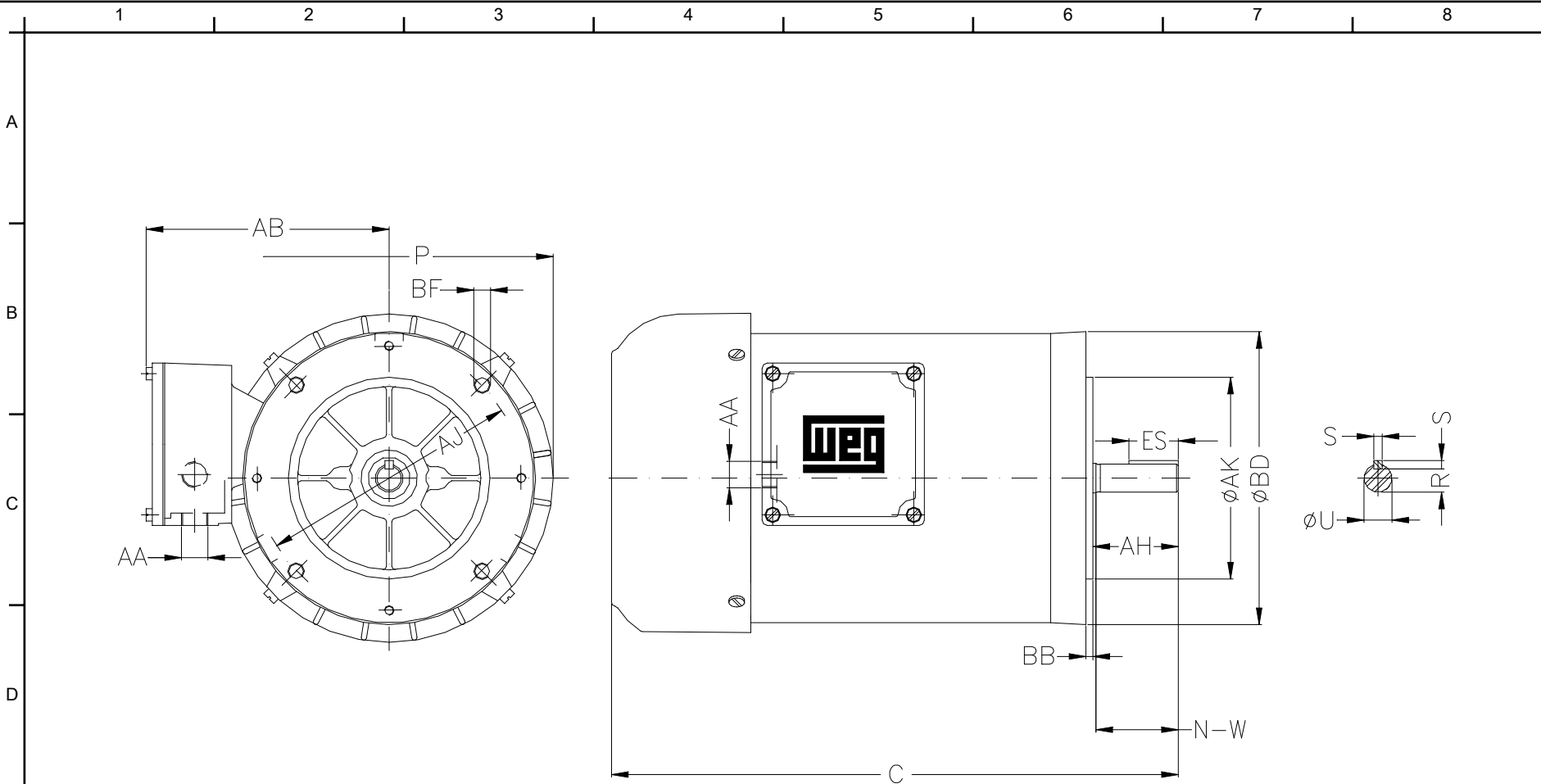
Customer :  
Product line : Three-Phase : NEMA 56 Frames - TEFC

Frame	: D56	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 8.5
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15 (1.00 at 208V)
Full load speed	: 1750 rpm	Design	: A
Voltage	: 208-230/460 V	Locked rotor torque	: 310 %
Rated current	: 4.80-4.60/2.30 A	Breakdown torque	: 350 %
Insulation class	: F		

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Customer:

Three-Phase : NEMA 56 Frames - TEFC

C	P	S	ES	R
12.283	7.323	0.187	1.102	0.517
N-W	U	AB	AA	Flange
1.874	0.6250	5.433	2XNPT 1/2"	FC-149
AJ	AK	BD	BF	BB
5.874	4.500	6.535	UNC 3/8"x16-2B	0.157
BC	AH			
---	2.063			

Three-phase induction motor  
 Frame D56 - IP55

12-SEP-2016



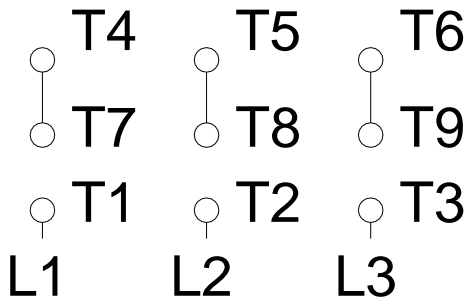
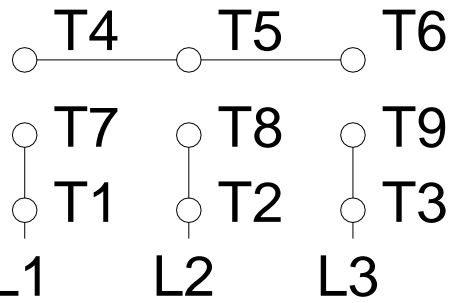
1 2 3 4 5 6 7 8

A

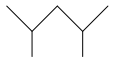
### LOW VOLTAGE

### HIGH VOLTAGE

B



C



D

E

F

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Customer:		
Three-Phase : NEMA 56 Frames - TEFC		
Three-phase induction motor Frame D56 - IP55	12-SEP-2016	