



Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase : Explosion Proof - NEMA Premium

Catalog Number : 00118XT3E143TC

List Price : \$1,054

Notes:

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# Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

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

Customer :  
 Product line : Three-Phase : Explosion Proof - NEMA Premium

Frame : 143T  
 Output : 1 HP  
 Frequency : 60 Hz  
 Poles : 4  
 Full load speed : 1765 rpm  
 Slip : 1.94 %  
 Voltage : 208-230/460 V  
 Rated current : 3.16-2.86/1.43 A  
 Locked rotor current : 24.6/12.3 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 8.6  
 No-load current : 1.87/0.935 A  
 Full load torque : 2.94 lb.ft  
 Locked rotor torque : 290 %  
 Breakdown torque : 400 %  
 Design : B  
 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 : 62 lb  
 Moment of inertia : 0.09753 sq.ft.lb  
 Noise level : 51 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6205 2RS	6204 2RS	100%	0.77	85.5
Regreasing interval	---	---	75%	0.70	82.5
Grease amount	---	---	50%	0.57	80.0

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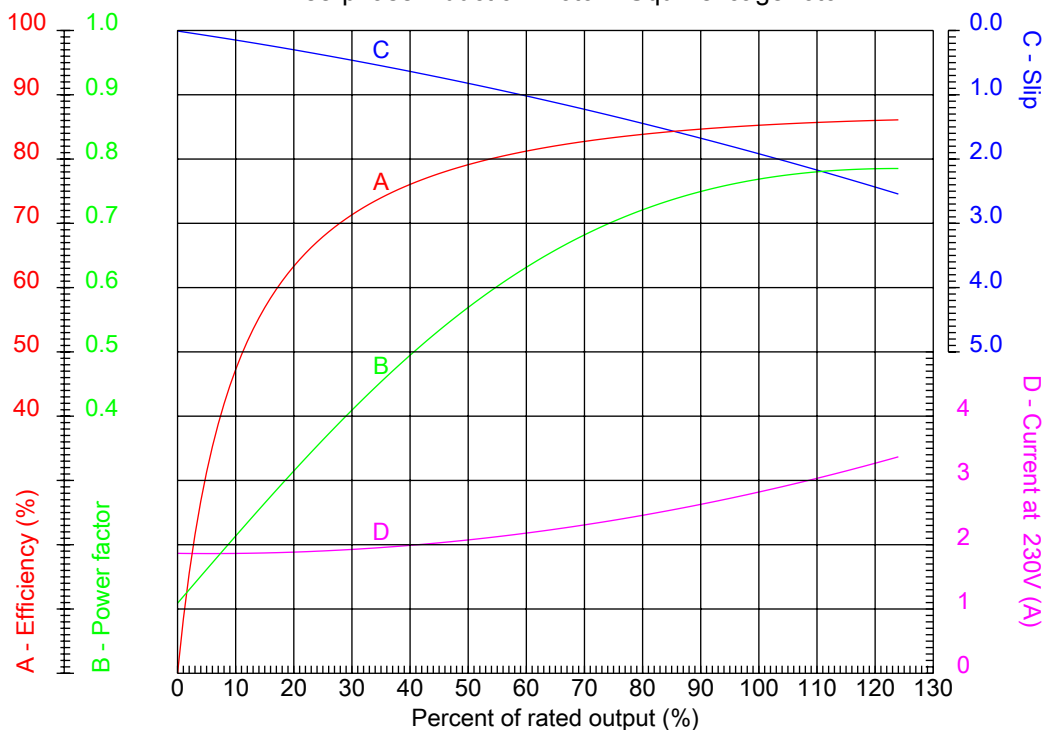
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Three-Phase : Explosion Proof - NEMA Premium

Frame	: 143T	Locked rotor current (I <sub>L</sub> /I <sub>n</sub> )	: 8.6
Output	: 1 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1765 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 290 %
Rated current	: 3.16-2.86/1.43 A	Breakdown torque	: 400 %
Insulation class	: F		

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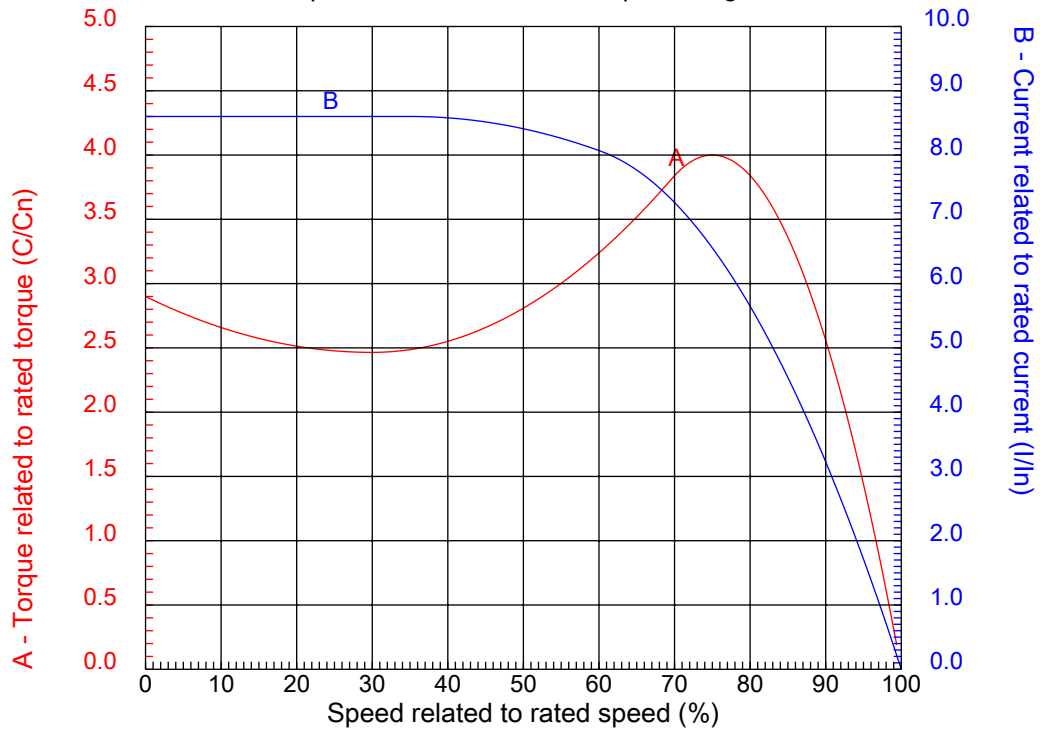
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Three-Phase : Explosion Proof - NEMA Premium

Frame	: 143T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 8.6
Output	: 1 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1765 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 290 %
Rated current	: 3.16-2.86/1.43 A	Breakdown torque	: 400 %
Insulation class	: F		

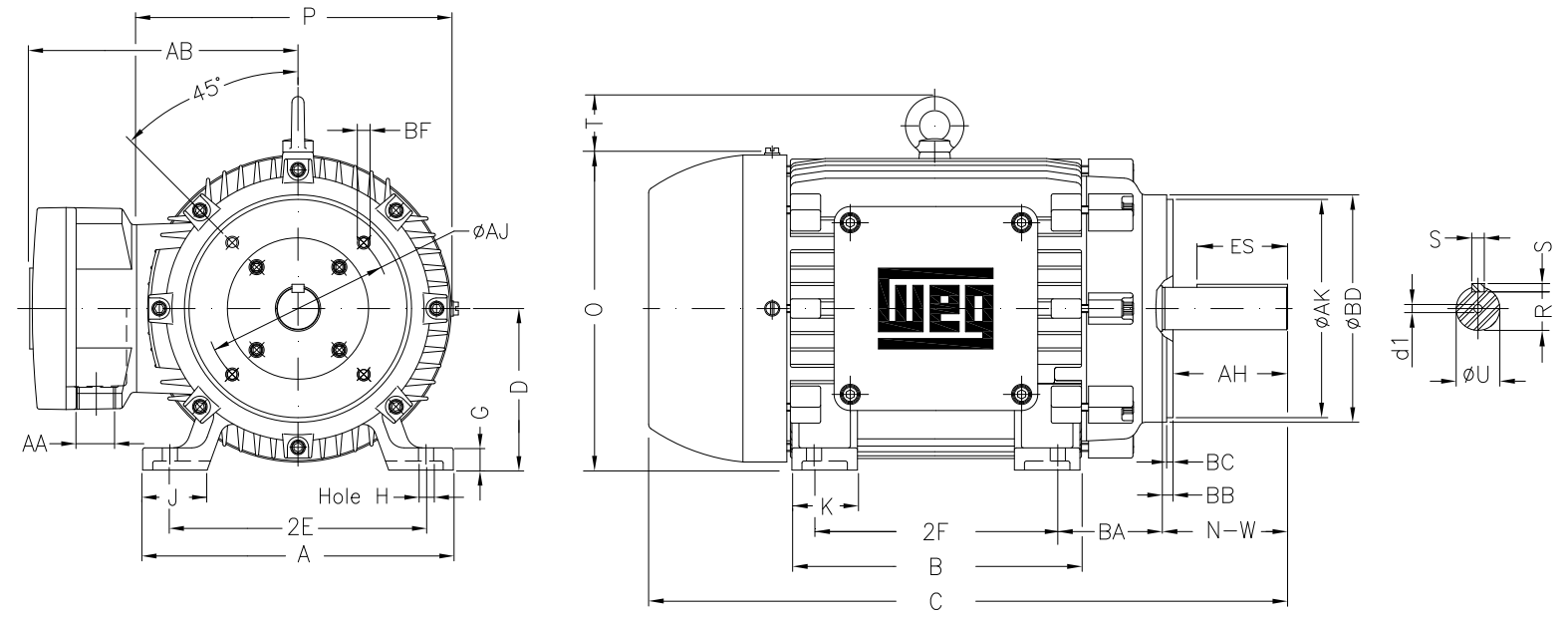
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1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F



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2E 5.500	A 6.457	2F 4.000	B 5.157	BA 2.250
J 1.496	K 1.654	P 7.000	ES 1.575	depth 0.187
S 0.187	N-W 2.250	U 0.875	R 0.771	AB 6.811
D 3.500	G 0.429	O 7.000	T 0.000	H 0.344
C 12.760	AA NPT 3/4"	d1 A 4	d2 A 4	Flange FC-149
AJ 5.875	AK 4.500	BD 6.500	BF UNC 3/8"x16	BB 0.156
BC 0.125	AH 2.125			

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Customer:

Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor  
Frame 143T - IP55

12-SEP-2016



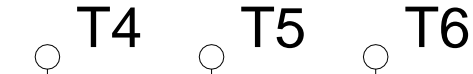
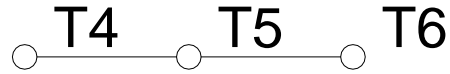
1 2 3 4 5 6 7 8

A

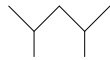
### LOW VOLTAGE

### HIGH VOLTAGE

B



C



D

E

F

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Customer:

Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor  
 Frame 143T - IP55

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