



Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase : Rolled Steel Motor - High Efficiency

Catalog Number : 00112EP3ERSR145TC

List Price : \$>(discontinued)</span>

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 : Rolled Steel Motor - High Efficiency

Frame : 143/5T  
 Output : 1 HP  
 Frequency : 60 Hz  
 Poles : 6  
 Full load speed : 1160 rpm  
 Slip : 3.33 %  
 Voltage : 208-230/460 V  
 Rated current : 3.65-3.65/1.83 A  
 Locked rotor current : 20.4/10.2 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 5.6  
 No-load current : 2.65/1.33 A  
 Full load torque : 4.47 lb.ft  
 Locked rotor torque : 250 %  
 Breakdown torque : 300 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 15 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 : 41 lb  
 Moment of inertia : 0.17679 sq.ft.lb  
 Noise level : ---

	D.E.	N.D.E.
Bearings	6205 ZZ	6203 ZZ
Regreasing interval	---	---
Grease amount	---	---

Load	Power factor	Efficiency (%)
100%	0.64	80.0
75%	0.55	80.0
50%	0.43	77.0

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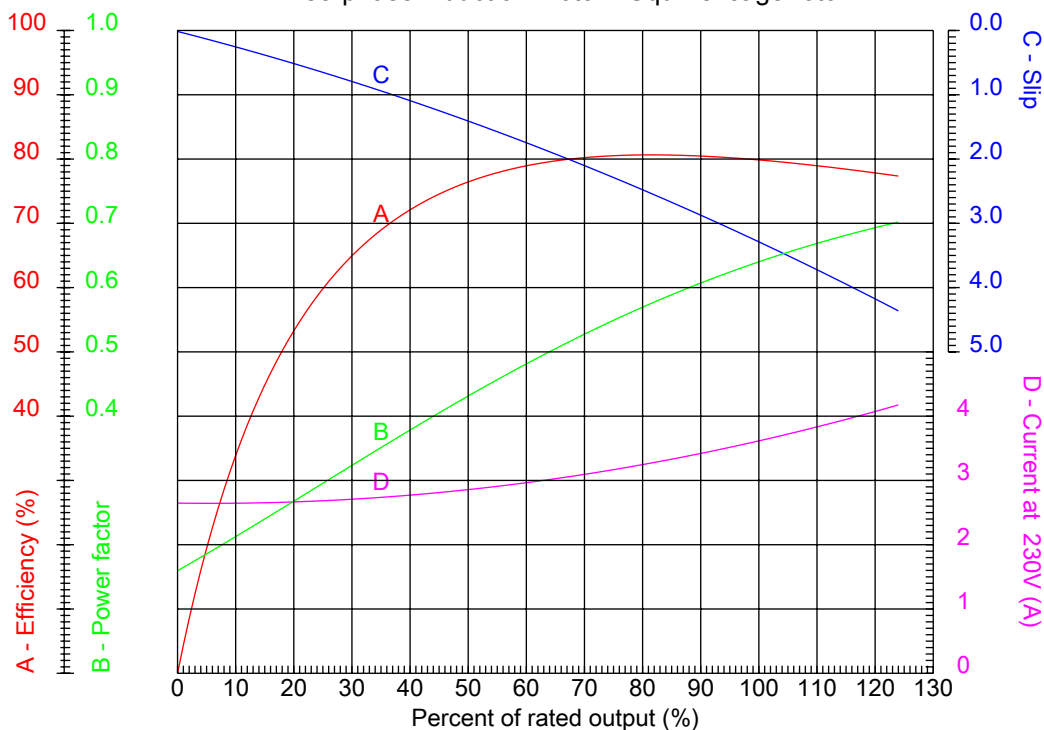
# Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
 Product line : Three-Phase : Rolled Steel Motor - High Efficiency

Frame	: 143/5T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 5.6
Output	: 1 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15 (1.00 at 208V)
Full load speed	: 1160 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 250 %
Rated current	: 3.65-3.65/1.83 A	Breakdown torque	: 300 %
Insulation class	: F		

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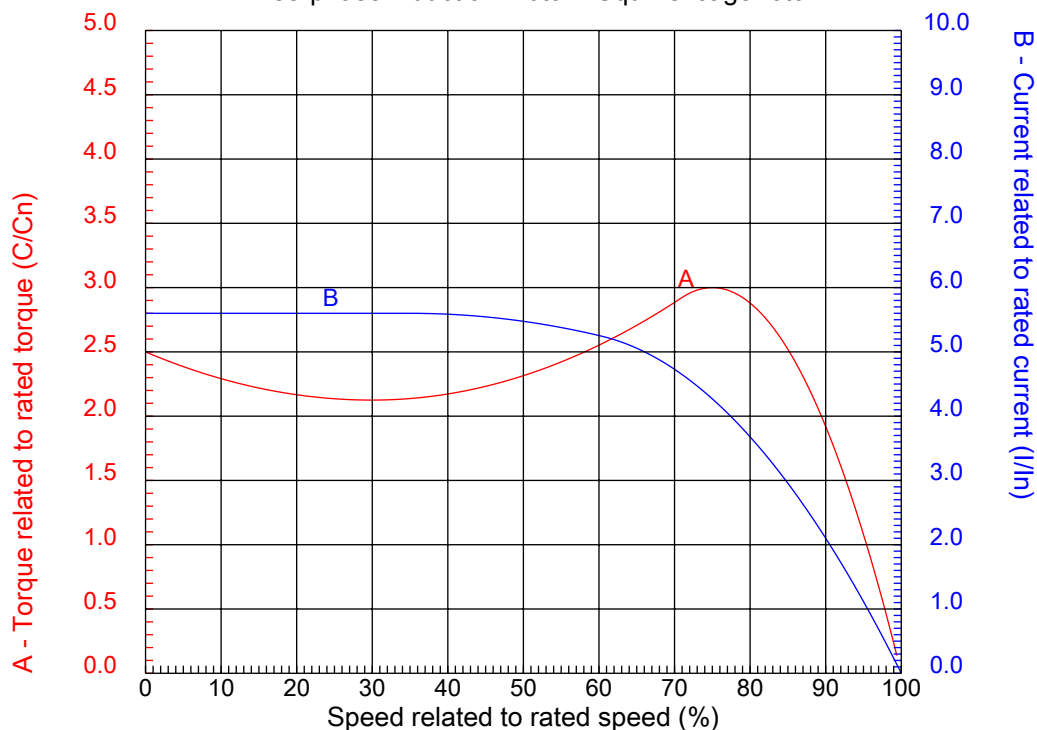
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



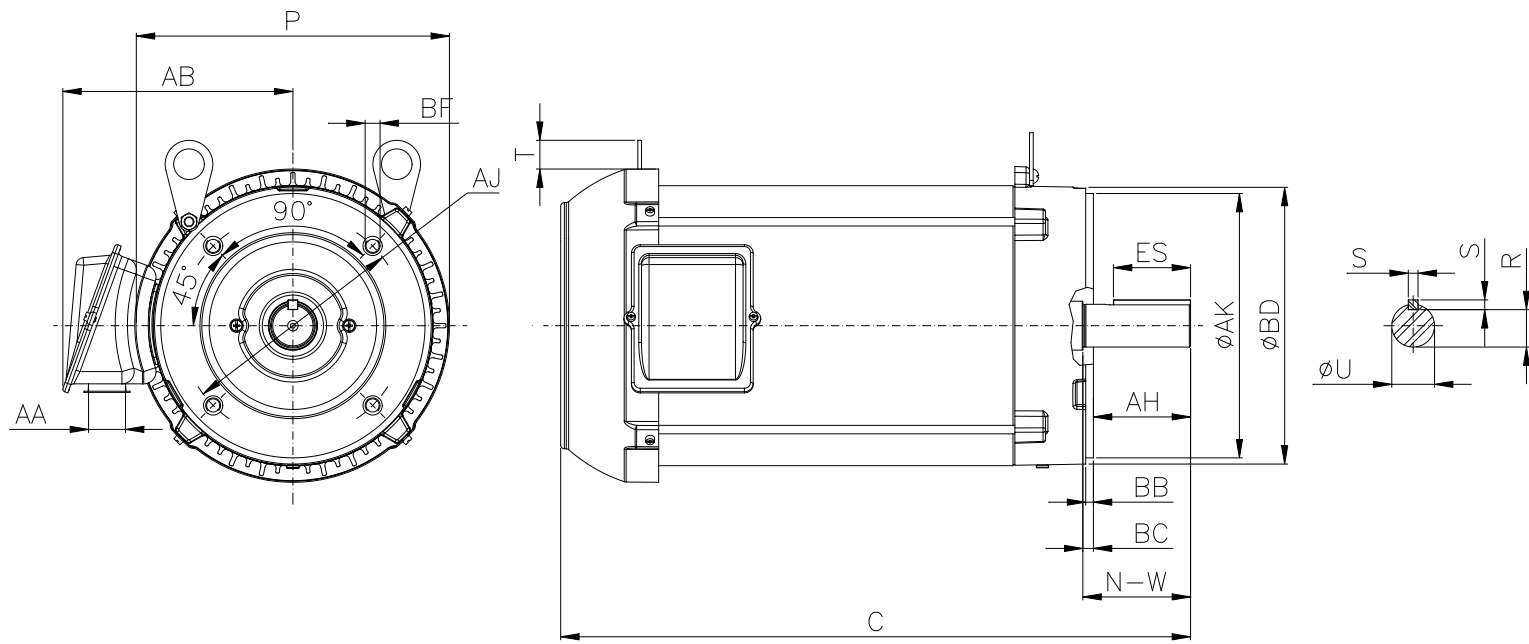
Customer :  
Product line : Three-Phase : Rolled Steel Motor - High Efficiency

Frame	: 143/5T	Locked rotor current (I/I <sub>n</sub> )	: 5.6
Output	: 1 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15 (1.00 at 208V)
Full load speed	: 1160 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 250 %
Rated current	: 3.65-3.65/1.83 A	Breakdown torque	: 300 %
Insulation class	: F		

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Customer:

Three-Phase : Rolled Steel Motor - High Efficiency

P	U	N-W	ES	S
7.323	0.8750	2.250	1.417	0.187
R	depth	C	FC	d1
0.766	0.187	14.095	7.874	A 4
d2	Flange	AJ	AK	BD
DM6	FC-149	5.875	4.500	6.535
BF	BB	BC		
UNC 3/8"x16	0.157	9		

Three-phase induction motor  
 Frame 143/5T - IP55

12-SEP-2016



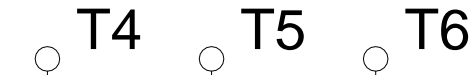
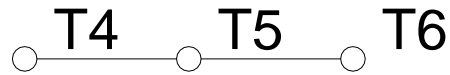
1 2 3 4 5 6 7 8

A

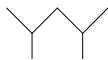
### LOW VOLTAGE

### HIGH VOLTAGE

B



C



D

E

F

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Customer:

Three-Phase : Rolled Steel Motor - High Efficiency

Three-phase induction motor  
 Frame 143/5T - IP55

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