



# Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

Customer :

## TECHNICAL PROPOSAL

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

Product line : Three-Phase : Rolled Steel Motor - NEMA Premium Efficiency

Catalog Number : 01518ET3ERSR254TC

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

#### Notes:

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# Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

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

Customer :  
 Product line : Three-Phase : Rolled Steel Motor - NEMA Premium Efficiency

Frame : 254T  
 Output : 15 HP  
 Frequency : 60 Hz  
 Poles : 4  
 Full load speed : 1765 rpm  
 Slip : 1.94 %  
 Voltage : 208-230/460 V  
 Rated current : 39.8-36.0/18.0 A  
 Locked rotor current : 248/124 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.9  
 No-load current : 16.0/8.00 A  
 Full load torque : 44.0 lb.ft  
 Locked rotor torque : 250 %  
 Breakdown torque : 250 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 33 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP55  
 Approximate weight : 232 lb  
 Moment of inertia : 2.6198 sq.ft.lb  
 Noise level : ---

	D.E.	N.D.E.
Bearings	6309 ZZ	6209 ZZ
Regreasing interval	---	---
Grease amount	---	---

Load	Power factor	Efficiency (%)
100%	0.83	92.4
75%	0.77	92.4
50%	0.67	91.5

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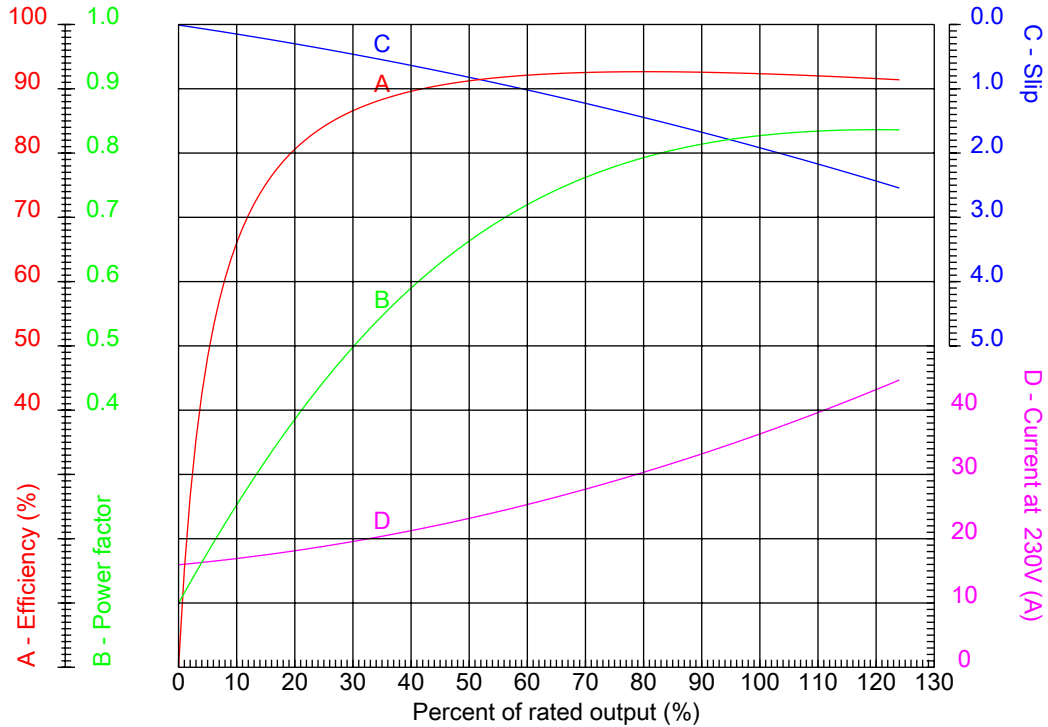
# Dealers Industrial Equipment

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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Three-Phase : Rolled Steel Motor - NEMA Premium Efficiency

Frame : 254T	Locked rotor current (I <sub>L</sub> /I <sub>n</sub> ) : 6.9
Output : 15 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 : 250 %
Rated current : 39.8-36.0/18.0 A	Breakdown torque : 250 %
Insulation class : F	

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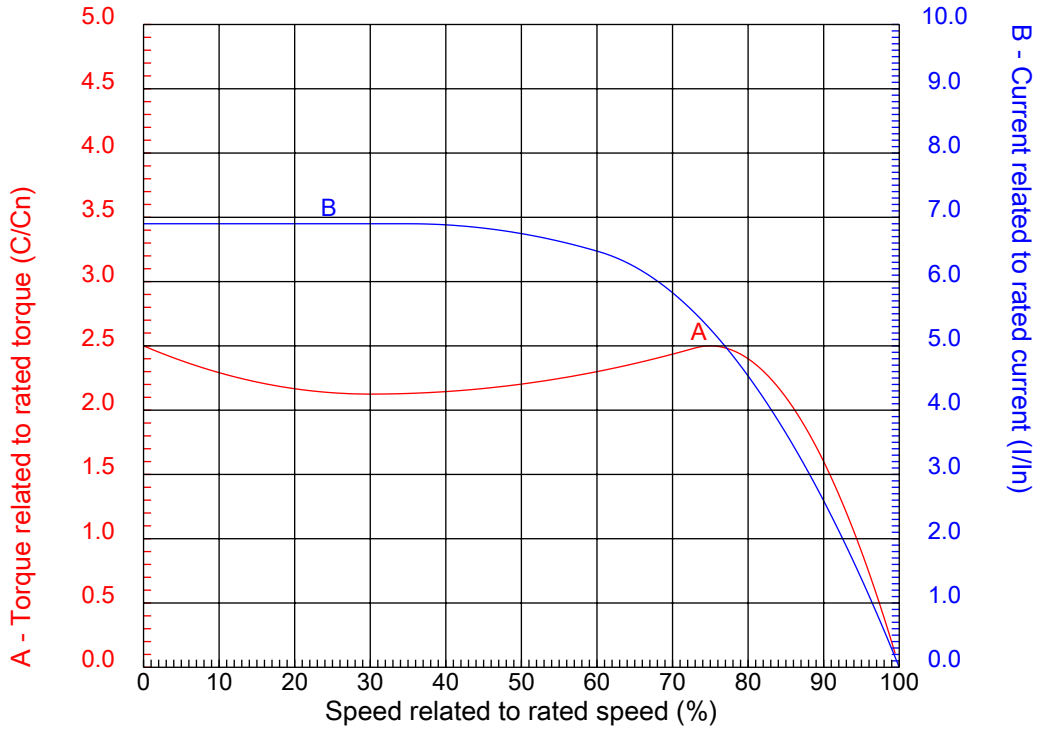
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



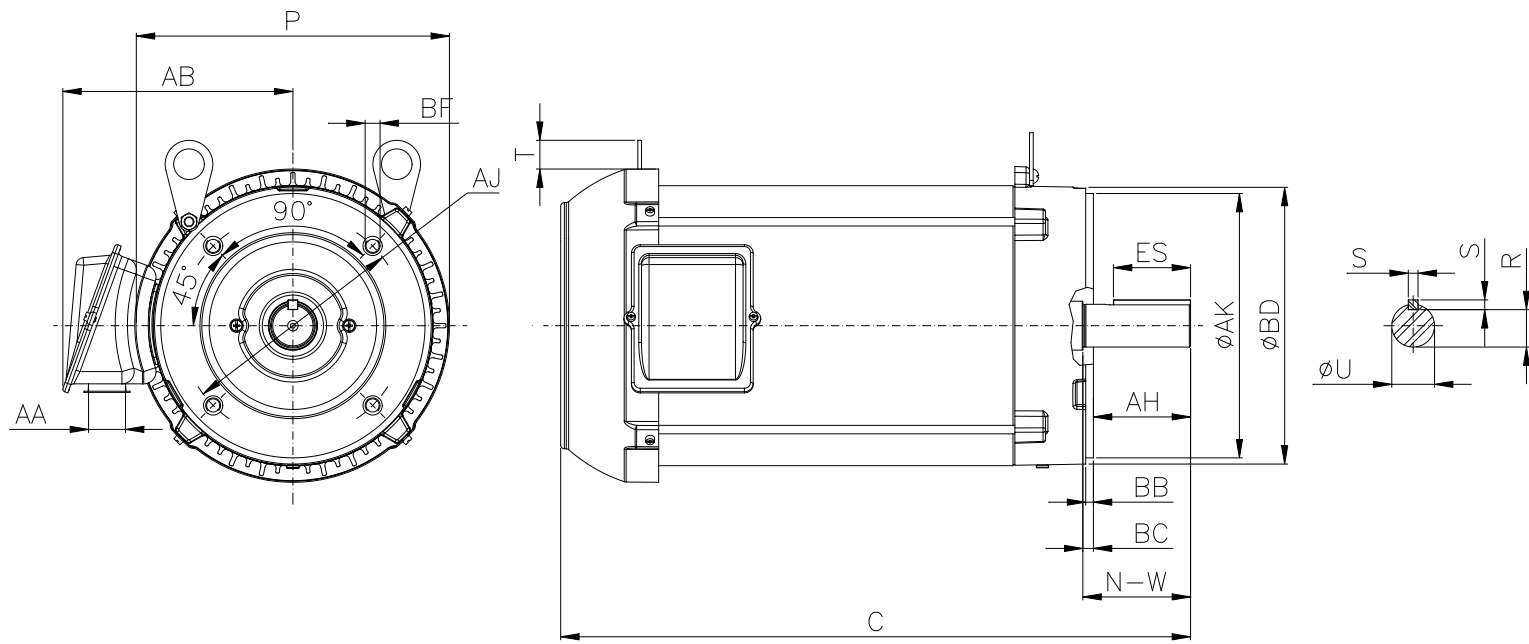
Customer :  
Product line : Three-Phase : Rolled Steel Motor - NEMA Premium Efficiency

Frame	: 254T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.9
Output	: 15 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	: 250 %
Rated current	: 39.8-36.0/18.0 A	Breakdown torque	: 250 %
Insulation class	: F		

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Customer:

Three-Phase : Rolled Steel Motor - NEMA Premium Efficiency

P	AB	U	N-W	ES
11.181	7.819	1.625	4.000	2.756
S	R	depth	C	d1
0.375	1.416	0.375	24.925	A 4
d2	Flange	AJ	AK	BD
A 4	FC-184	7.250	8.500	8.875
BF	BB	BC	AH	
UNC 1/2"x13	0.250	0.250	3.750	

Three-phase induction motor  
 Frame 254T - IP55

23-SEP-2016



1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F

LOW VOLTAGE

HIGH VOLTAGE



CONNECTIONS FOR STARTING ONLY:

LOW VOLTAGE

HIGH VOLTAGE



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Customer:

Three-Phase : Rolled Steel Motor - NEMA Premium Efficiency

Three-phase induction motor  
Frame 254T - IP55

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