



No.:

Date: 17-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 00152ET3ERS182T

List Price : \$656

Notes:

Performed by:

Checked:



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## DATA SHEET

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

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

Frame : 182T  
Output : 1.5 HP  
Frequency : 60 Hz  
Poles : 6  
Full load speed : 1165  
Slip : 2.92 %  
Voltage : 208-230/460 V  
Rated current : 5.28-4.78/2.39 A  
Locked rotor current : 38.2/19.1 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 8.0  
No-load current : 3.25/1.63 A  
Full load torque : 6.67 lb.ft  
Locked rotor torque : 320 %  
Breakdown torque : 400 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 16 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 71 lb  
Moment of inertia : 0.48789 sq.ft.lb  
Noise level : ---

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6206 ZZ	6206 ZZ	100%	0.66	87.5
Regreasing interval	---	---	75%	0.56	86.5
Grease amount	---	---	50%	0.45	84.0

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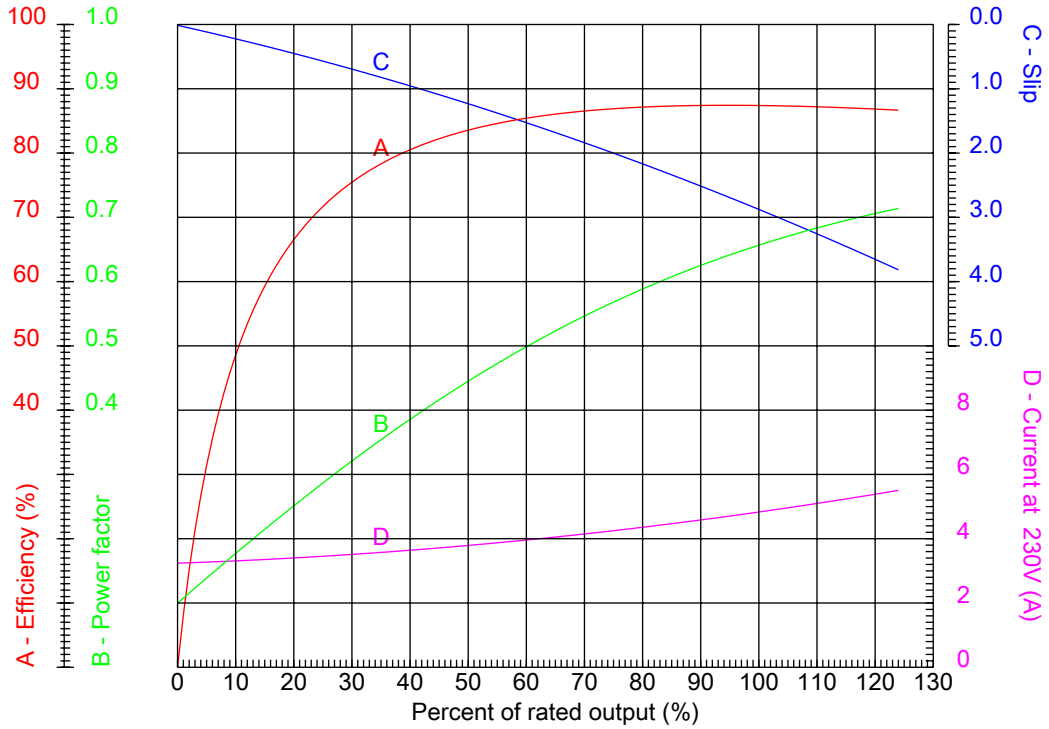


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 182T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 8.0
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1165	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 320 %
Rated current	: 5.28-4.78/2.39 A	Breakdown torque	: 400 %
Insulation class	: F		

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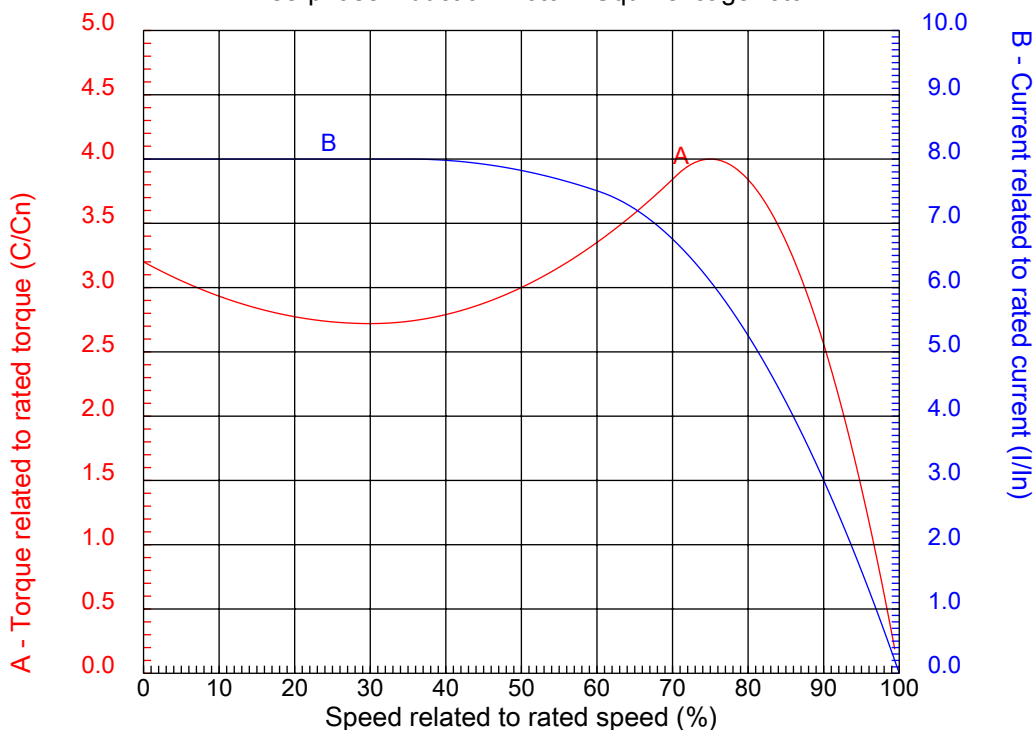


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 182T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 8.0
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1165	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 320 %
Rated current	: 5.28-4.78/2.39 A	Breakdown torque	: 400 %
Insulation class	: F		

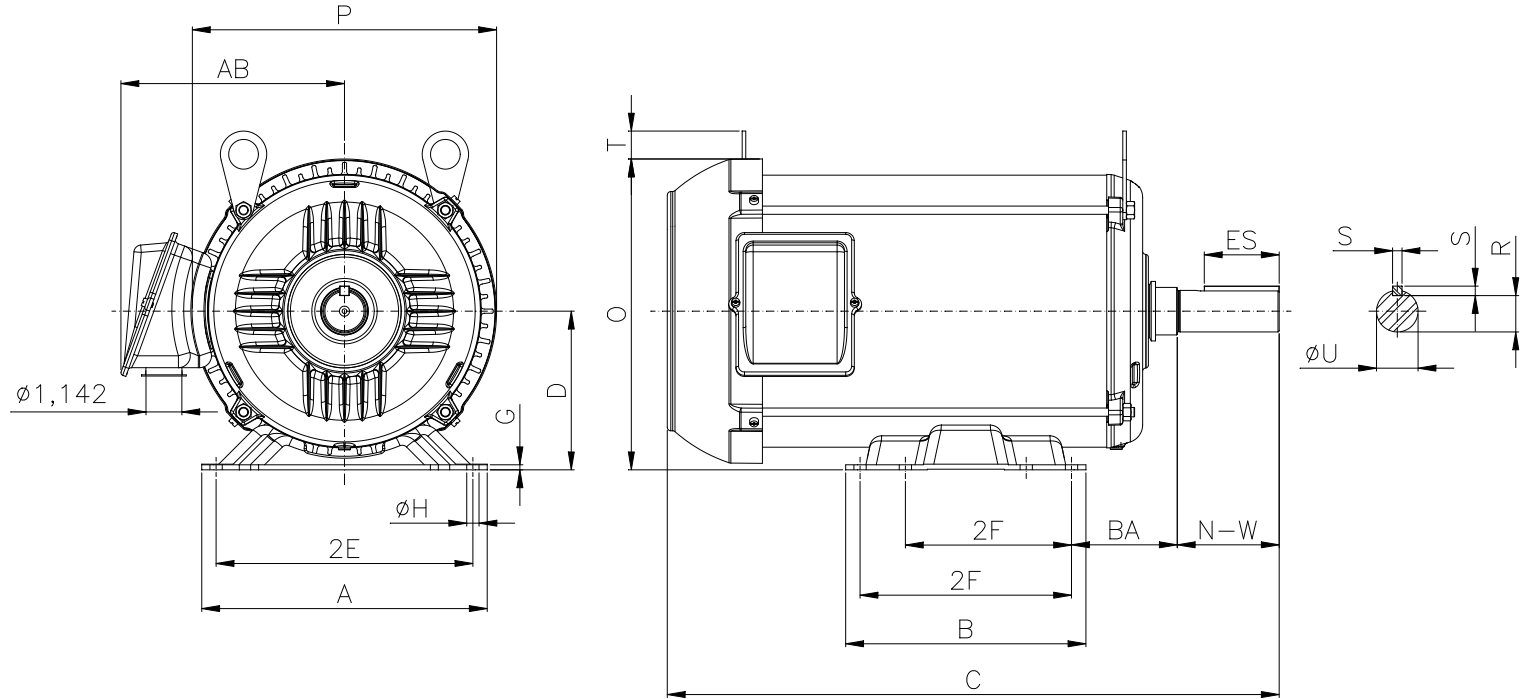
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1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F



Notes:

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Checked:

Customer:

Three-Phase : Rolled Steel Motor - NEMA Premium Efficiency

2E 7.500	A 8.661	P 8.694	AB 6.353	2F 4.500/5.500
B 6.299	BA 2.750	U 1.125	N-W 2.750	ES 1.969
S 0.250	R 0.984	depth 0.250	D 4.500	G 0.167
O 8.847	T 0.9020000000000001	H 0.406	C 16.404	d1 A 4
d2 A 4	Flange FD-254	AJ 10.000	AK 9.000	BD 11.000
BF 0.562	BB 0.203			

Three-phase induction motor  
Frame 182T - IP55

17-DEC-2012

