



No.:

Date: 19-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase : ODP (IP21/IP23) - NEMA Premium Efficiency

Catalog Number : 00156OT3H143T

List Price : \$442

Notes:

Performed by:

Checked:



No.:

Date: 19-DEC-2012

## DATA SHEET

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

Customer :  
 Product line : Three-Phase : ODP (IP21/IP23) - NEMA Premium Efficiency

Frame : E143/5T  
 Output : 1.5 HP  
 Frequency : 60 Hz  
 Poles : 2  
 Full load speed : 3430  
 Slip : 4.72 %  
 Voltage : 575 V  
 Rated current : 1.52 A  
 Locked rotor current : 13.7 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 9.0  
 No-load current : 0.800 A  
 Full load torque : 2.27 lb.ft  
 Locked rotor torque : 400 %  
 Breakdown torque : 350 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 15 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000  
 Degree of Protection : IP21  
 Approximate weight : 38 lb  
 Moment of inertia : 0.05126 sq.ft.lb  
 Noise level : ---

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6205 ZZ	6204 ZZ	100%	0.87	85.5
Regreasing interval	---	---	75%	0.80	85.5
Grease amount	---	---	50%	0.70	82.5

Notes:

Performed by

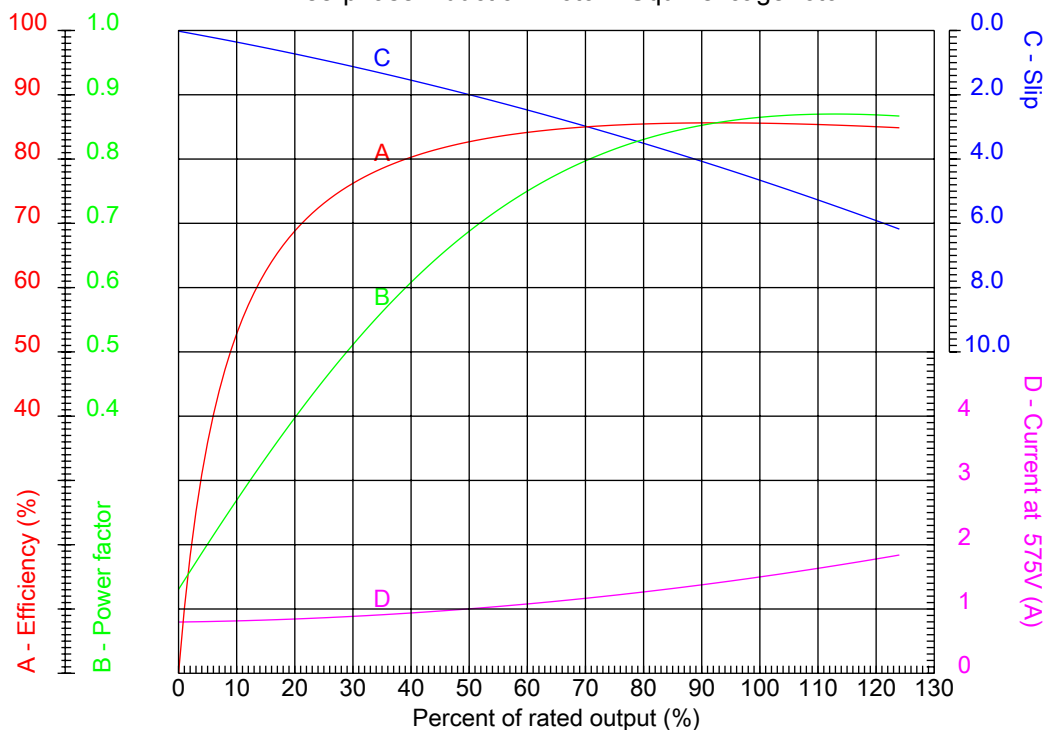
Checked



No.:

Date: 19-DEC-2012

PERFORMANCE CURVES RELATED TO RATED OUTPUT  
Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Three-Phase : ODP (IP21/IP23) - NEMA Premium Efficiency

Frame	: E143/5T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 9.0
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3430	Design	: B
Voltage	: 575 V	Locked rotor torque	: 400 %
Rated current	: 1.52 A	Breakdown torque	: 350 %
Insulation class	: F		

Notes:

Performed by

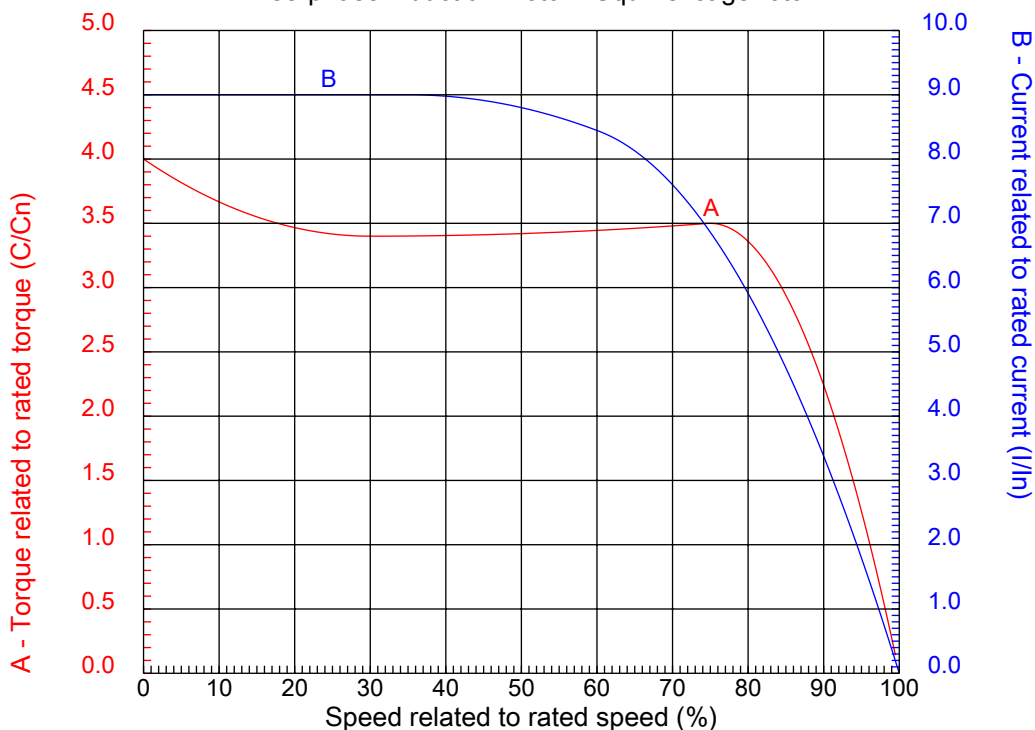
Checked



No.:

Date: 19-DEC-2012

### CHARACTERISTIC CURVES RELATED TO SPEED Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Three-Phase : ODP (IP21/IP23) - NEMA Premium Efficiency

Frame	: E143/5T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 9.0
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3430	Design	: B
Voltage	: 575 V	Locked rotor torque	: 400 %
Rated current	: 1.52 A	Breakdown torque	: 350 %
Insulation class	: F		

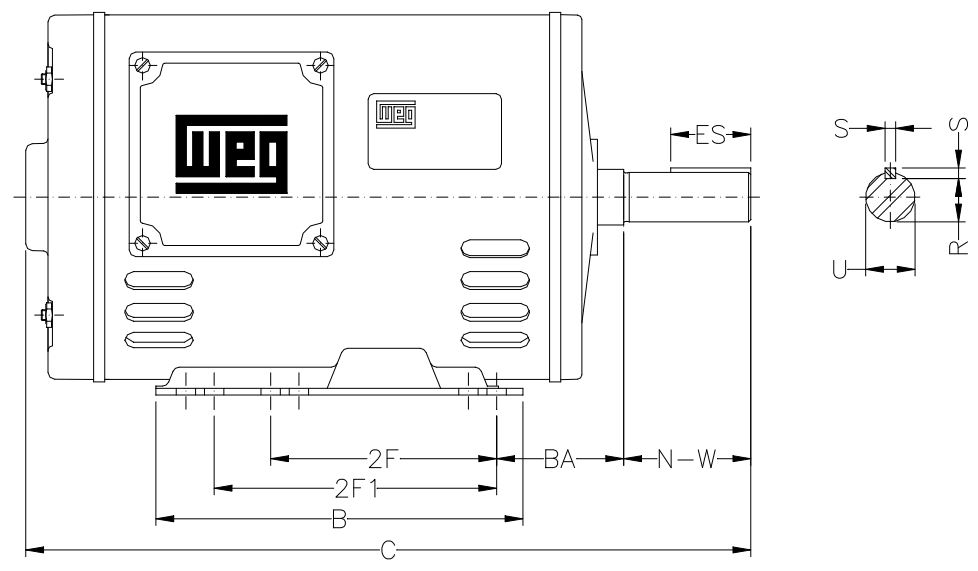
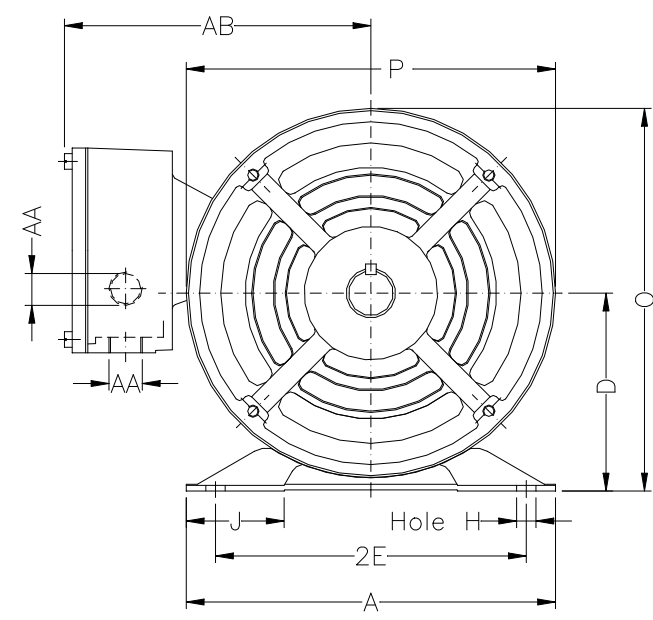
Notes:

Performed by

Checked

1      2      3      4      5      6      7      8

A  
B  
C  
D  
E  
F



Notes:

Performed by:

Checked:

Customer:

Three-Phase : ODP (IP21/IP23) - NEMA Premium Efficiency

Three-phase induction motor

Frame E143/5T - IP21

19-DEC-2012



2E 5.500	A 6.535	2F 4.000/5.000	B 6.496	BA 2.250
J 1.732	K 1.988	P 6.535	ES 1.417	depth 0.187
S 0.187	D 3.500	N-W 2.250	G 0.120	U 0.8750
O 6.772	T 653.228	HD 660	R 0.766	H 0.342
C 12.047	AA 2XNPT 1/2"	Flange C	AJ 5.874	AK 4.500
BD 6.535	BF UNC 3/8"x16	BB 0.157	BC ---	AH