



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 : 00218XT3H145TC

List Price : \$1,148

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 : 145T
 Output : 2 HP
 Frequency : 60 Hz
 Poles : 4
 Full load speed : 1750 rpm
 Slip : 2.78 %
 Voltage : 575 V
 Rated current : 2.18 A
 Locked rotor current : 17.2 A
 Locked rotor current (I_L/I_n) : 7.9
 No-load current : 1.20 A
 Full load torque : 5.92 lb.ft
 Locked rotor torque : 250 %
 Breakdown torque : 320 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 11 s (hot)
 Service factor : 1.15
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP55
 Approximate weight : 73 lb
 Moment of inertia : 0.15947 sq.ft.lb
 Noise level : 51 dB(A)

	D.E.	N.D.E.
Bearings	6205 2RS	6204 2RS
Regreasing interval	---	---
Grease amount	---	---

Load	Power factor	Efficiency (%)
100%	0.80	86.5
75%	0.73	85.5
50%	0.60	84.0

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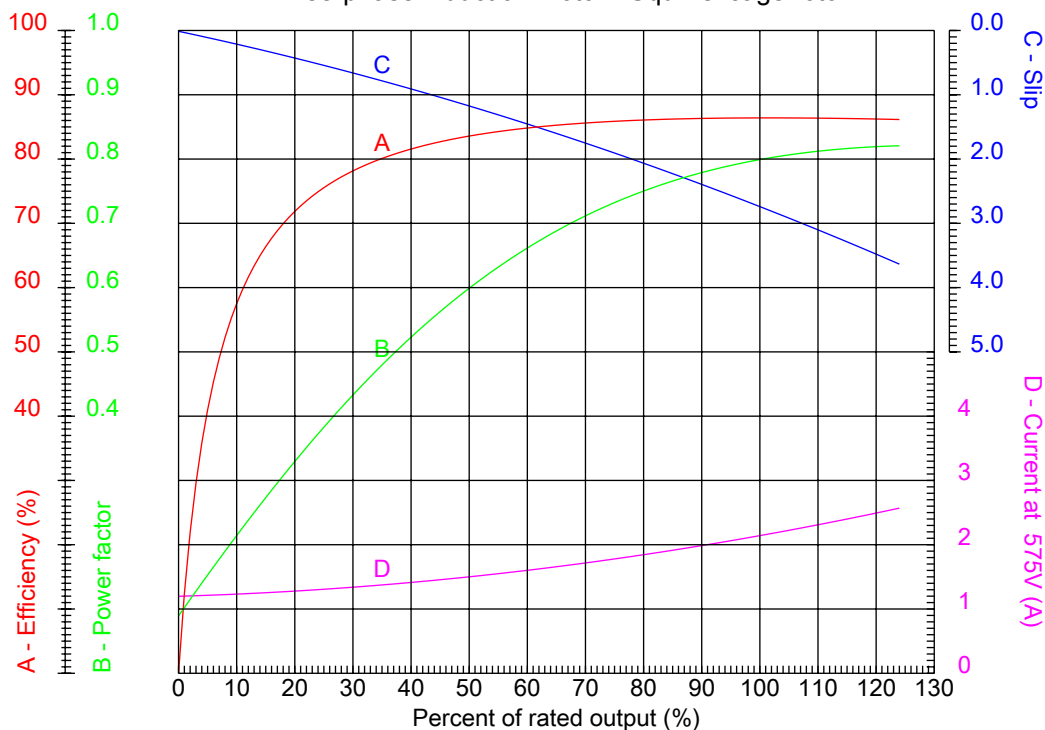
Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame : 145T	Locked rotor current (I _L /I _n) : 7.9
Output : 2 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 1750 rpm	Design : B
Voltage : 575 V	Locked rotor torque : 250 %
Rated current : 2.18 A	Breakdown torque : 320 %
Insulation class : F	

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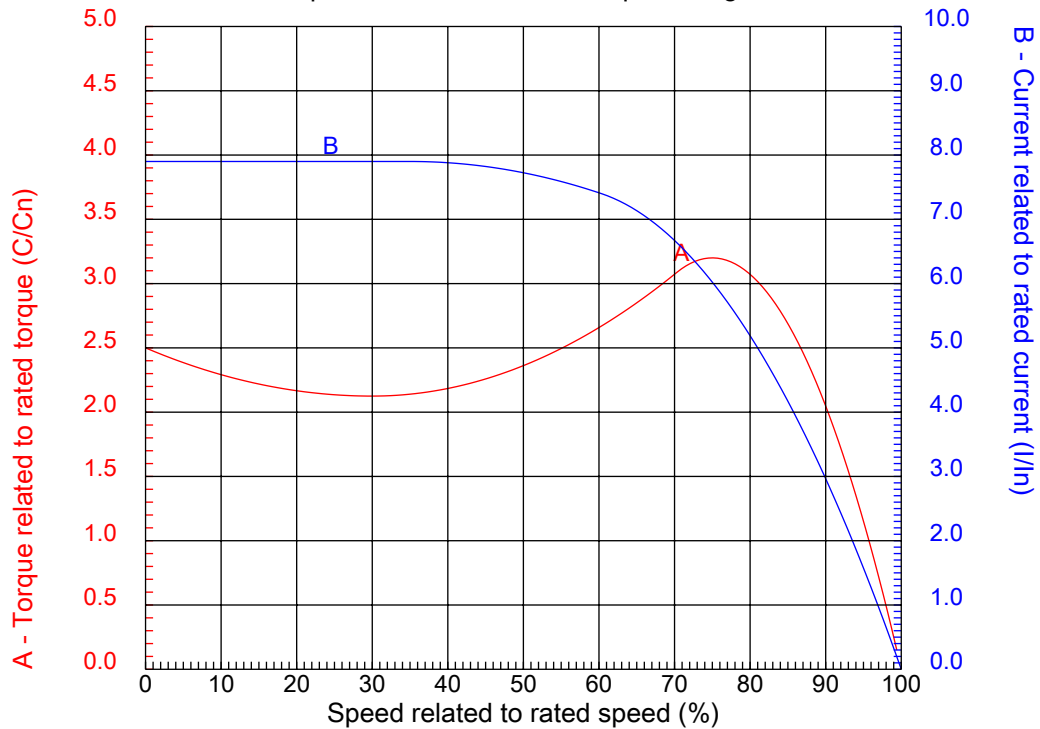
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No.:

Date: 12-SEP-2016

CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 145T	Locked rotor current (I _l /I _n)	: 7.9
Output	: 2 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1750 rpm	Design	: B
Voltage	: 575 V	Locked rotor torque	: 250 %
Rated current	: 2.18 A	Breakdown torque	: 320 %
Insulation class	: F		

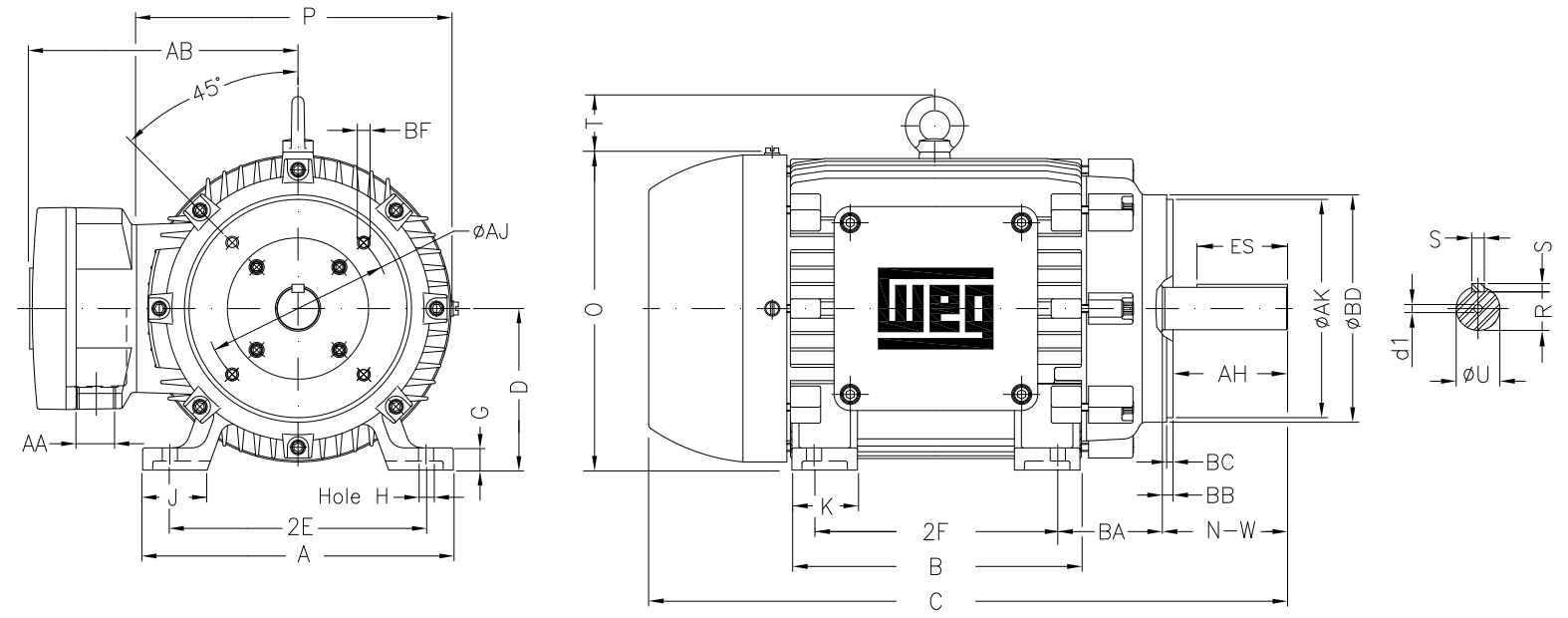
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Performed by

Checked

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 5.000	B 6.142	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 13.752	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			

Performed by:
Checked:
Customer:
Three-Phase : Explosion Proof - NEMA Premium
Three-phase induction motor
Frame 145T - IP55
12-SEP-2016



1 2 3 4 5 6 7 8

A
B
C
D
E
F

RUN



ONLY FOR START



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Performed by:		
Checked:		
Customer:		
Three-Phase : Explosion Proof - NEMA Premium		
Three-phase induction motor Frame 145T - IP55	12-SEP-2016	