



Dealers Industrial Equipment

No.:

Date: 27-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : P-Base Motors : High Efficiency

Catalog Number : 10018EP3G405HP

List Price : \$10,688

Notes:

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Date: 27-SEP-2016

DATA SHEET Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : P-Base Motors : High Efficiency

Frame : 405HP
Output : 100 HP
Frequency : 60 Hz
Poles : 4
Full load speed : 1775 rpm
Slip : 1.39 %
Voltage : 460 V
Rated current : 114 A
Locked rotor current : 718 A
Locked rotor current (I_L/I_n) : 6.3
No-load current : 30.0 A
Full load torque : 292 lb.ft
Locked rotor torque : 210 %
Breakdown torque : 220 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 18 s (hot)
Service factor : 1.25
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000 m
Degree of Protection : IP55
Approximate weight : 1118 lb
Moment of inertia : 27.403 sq.ft.lb
Noise level : 75 dB(A)

	D.E.	N.D.E.
Bearings	6316 C3	6314 C3
Regreasing interval	4284 h	4894 h
Grease amount	34 g	27 g

Load	Power factor	Efficiency (%)
100%	0.87	94.5
75%	0.86	94.5
50%	0.80	93.6

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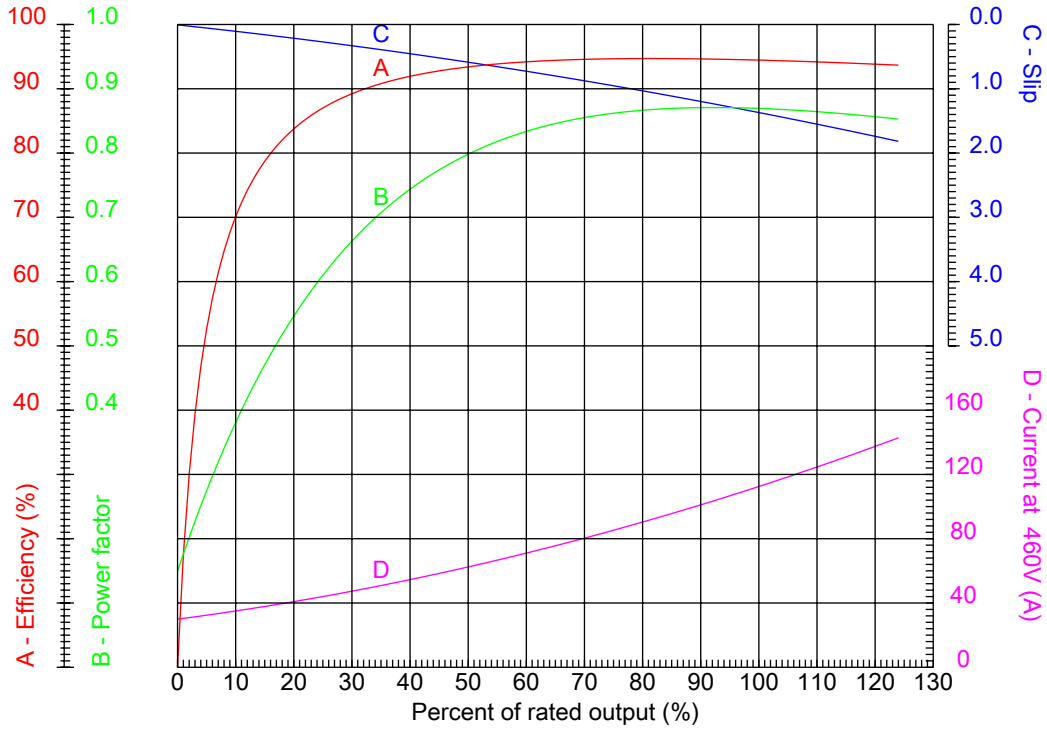
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
 Product line : P-Base Motors : High Efficiency

Frame	: 405HP	Locked rotor current (I _l /I _n)	: 6.3
Output	: 100 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1775 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 210 %
Rated current	: 114 A	Breakdown torque	: 220 %
Insulation class	: F		

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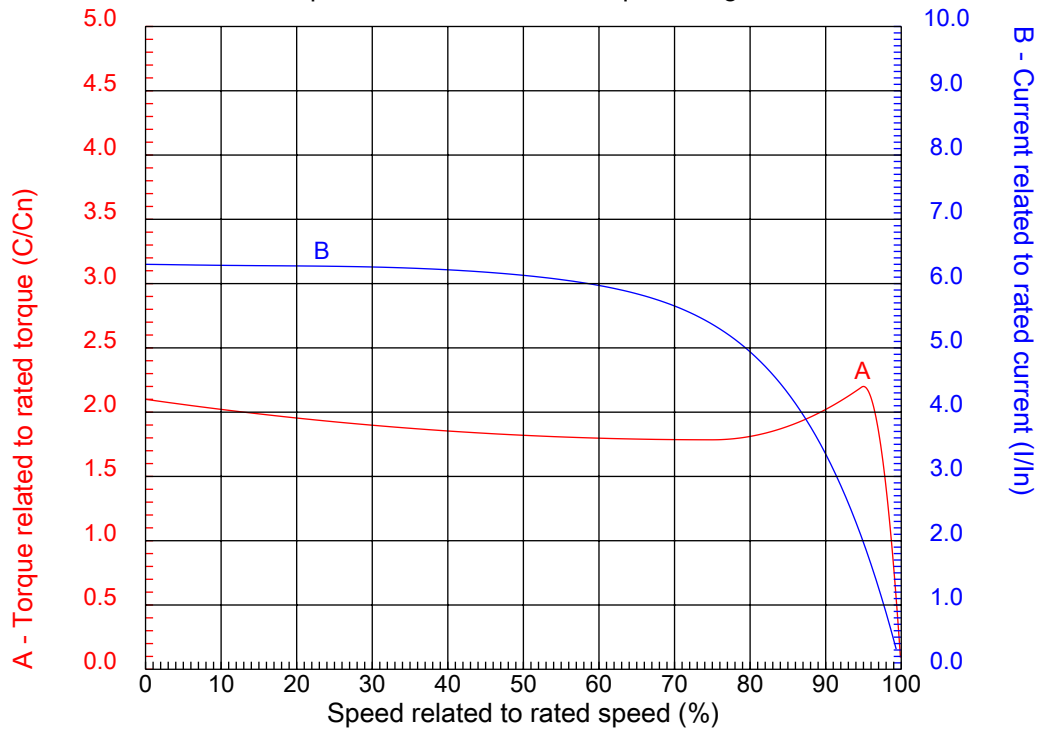
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : P-Base Motors : High Efficiency

Frame	: 405HP	Locked rotor current (I _l /I _n)	: 6.3
Output	: 100 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1775 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 210 %
Rated current	: 114 A	Breakdown torque	: 220 %
Insulation class	: F		

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1 2 3 4 5 6 7 8

A

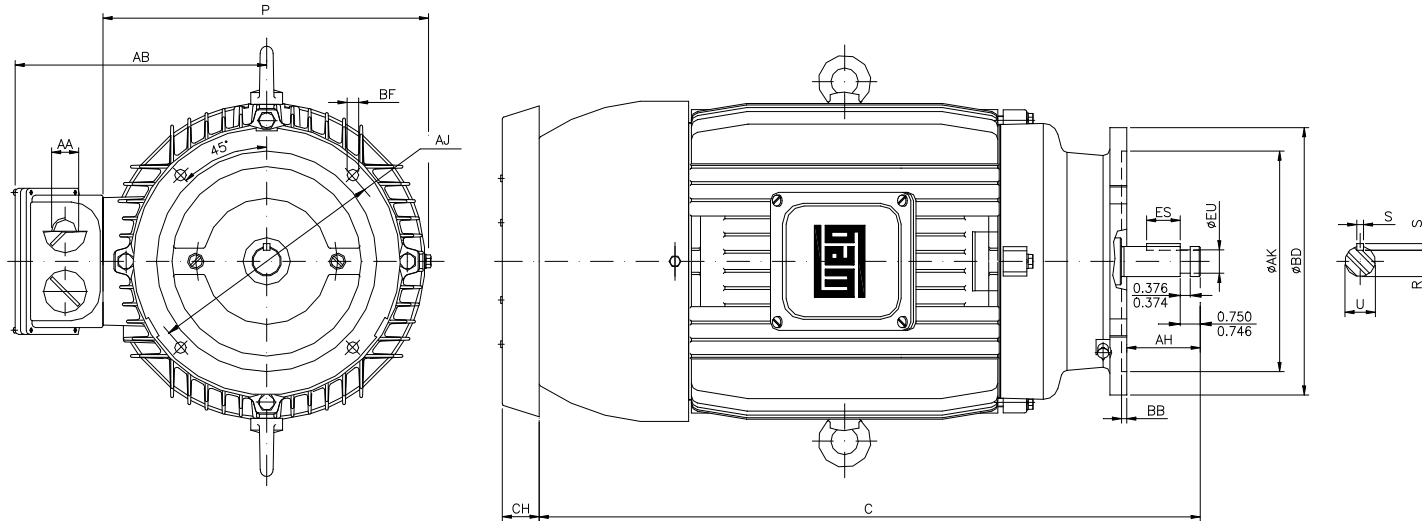
B

C

D

E

F



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Customer:

P-Base Motors : High Efficiency

ES 3.150	S 0.375	EU 1.250	U 1.625	R 1.415
P 18.740	AH 4.500	AB 16.380	C 36.674	CH 3.110
AA NPT 3"	Flange D-254	AJ 14.750	AK 13.500	BD 16.500
BF 0.687	BB 0.250			

Three-phase induction motor
Frame 405HP - IP55

27-SEP-2016



1 2 3 4 5 6 7 8

A

PART-WINDING

WYE-DELTA

START

RUN

START

RUN

B



C

L1 L2 L3

L1 L2 L3

L1 L2 L3

L1 L2 L3

D

E

F

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Customer:

P-Base Motors : High Efficiency

Three-phase induction motor
Frame 405HP - IP55

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