



Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : P-Base Motors : High Efficiency

Catalog Number : 01518EP3E254HP

List Price : \$2,346

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 : P-Base Motors : High Efficiency

Frame : 254HP
Output : 15 HP
Frequency : 60 Hz
Poles : 4
Full load speed : 1760 rpm
Slip : 2.22 %
Voltage : 230/460 V
Rated current : 36.2/18.1 A
Locked rotor current : 232/116 A
Locked rotor current (I_L/I_n) : 6.4
No-load current : 15.6/7.80 A
Full load torque : 44.2 lb.ft
Locked rotor torque : 250 %
Breakdown torque : 250 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 23 s (hot)
Service factor : 1.25
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000 m
Degree of Protection : IP55
Approximate weight : 275 lb
Moment of inertia : 2.1900 sq.ft.lb
Noise level : 69 dB(A)

	D.E.	N.D.E.
Bearings	6311 C3	6209 C3
Regreasing interval	10000 h	10000 h
Grease amount	18 g	9 g

Load	Power factor	Efficiency (%)
100%	0.82	91.0
75%	0.76	91.0
50%	0.66	90.2

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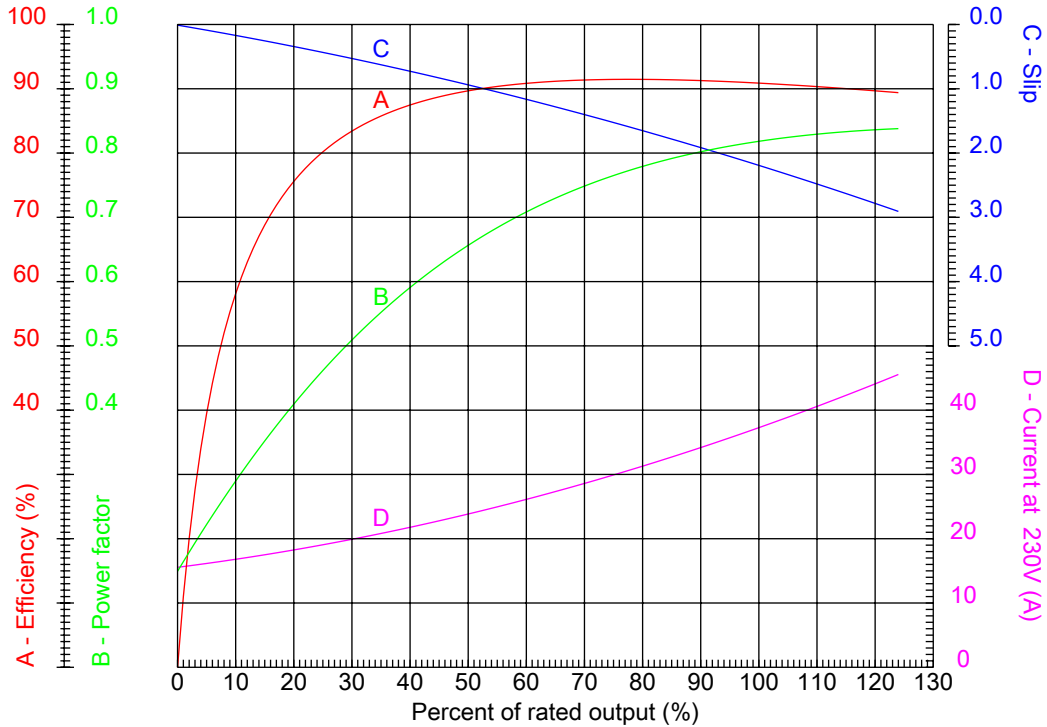
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 254HP	Locked rotor current (I _l /I _n)	: 6.4
Output	: 15 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1760 rpm	Design	: B
Voltage	: 230/460 V	Locked rotor torque	: 250 %
Rated current	: 36.2/18.1 A	Breakdown torque	: 250 %
Insulation class	: F		

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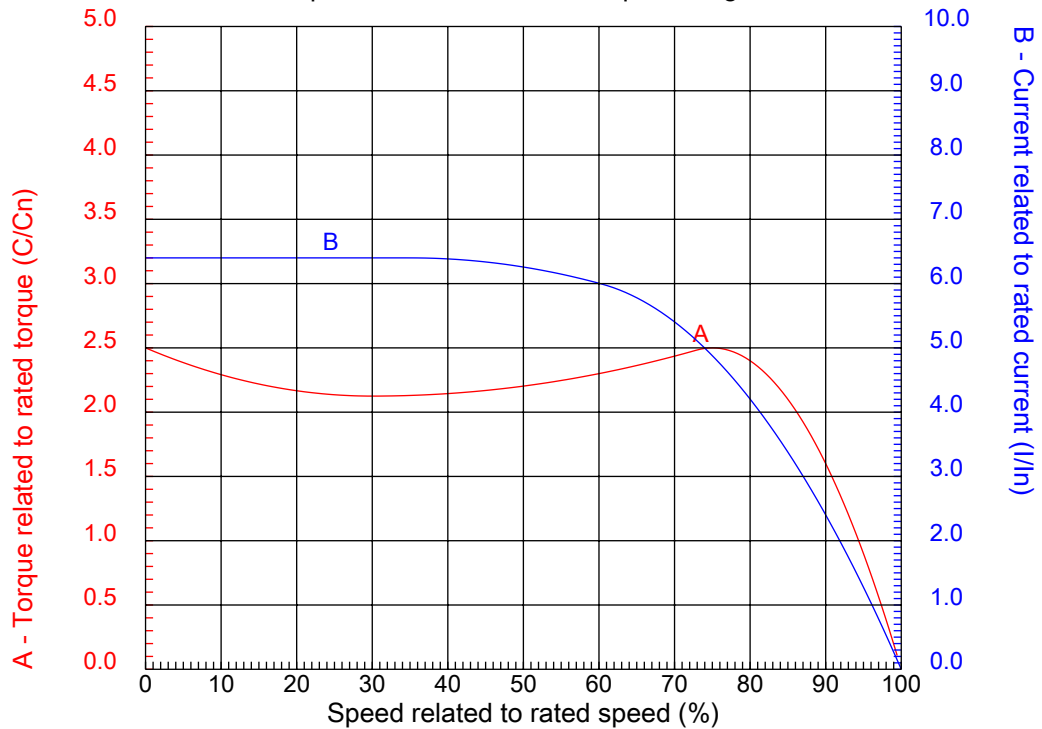
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 254HP	Locked rotor current (I _l /I _n)	: 6.4
Output	: 15 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1760 rpm	Design	: B
Voltage	: 230/460 V	Locked rotor torque	: 250 %
Rated current	: 36.2/18.1 A	Breakdown torque	: 250 %
Insulation class	: F		

Notes:
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1 2 3 4 5 6 7 8

A

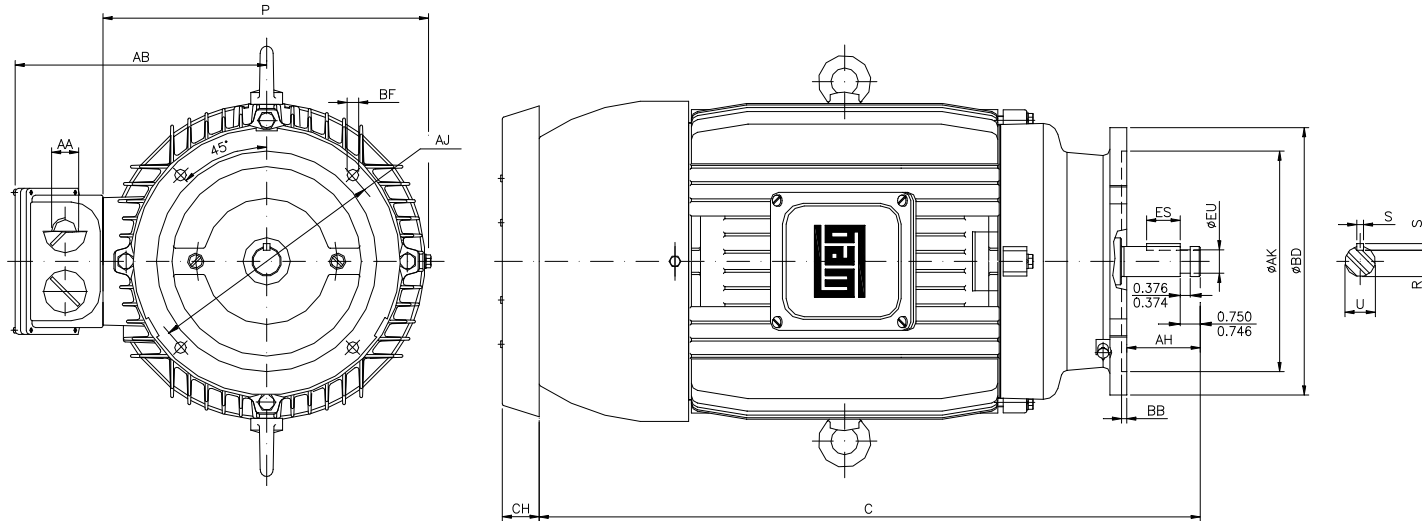
B

C

D

E

F



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Customer:

P-Base Motors : High Efficiency

Three-phase induction motor
Frame 254HP - IP55

23-SEP-2016



ES 1.250	S 0.250	EU 0.875	U 1.125	R 0.984
P 12.283	AH 2.750	AB 10.079	C 23.723	CH 1.850
AA NPT 1 1/2"	Flange D-254	AJ 9.125	AK 8.250	BD 10.000
BF 0.433	BB 0.196			

1 2 3 4 5 6 7 8

A
B
C
D
E
F

LOW VOLTAGE

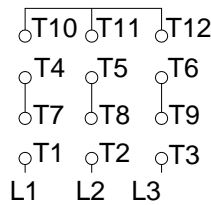
HIGH VOLTAGE



CONNECTIONS FOR STARTING ONLY:

LOW VOLTAGE

HIGH VOLTAGE



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Customer:

P-Base Motors : High Efficiency

Three-phase induction motor
Frame 254HP - IP55

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