



No.:

Date: 28-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Saw Arbor Motors : Single and Double Shaft End

Catalog Number : 00536ES3ESA80ML

List Price : \$1,160

Notes:

Performed by:

Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : Saw Arbor Motors : Single and Double Shaft End

Frame : 80M
Output : 5 HP
Frequency : 60 Hz
Poles : 2
Full load speed : 3470
Slip : 3.61 %
Voltage : 208-230/460 V
Rated current : 14.7-13.3/6.65 A
Locked rotor current : 106/53.2 A
Locked rotor current (I_L/I_n) : 8.0
No-load current : 5.74/2.87 A
Full load torque : 7.47 lb.ft
Locked rotor torque : 340 %
Breakdown torque : 410 %
Design : N
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 7 s (hot)
Service factor : 1.15
Duty cycle : S6 50%
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP54
Approximate weight : 99 lb
Moment of inertia : 0.09777 sq.ft.lb
Noise level : 62 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6307 ZZ	6207 ZZ	100%	0.82	85.0
Regreasing interval	---	---	75%	0.77	84.5
Grease amount	---	---	50%	0.66	82.0

Notes:

Performed by

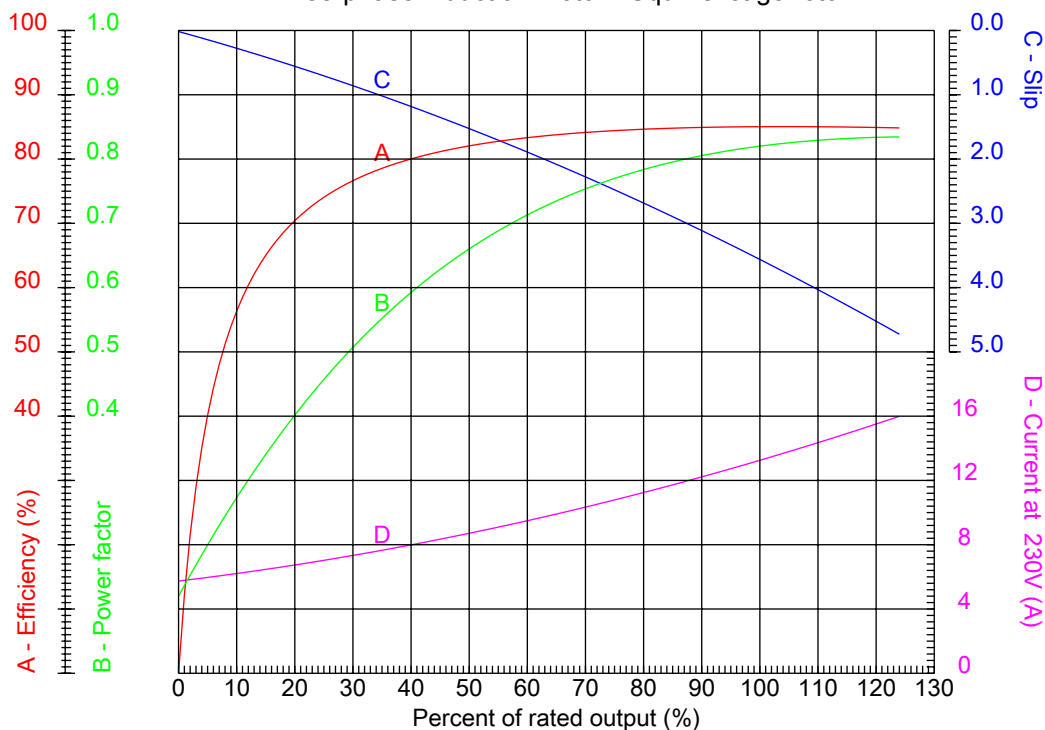
Checked



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



Customer :
Product line : Saw Arbor Motors : Single and Double Shaft End

Frame	: 80M	Locked rotor current (I _l /I _n)	: 8.0
Output	: 5 HP	Duty cycle	: S6 50%
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3470	Design	: N
Voltage	: 208-230/460 V	Locked rotor torque	: 340 %
Rated current	: 14.7-13.3/6.65 A	Breakdown torque	: 410 %
Insulation class	: F		

Notes:

Performed by

Checked

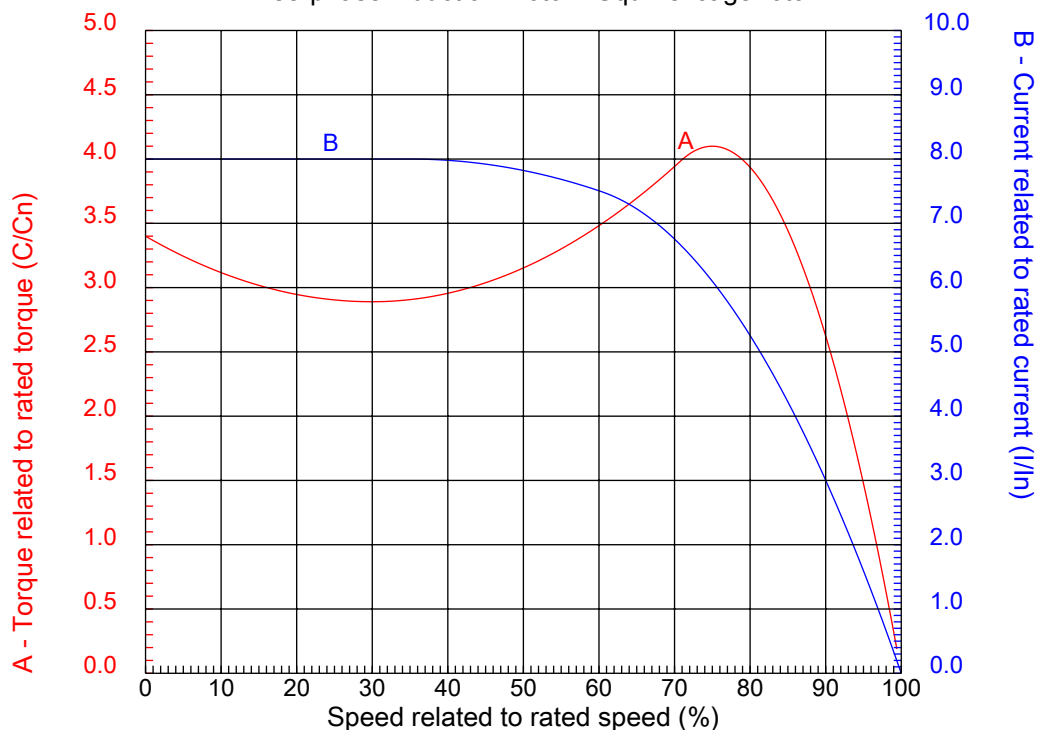


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



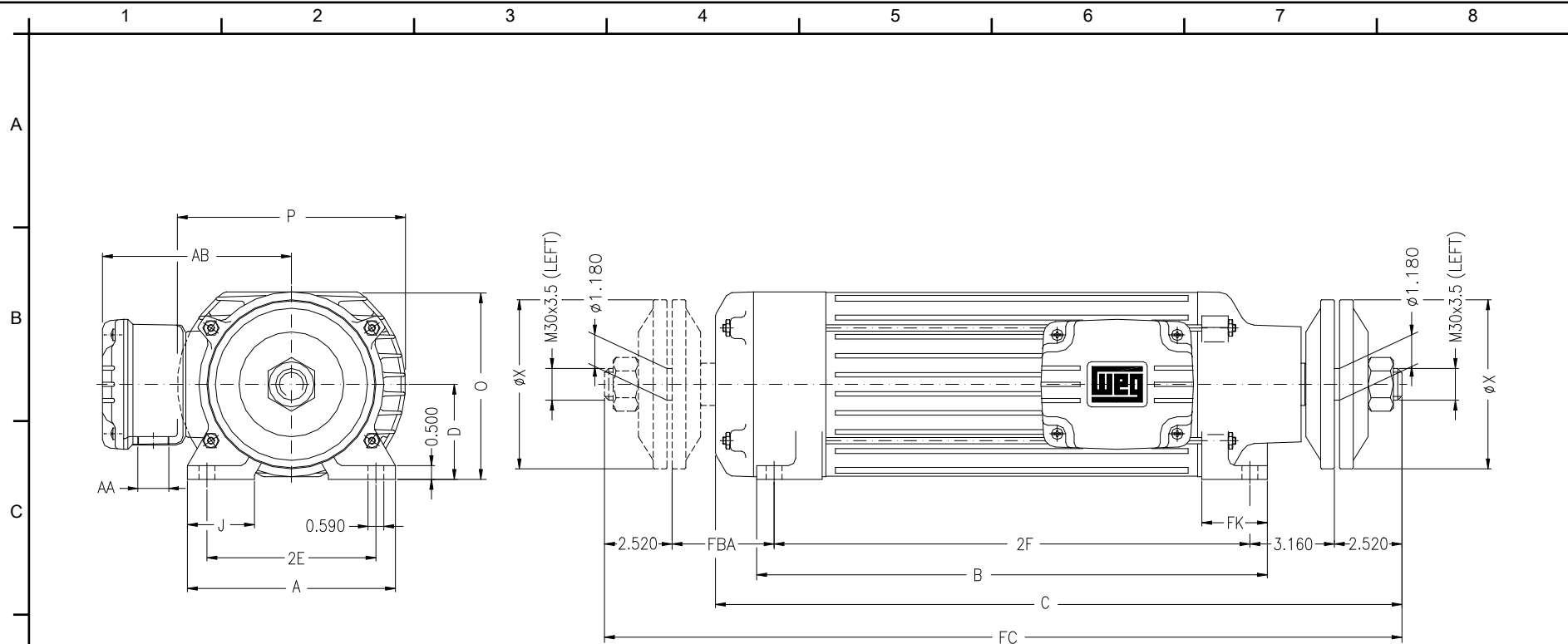
Customer :
Product line : Saw Arbor Motors : Single and Double Shaft End

Frame	: 80M	Locked rotor current (I _l /I _n)	: 8.0
Output	: 5 HP	Duty cycle	: S6 50%
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3470	Design	: N
Voltage	: 208-230/460 V	Locked rotor torque	: 340 %
Rated current	: 14.7-13.3/6.65 A	Breakdown torque	: 410 %
Insulation class	: F		

Notes:

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Customer:

Saw Arbor Motors : Single and Double Shaft End

F	2E 190	2F 310	A 225	B 355	FK 45
	FBA 102	C 521.0	FC 620.0	D 80	J 35
	O 157	P 190	AB 164	AA NPT 3/4"	

Three-phase induction motor
Frame 80M - IP54

28-DEC-2012

