



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 : 01018ES3ESA90LR

List Price : \$2,176

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 : 90L
 Output : 10 HP
 Frequency : 60 Hz
 Poles : 4
 Full load speed : 1720
 Slip : 4.44 %
 Voltage : 208-230/460 V
 Rated current : 31.2-28.2/14.1 A
 Locked rotor current : 226/113 A
 Locked rotor current (I_L/I_n) : 8.0
 No-load current : 15.3/7.65 A
 Full load torque : 30.1 lb.ft
 Locked rotor torque : 400 %
 Breakdown torque : 400 %
 Design : N
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 6 s (hot)
 Service factor : 1.15
 Duty cycle : S6 50%
 Ambient temperature : -20°C - +40°C
 Altitude : 1000
 Degree of Protection : IP54
 Approximate weight : 178 lb
 Moment of inertia : 0.39890 sq.ft.lb
 Noise level : 51 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6308 ZZ	6208 ZZ	100%	0.78	85.5
Regreasing interval	---	---	75%	0.71	85.5
Grease amount	---	---	50%	0.57	84.5

Notes:

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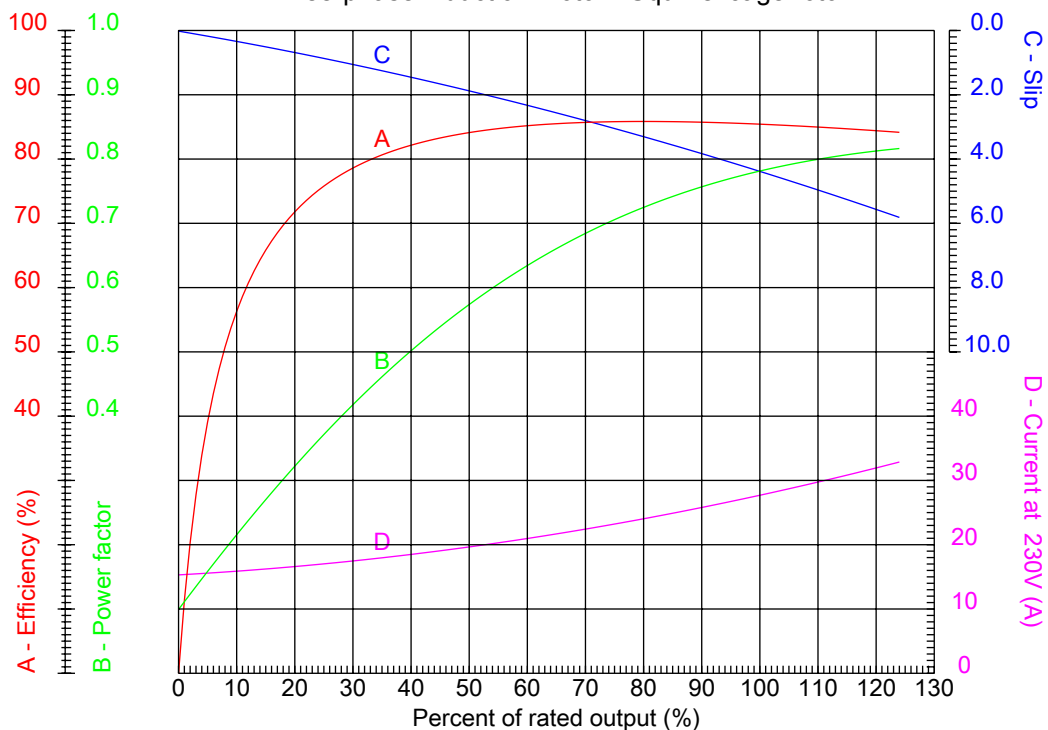


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 90L	Locked rotor current (I _l /I _n)	: 8.0
Output	: 10 HP	Duty cycle	: S6 50%
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1720	Design	: N
Voltage	: 208-230/460 V	Locked rotor torque	: 400 %
Rated current	: 31.2-28.2/14.1 A	Breakdown torque	: 400 %
Insulation class	: F		

Notes:

Performed by

Checked

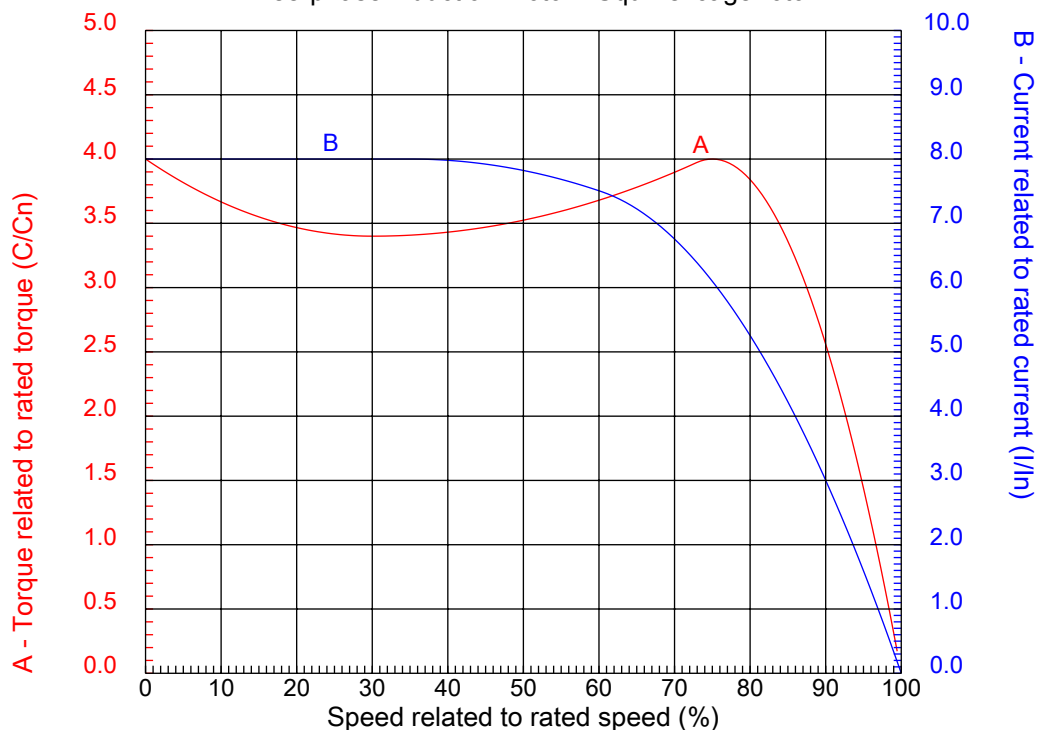


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



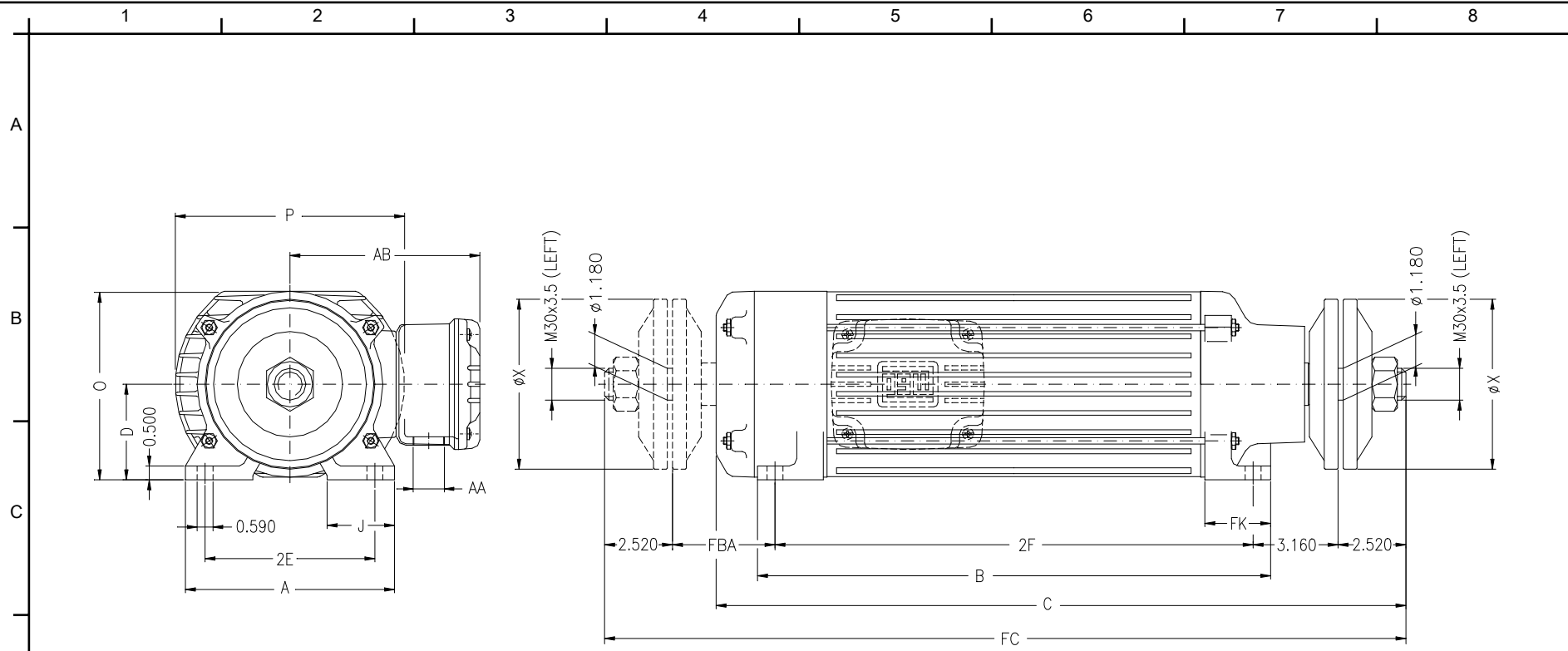
Customer :
Product line : Saw Arbor Motors : Single and Double Shaft End

Frame	: 90L	Locked rotor current (I _l /I _n)	: 8.0
Output	: 10 HP	Duty cycle	: S6 50%
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1720	Design	: N
Voltage	: 208-230/460 V	Locked rotor torque	: 400 %
Rated current	: 31.2-28.2/14.1 A	Breakdown torque	: 400 %
Insulation class	: F		

Notes:

Performed by

Checked



D

E

F

2E	2F	A	B	FK
160	510	197	543	62
FBA	C	FC	D	J
43	672.5	758.0	90	63
O	P	AB	AA	
177	208	179	NPT 1"	

Notes:		
Performed by:		
Checked:		
Customer:		
Saw Arbor Motors : Single and Double Shaft End		
Three-phase induction motor Frame 90L - IP54	28-DEC-2012	