



Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase : IEC Tru-Metric - TEFC (IP55) - Aluminum Frame

Catalog Number : .3709EP3EAL90S

List Price : \$662

Notes:

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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : Three-Phase : IEC Tru-Metric - TEFC (IP55) - Aluminum Frame

Frame : 90S
Output : 0.5 HP
Frequency : 60 Hz
Poles : 8
Full load speed : 840 rpm
Slip : 6.67 %
Voltage : 230/460 V
Rated current : 2.70/1.35 A
Locked rotor current : 11.9/5.94 A
Locked rotor current (I_L/I_n) : 4.4
No-load current : 2.14/1.07 A
Full load torque : 3.08 lb.ft
Locked rotor torque : 230 %
Breakdown torque : 250 %
Design : N
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 12 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000 m
Degree of Protection : IP55
Approximate weight : 33 lb
Moment of inertia : 0.10631 sq.ft.lb
Noise level : 47 dB(A)

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

Load	Power factor	Efficiency (%)
100%	0.56	61.5
75%	0.46	62.0
50%	0.36	56.5

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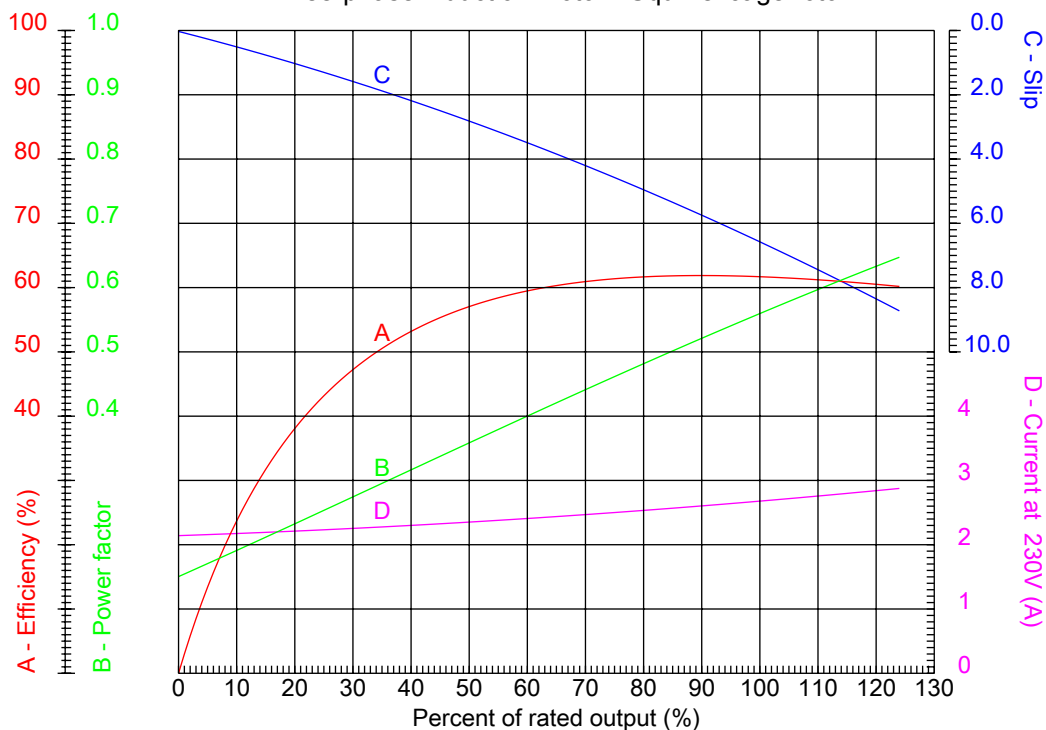
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Three-Phase : IEC Tru-Metric - TEFC (IP55) - Aluminum Frame

Frame	: 90S	Locked rotor current (I _L /I _n)	: 4.4
Output	: 0.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 840 rpm	Design	: N
Voltage	: 230/460 V	Locked rotor torque	: 230 %
Rated current	: 2.70/1.35 A	Breakdown torque	: 250 %
Insulation class	: F		

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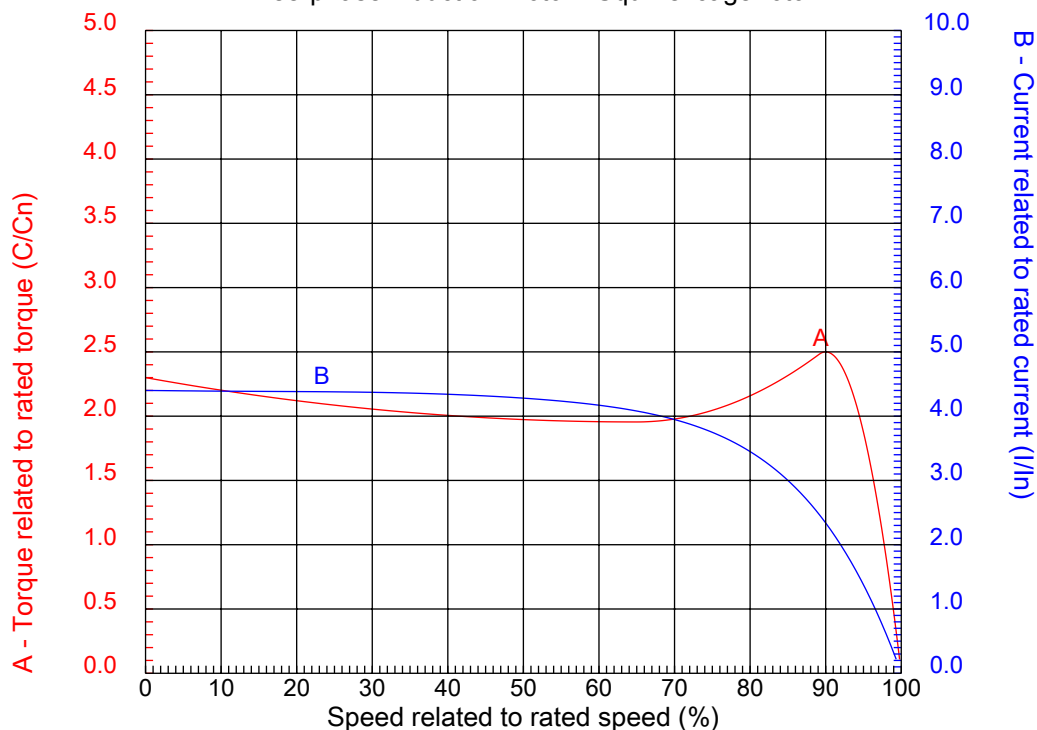
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



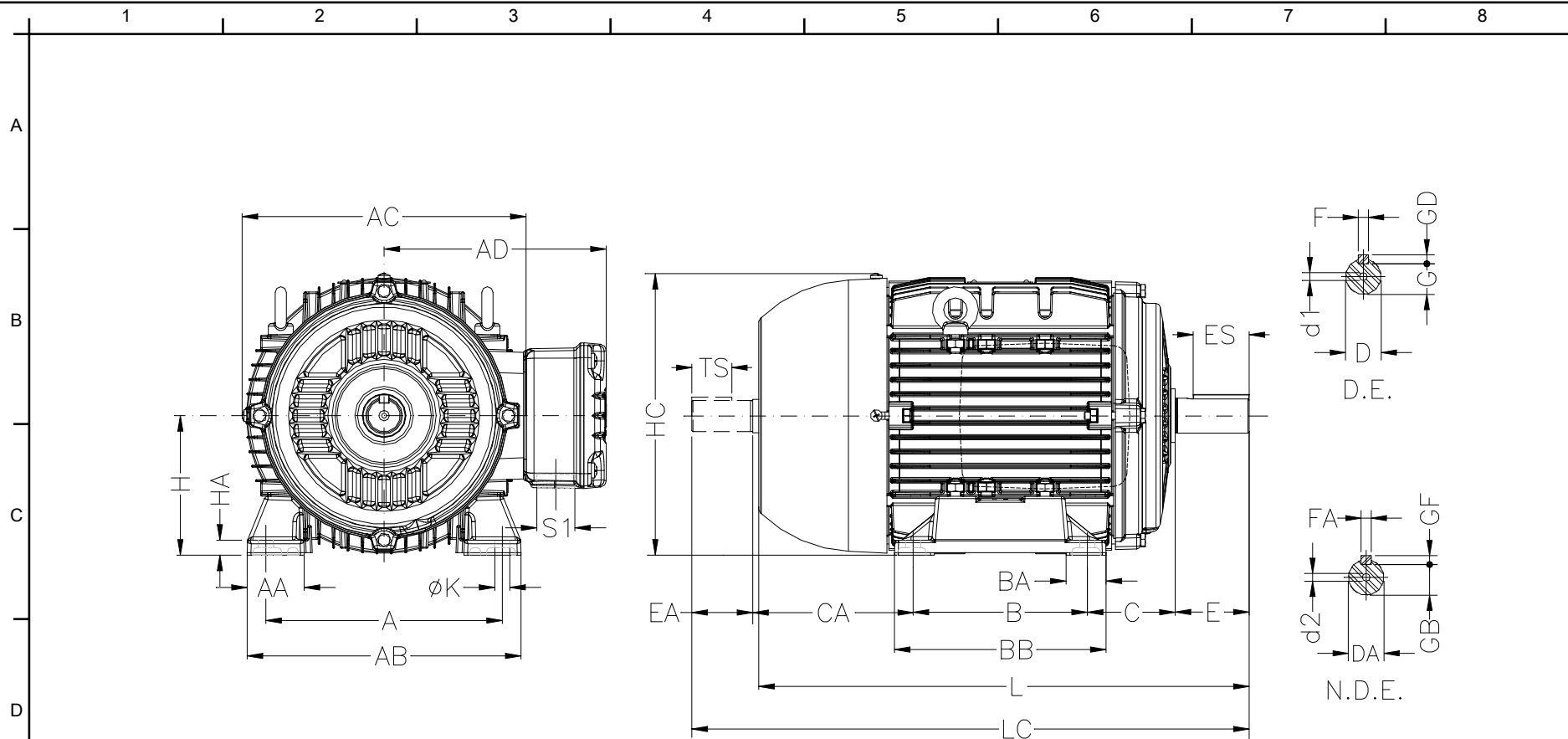
Customer :
Product line : Three-Phase : IEC Tru-Metric - TEFC (IP55) - Aluminum Frame

Frame	: 90S	Locked rotor current (I _L /I _n)	: 4.4
Output	: 0.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 840 rpm	Design	: N
Voltage	: 230/460 V	Locked rotor torque	: 230 %
Rated current	: 2.70/1.35 A	Breakdown torque	: 250 %
Insulation class	: F		

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A	AA	AB	AC	AD
5.512	1.378	6.693	7.047	6.102
B	BA	BB	C	CA
3.937/4.921	0.945	5.748	2.205	5.079/4.094
D	E	ES	F	G
0.945	1.969	1.417	0.315	0.787
GD	DA	EA	TS	FA
0.276	0.630	1.575	1.102	0.197
GB	GF	H	HA	HC
0.512	0.197	3.543	0.354	6.968
HD	K	L	LC	S1
9.449	0.394	12.953	14.764	NPT 3/4"
d1				
DM8	DM6			

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Three-Phase : IEC Tru-Metric - TEFC (IP55) - Aluminum Frame	
Three-phase induction motor	12-SEP-2016
Frame 90S - IP55	

