



No.:

Date: 9/29/2010

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase : W21 TEFC (IP55) - NEMA Premium Efficiency

Catalog Number : 00518ET3E184TC

List Price : \$810

Notes:

Three-Phase : W21 TEFC (IP55) - NEMA Premium Efficiency

Performed by:

Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
 Product line : Three-Phase : W21 TEFC (IP55) - NEMA Premium Efficiency

Frame : 184T
 Output : 5 HP
 Frequency : 60 Hz
 Poles : 4
 Full load speed : 1755
 Slip : 2.50 %
 Voltage : 208-230/460 V
 Rated current : 14.2-12.8/6.40 A
 Locked rotor current : 100/49.9 A
 Locked rotor current (I_L/I_n) : 7.8
 No-load current : 6.12/3.06 A
 Full load torque : 14.8 lb.ft
 Locked rotor torque : 210 %
 Breakdown torque : 300 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 20 s (hot)
 Service factor : 1.25
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP55
 Approximate weight : 102 lb
 Moment of inertia : 0.44494 sq.ft.lb
 Noise level : 56 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6307 ZZ	6206 ZZ	100%	0.81	89.5
Regreasing interval	---	---	75%	0.75	90.2
Grease amount	---	---	50%	0.63	88.5

Notes:

Performed by:

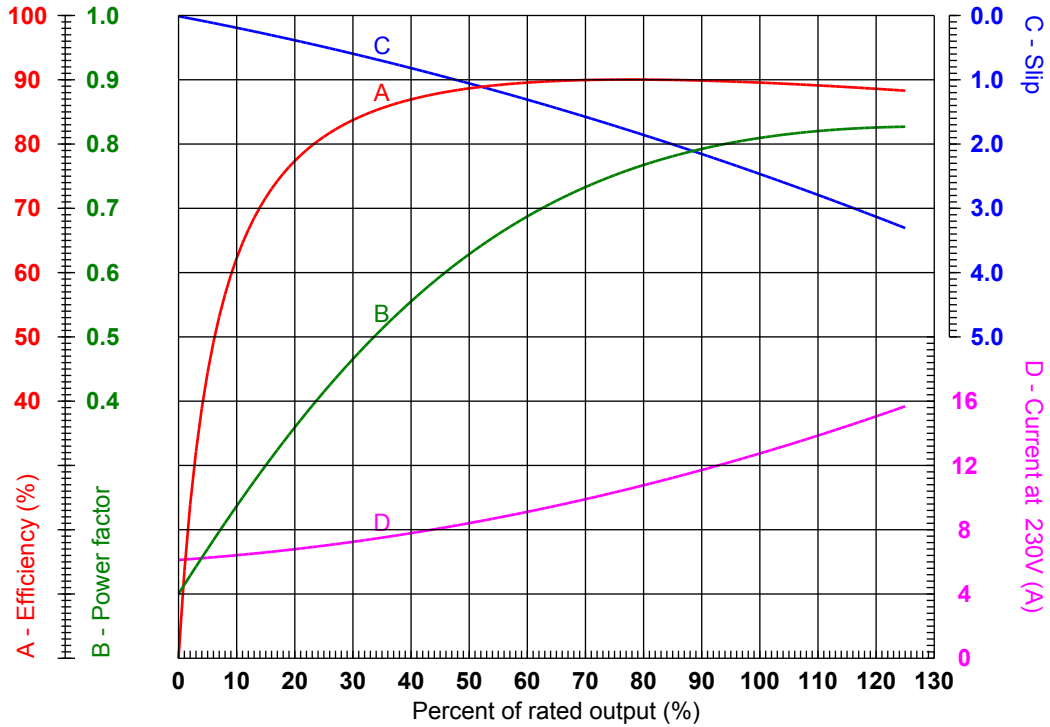
Checked:



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



Customer :
Product line : Three-Phase : W21 TEFC (IP55) - NEMA Premium Efficiency

Output	: 5 HP	Locked rotor current (I _L /I _n)	: 7.8
Frame	: 184T	Duty cycle	: S1
Full load speed	: 1755	Service factor	: 1.25
Frequency	: 60 Hz	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 210 %
Insulation class	: F	Breakdown torque	: 300 %
Rated current	: 14.2-12.8/6.40 A		

Notes:

Performed by:

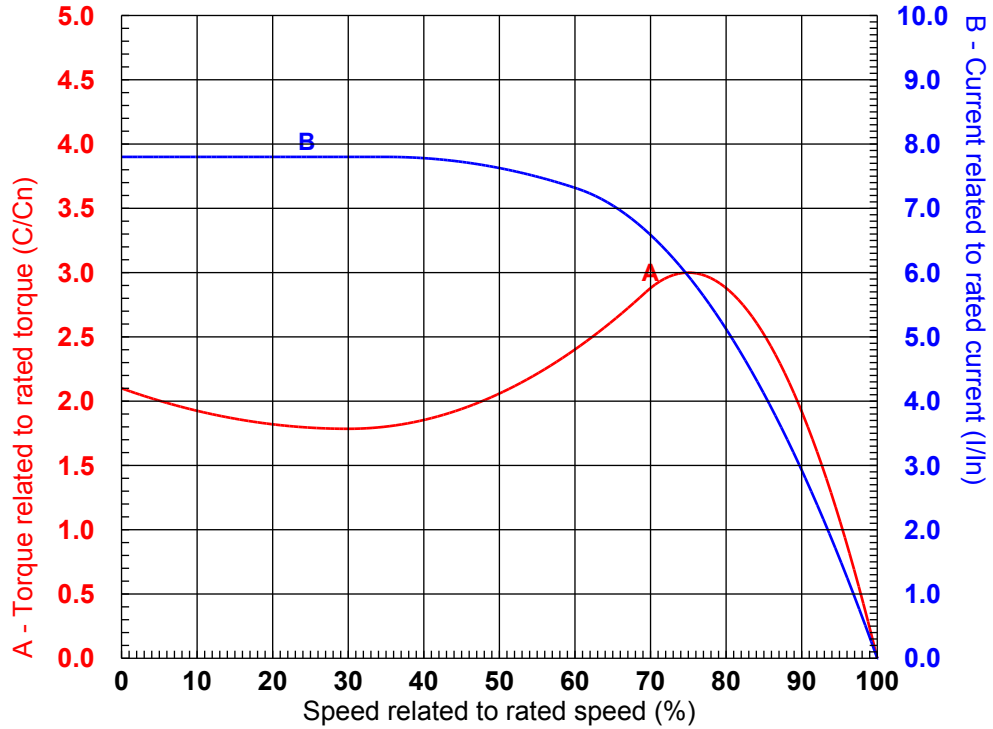
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CHARACTERISTIC CURVES RELATED TO SPEED Three-phase induction motor - Squirrel cage rotor



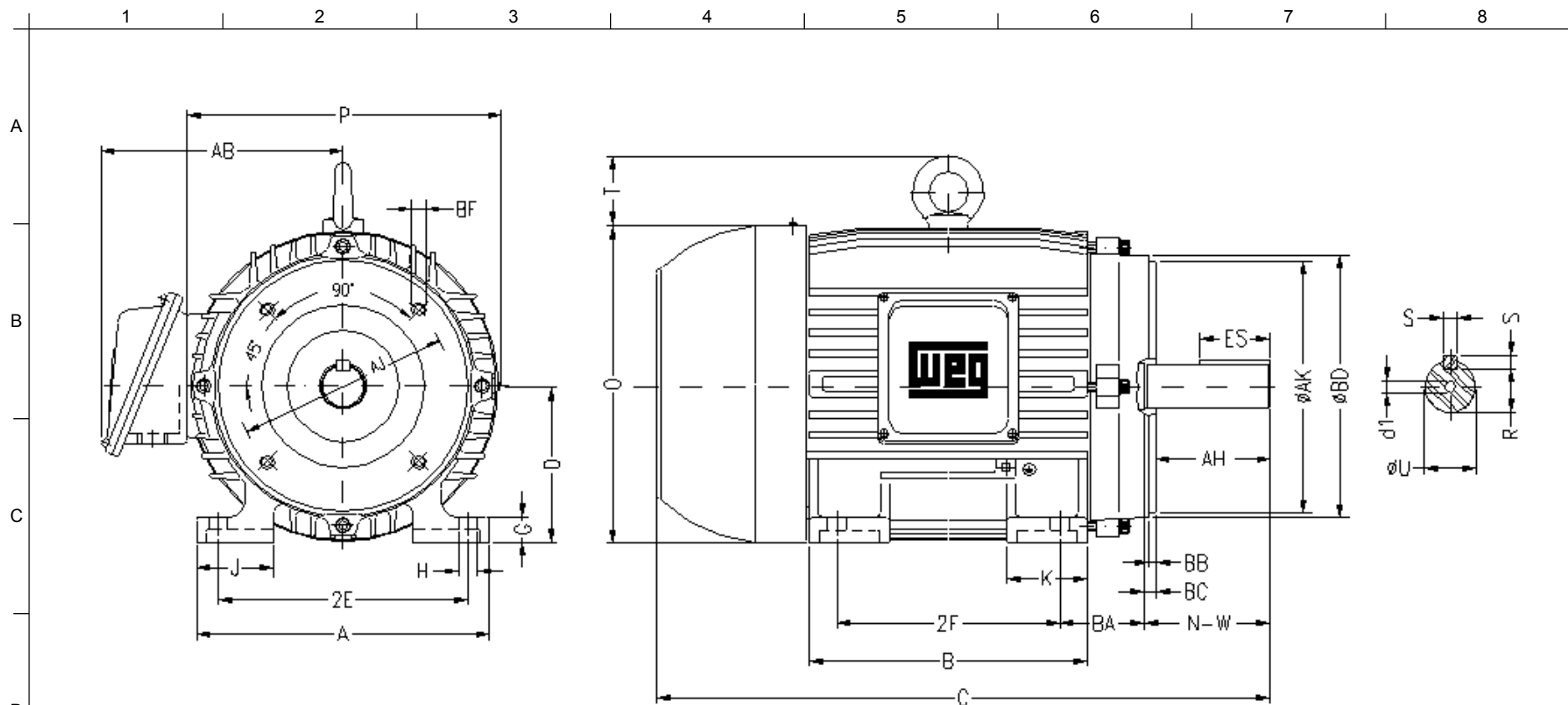
Customer :
Product line : Three-Phase : W21 TEFC (IP55) - NEMA Premium Efficiency

Output	: 5 HP	Locked rotor current (I _l /I _{ln})	: 7.8
Frame	: 184T	Duty cycle	: S1
Full load speed	: 1755	Service factor	: 1.25
Frequency	: 60 Hz	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 210 %
Insulation class	: F	Breakdown torque	: 300 %
Rated current	: 14.2-12.8/6.40 A		

Notes:

Performed by:

Checked:



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Customer:

Three-Phase : W21 TEFC (IP55) - NEMA Premium Efficiency

Three-phase induction motor
Frame 184T - IP55

9/29/2010



2E	2F	H	BA	A
7.500	5.500	0.406	2.750	8.661
B	C	D	G	J
6.969	15.860	4.500	0.720	1.890
K	O	P	T	ES
1.969	9.343	8.740	1.772	1.969
S	N-W	U	R	AB
0.250	2.750	1.125	0.984	7.086
AA	d1	Flange	AJ	AK
NPT 1	A4	FC-184	7.250	8.500
BD	BF	BB	BC	AH
8.875	UNC 1/2"x13	0.250	0.125	