



No.:

Date: 19-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 NEMA Premium - Ball Bearings

Catalog Number : 00712ET3E254TC-W22

List Price : \$2,134

Notes:

Performed by:

Checked:



No.:

Date: 19-DEC-2012

DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame : 254T
Output : 7.5 HP
Frequency : 60 Hz
Poles : 6
Full load speed : 1175
Slip : 2.08 %
Voltage : 208-230/460 V
Rated current : 21.0-19.0/9.48 A
Locked rotor current : 129/64.5 A
Locked rotor current (I_L/I_n) : 6.8
No-load current : 9.00/4.50 A
Full load torque : 33.1 lb.ft
Locked rotor torque : 250 %
Breakdown torque : 300 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 30 s (hot)
Service factor : 1.25
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 262 lb
Moment of inertia : 3.9197 sq.ft.lb
Noise level : 59 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6309 C3	6209 C3	100%	0.80	91.0
Regreasing interval	20000 h	20000 h	75%	0.74	90.2
Grease amount	13 g	9 g	50%	0.63	89.5

Notes:

Performed by

Checked

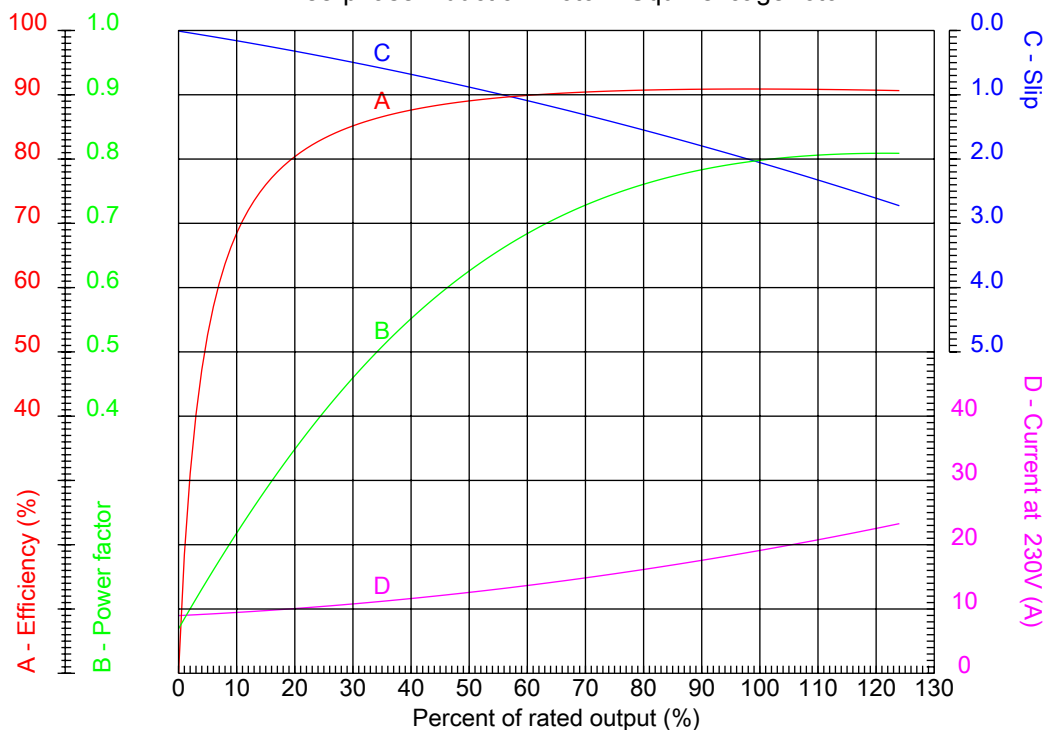


No.:

Date: 19-DEC-2012

PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame : 254T	Locked rotor current (I _L /I _n) : 6.8
Output : 7.5 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.25
Full load speed : 1175	Design : B
Voltage : 208-230/460 V	Locked rotor torque : 250 %
Rated current : 21.0-19.0/9.48 A	Breakdown torque : 300 %
Insulation class : F	

Notes:

Performed by

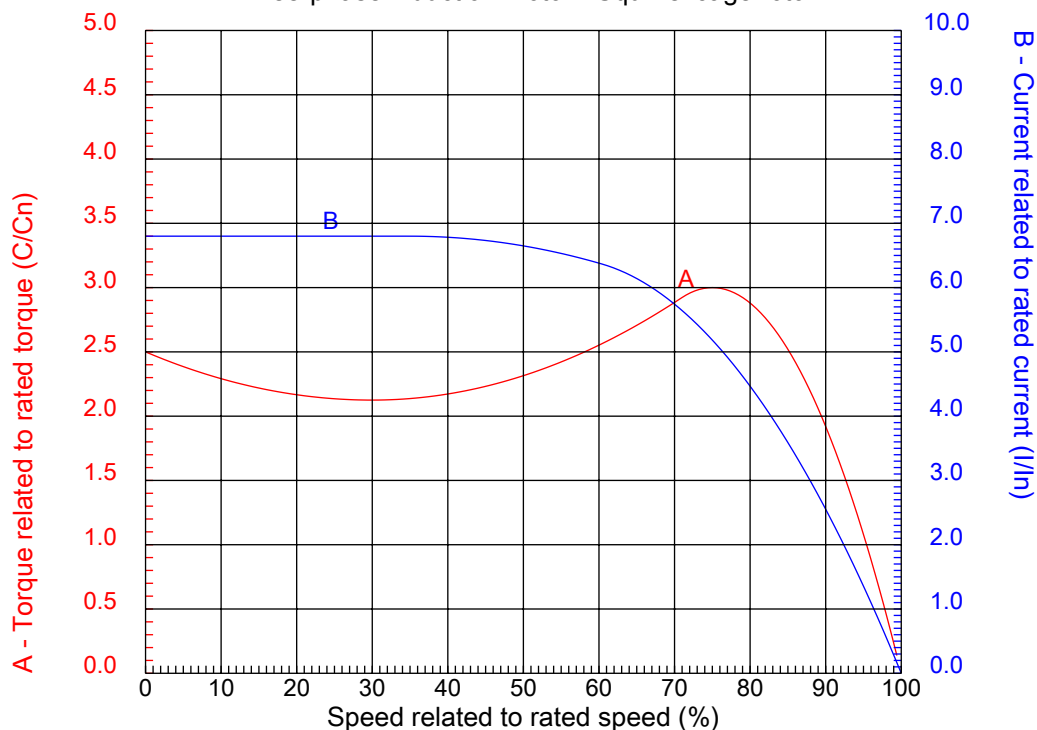
Checked



No.:

Date: 19-DEC-2012

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



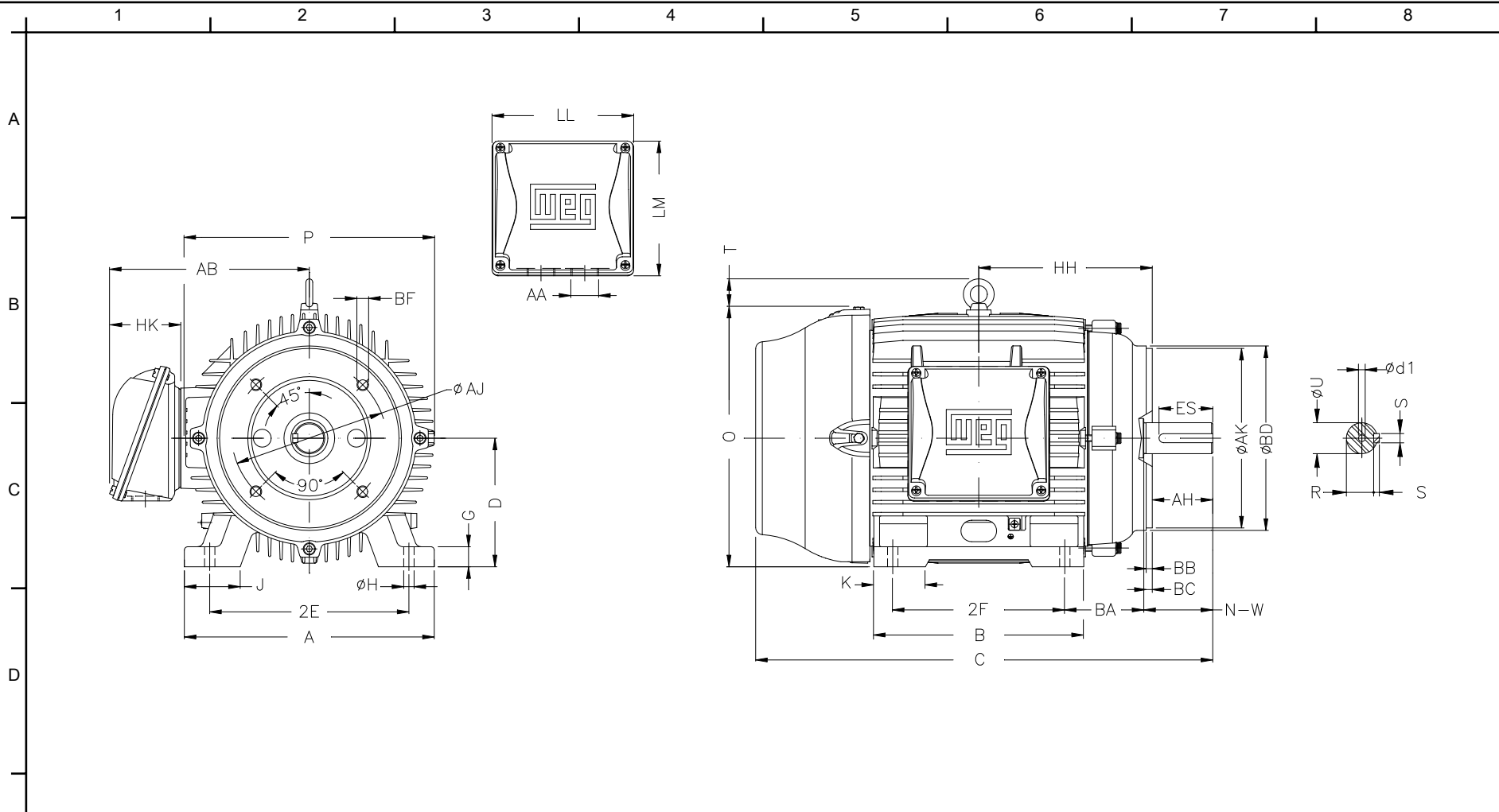
Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame	: 254T	Locked rotor current (I _l /I _n)	: 6.8
Output	: 7.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1175	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 250 %
Rated current	: 21.0-19.0/9.48 A	Breakdown torque	: 300 %
Insulation class	: F		

Notes:

Performed by

Checked



E	2E	J	A	P	AB
	10.000	2.539	12.126	12.953	10.394
F	2F	K	B	BA	U
	8.252	2.559	10.000	4.250	1.625
F	N-W	ES	S	R	depth
	4.000	2.756	0.375	1.406	0.375
F	D	G	HB	O	T
	6.250	0.827	3.061	12.598	2.087
F	HD	HF	HH	HK	H
	14.685	6.565	8.376	3.937	0.531
F	C	LL	LM	AA	d1
	23.213	7.795	7.402	NPT 1 1/2"	A 4
F	d2	Flange	AJ	AK	BD
	A 4	FC-184	7.250	8.500	8.875
F	BF	BB	BC	AH	
	UNC 1/2"x13	0.250	0.250	3.750	

Notes:		
Performed by:		
Checked:		
Customer:		
W22 NEMA Premium - Ball Bearings		
Three-phase induction motor Frame 254T - IP55	19-DEC-2012	