



No.:

Date: 19-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 NEMA Premium - Ball Bearings

Catalog Number : 00118ET3E143TC-W22

List Price : \$555

Notes:

Performed by:

Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame : 143T
Output : 1 HP
Frequency : 60 Hz
Poles : 4
Full load speed : 1760
Slip : 2.22 %
Voltage : 208-230/460 V
Rated current : 3.07-2.82/1.41 A
Locked rotor current : 23.7/11.8 A
Locked rotor current (I_L/I_n) : 8.4
No-load current : 1.54/0.770 A
Full load torque : 2.94 lb.ft
Locked rotor torque : 280 %
Breakdown torque : 350 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 18 s (hot)
Service factor : 1.25
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 41 lb
Moment of inertia : 0.11723 sq.ft.lb
Noise level : 51 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6205 ZZ	6204 ZZ	100%	0.78	85.5
Regreasing interval	---	---	75%	0.70	84.0
Grease amount	---	---	50%	0.60	80.0

Notes:

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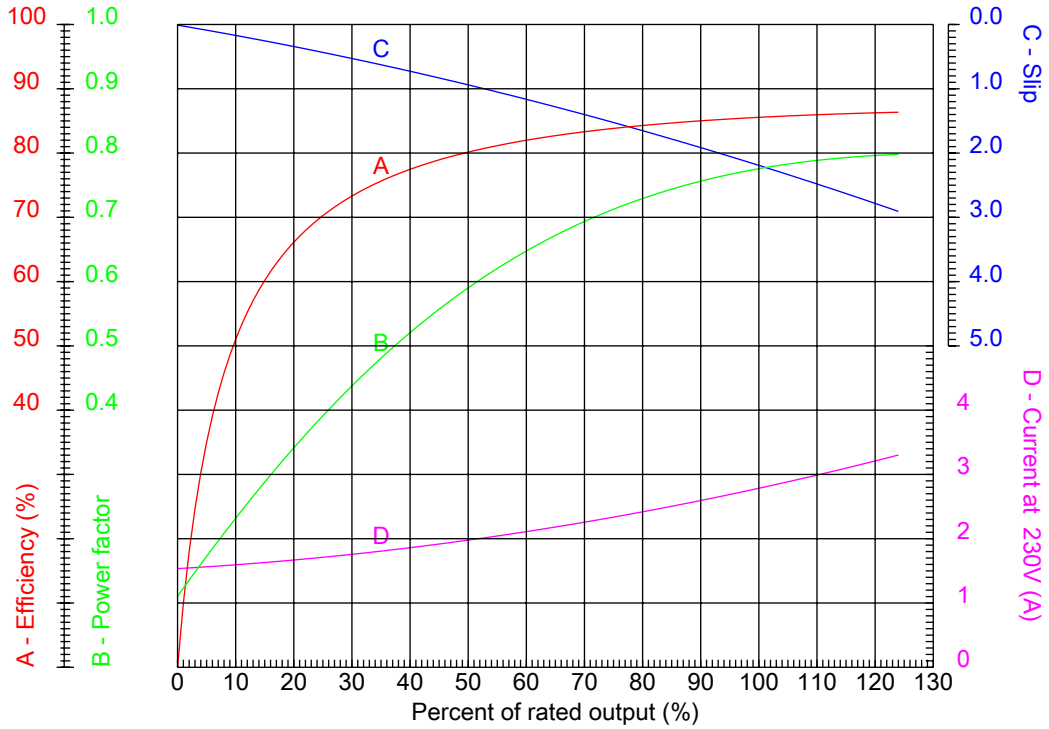


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame	: 143T	Locked rotor current (I _l /I _n)	: 8.4
Output	: 1 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1760	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 280 %
Rated current	: 3.07-2.82/1.41 A	Breakdown torque	: 350 %
Insulation class	: F		

Notes:

Performed by

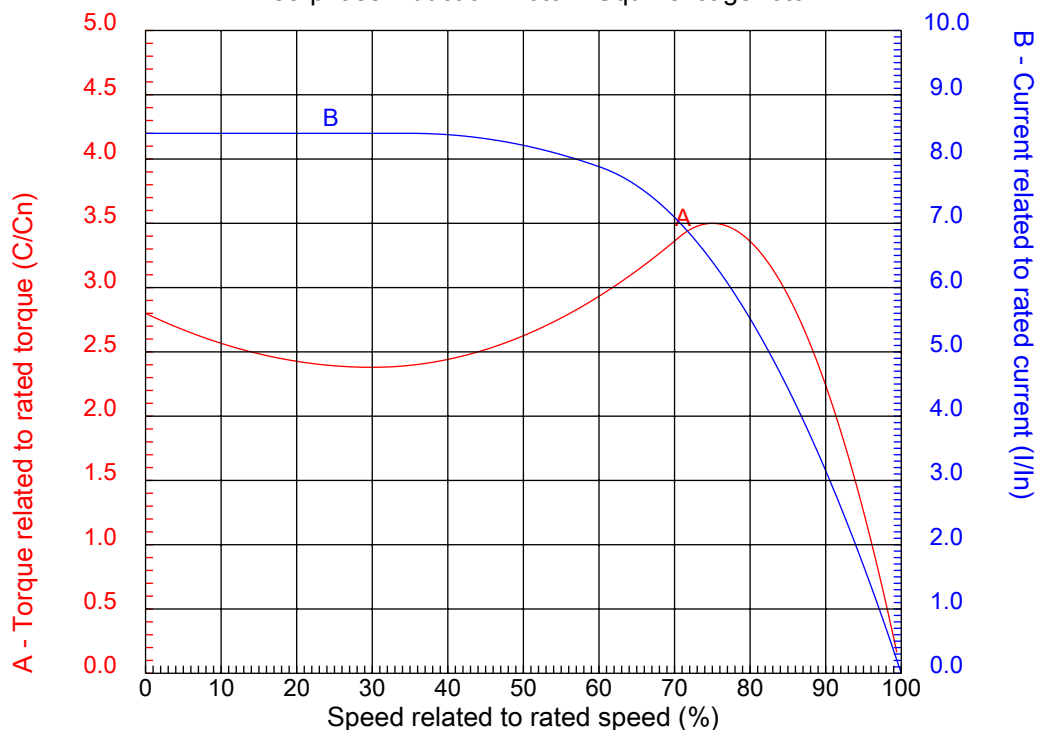
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CHARACTERISTIC CURVES RELATED TO SPEED Three-phase induction motor - Squirrel cage rotor



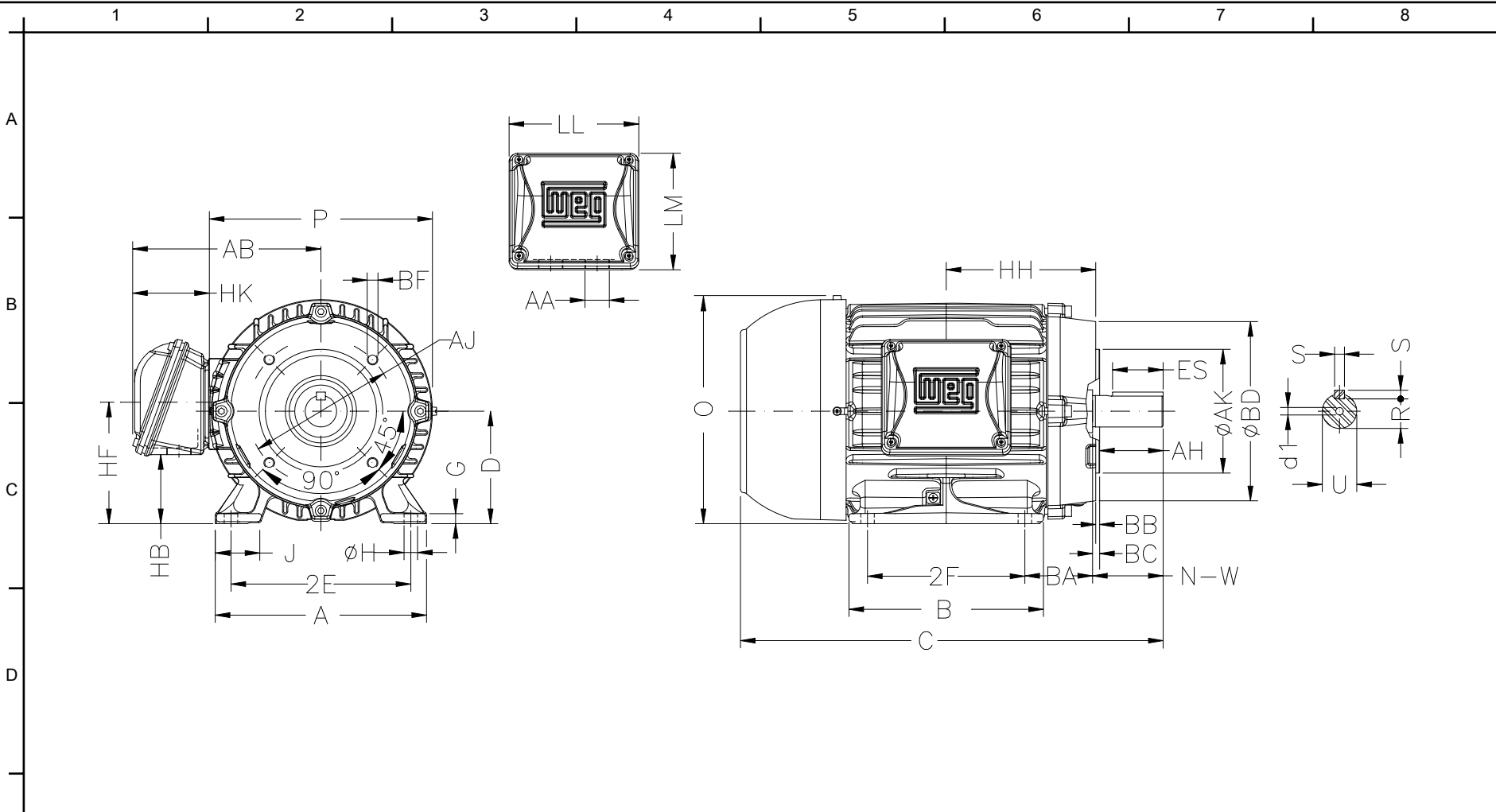
Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame	: 143T	Locked rotor current (I _l /I _{ln})	: 8.4
Output	: 1 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1760	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 280 %
Rated current	: 3.07-2.82/1.41 A	Breakdown torque	: 350 %
Insulation class	: F		

Notes:

Performed by

Checked



E	2E	J	A	P	AB
	5.500	1.437	6.457	7.047	6.181
F	2F	B	BA	FBA	U
	4.000	5.157	2.250	4.082	0.875
F	N-W	ES	S	R	depth
	2.250	1.575	0.187	0.765	0.187
F	D	G	HB	O	HF
	3.500	0.354	1.728	7.122	3.500
F	HH	HK	H	C	LL
	4.250	2.638	0.344	12.346	4.527
F	LM	AA	d1	d2	Flange
	4.094	NPT 3/4"	A 4	A 4	FC-149
F	AJ	AK	BD	BF	BB
	5.875	4.500	6.500	UNC 3/8"x16	0.156
F	BC	AH			
	0.125	2.125			

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Customer:		
W22 NEMA Premium - Ball Bearings		
Three-phase induction motor Frame 143T - IP55	19-DEC-2012	