



No.:

Date: 24-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase: W22 IE3 IEC Tru-Metric - TEFC (IP55) Cast Iron Frame

Catalog Number : 05518ET3Y250S/M-W22

List Price : \$8,961

Notes:

Performed by:

Checked:



No.:

Date: 24-DEC-2012

## DATA SHEET

### Three-phase induction motor - Squirrel cage rotor

Customer :  
Product line : Three-Phase: W22 IE3 IEC Tru-Metric - TEFC (IP55) Cast Iron Frame

Frame : 250S/M  
Output : 75 HP  
Frequency : 60 Hz  
Poles : 4  
Full load speed : 1785  
Slip : 0.83 %  
Voltage : 460 V  
Rated current : 85.1 A  
Locked rotor current : 698 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 8.2  
No-load current : 32.0 A  
Full load torque : 218 lb.ft  
Locked rotor torque : 330 %  
Breakdown torque : 310 %  
Design : N  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 27 s (hot)  
Service factor : 1.25  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 1118 lb  
Moment of inertia : 26.323 sq.ft.lb  
Noise level : 68 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6314 C3	6314 C3	100%	0.85	95.4
Regreasing interval	12000 h	12000 h	75%	0.79	94.5
Grease amount	27 g	27 g	50%	0.67	93.6

Notes:

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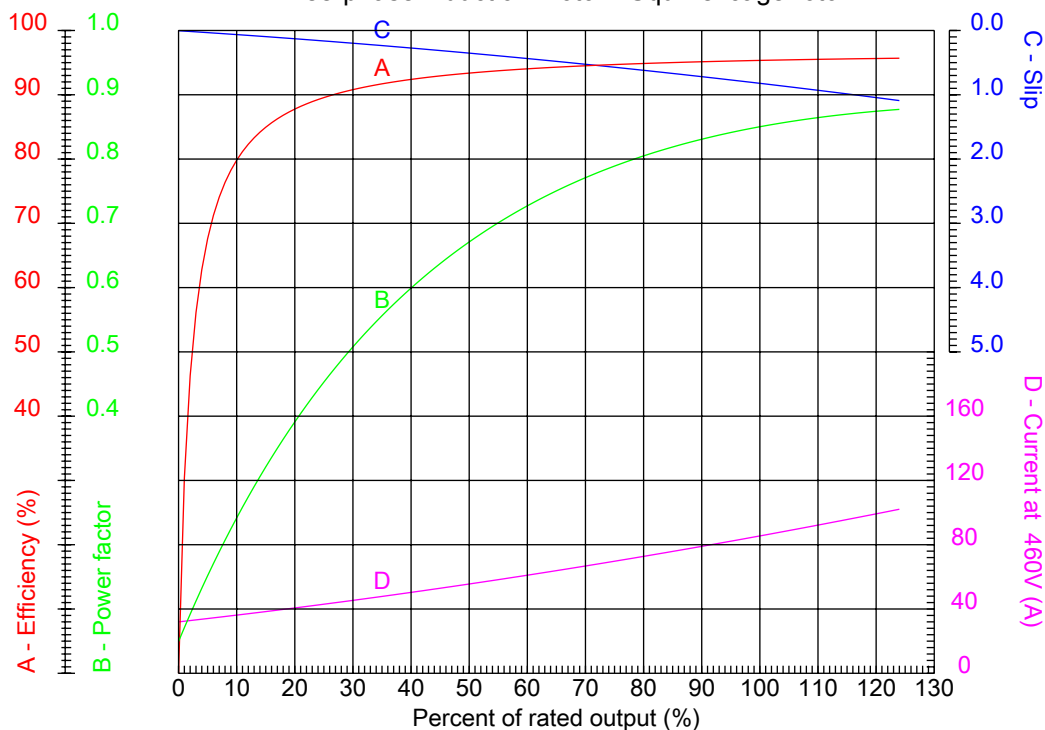


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### PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Three-Phase: W22 IE3 IEC Tru-Metric - TEFC (IP55) Cast Iron Frame

Frame : 250S/M	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) : 8.2
Output : 75 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.25
Full load speed : 1785	Design : N
Voltage : 460 V	Locked rotor torque : 330 %
Rated current : 85.1 A	Breakdown torque : 310 %
Insulation class : F	

Notes:

Performed by

Checked

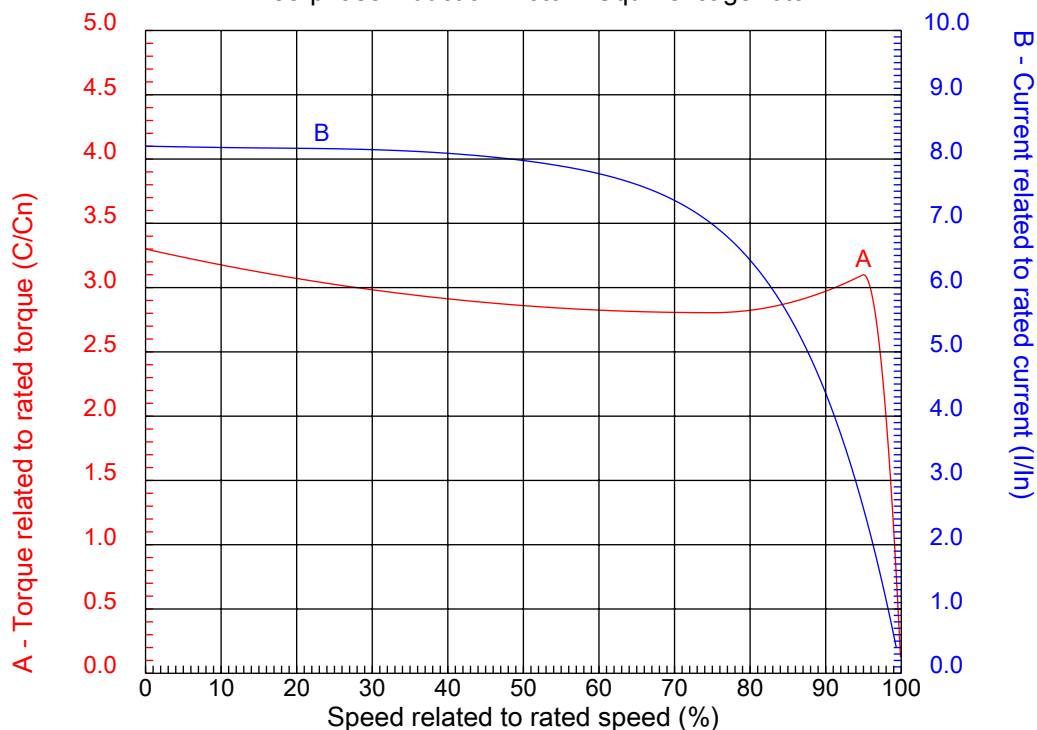


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



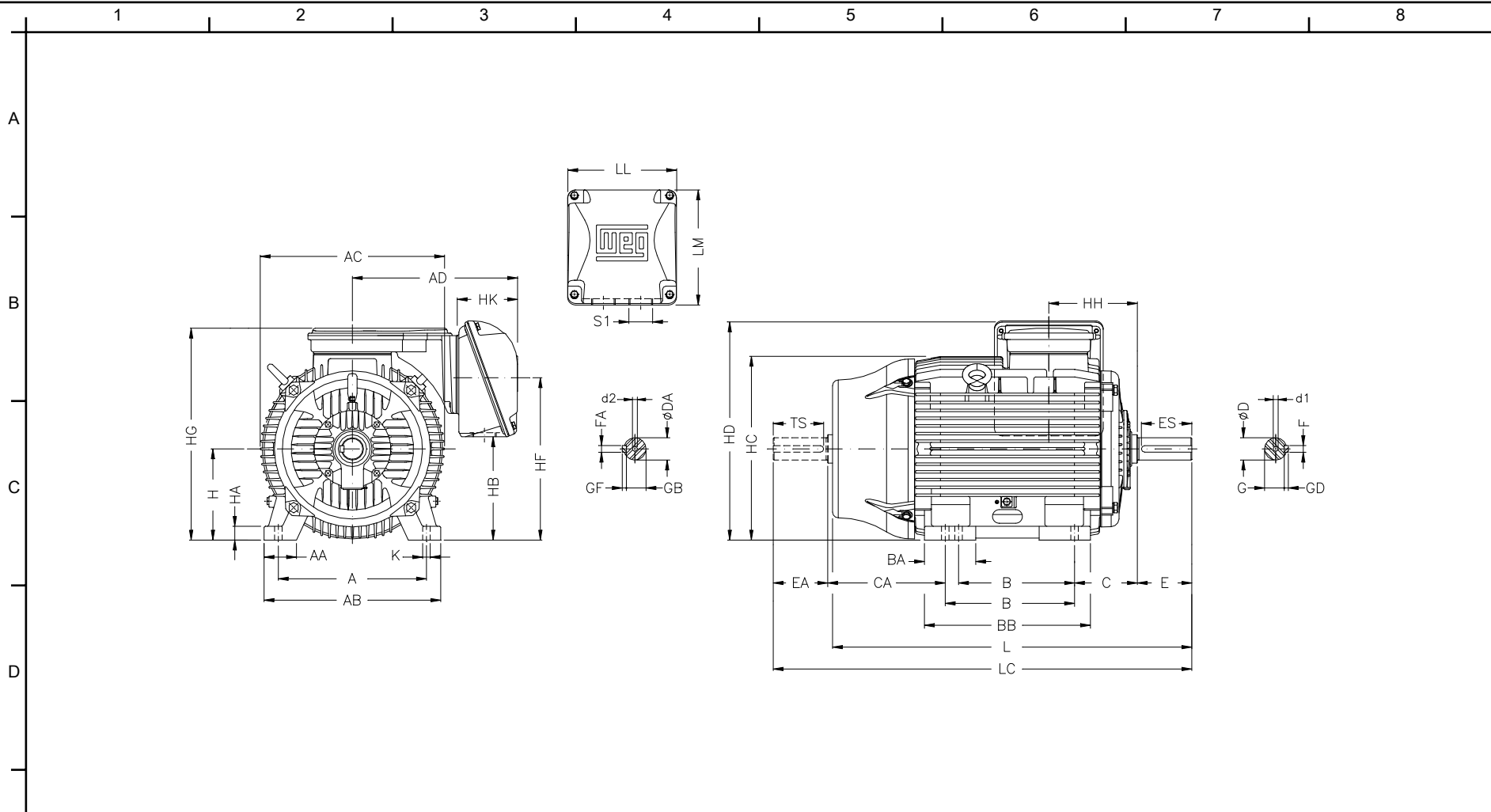
Customer :  
Product line : Three-Phase: W22 IE3 IEC Tru-Metric - TEFC (IP55) Cast Iron Frame

Frame	: 250S/M	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 8.2
Output	: 75 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1785	Design	: N
Voltage	: 460 V	Locked rotor torque	: 330 %
Rated current	: 85.1 A	Breakdown torque	: 310 %
Insulation class	: F		

Notes:

Performed by

Checked



	A 406	AA 100	AB 506	AC 486	AD 408	Notes:	
E	B 311/349	BA 146	BB 467	C 168	CA 354/316		
	D 65m6	E 140	ES 125	F 18	G 58	Performed by:	
	GD 11	DA 60m6	EA 140	TS 125	FA 18	Checked:	
	GB 53	GF 11	H 250	HA 43	HC 493	Customer:	
	HD 583	K 24	L 965	LC 1113	S1 2XM63X1,5	Three-Phase: W22 IE3 IEC Tru-Metric - TEFC (IP55) Cast Iron Frame	
F	d1 DM20	d2 DM20	Flange FF-500	LA 18	M 500	Three-phase induction motor Frame 250S/M - IP55	
	N 450	P 550	T 5	S 19	Angle 22°30'		
	Holes 8					24-DEC-2012	