



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 : 04518ET3Y225S/M-W22

List Price : \$7,391

Notes:

Performed by:

Checked:



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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 : 225S/M  
Output : 60 HP  
Frequency : 60 Hz  
Poles : 4  
Full load speed : 1780  
Slip : 1.11 %  
Voltage : 460 V  
Rated current : 69.9 A  
Locked rotor current : 573 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 8.2  
No-load current : 29.8 A  
Full load torque : 175 lb.ft  
Locked rotor torque : 320 %  
Breakdown torque : 370 %  
Design : N  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 24 s (hot)  
Service factor : 1.25  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 926 lb  
Moment of inertia : 22.614 sq.ft.lb  
Noise level : 67 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6314 C3	6314 C3	100%	0.85	95.0
Regreasing interval	12000 h	12000 h	75%	0.79	94.5
Grease amount	27 g	27 g	50%	0.69	93.6

Notes:

Performed by

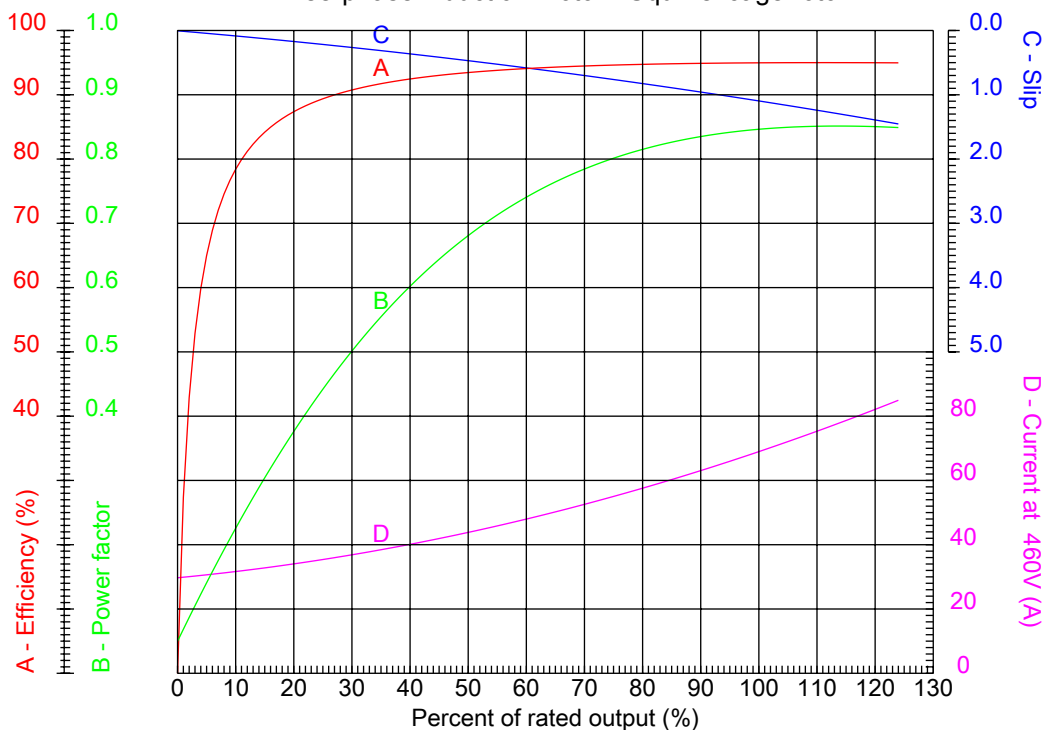
Checked



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



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

Frame	: 225S/M	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 8.2
Output	: 60 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1780	Design	: N
Voltage	: 460 V	Locked rotor torque	: 320 %
Rated current	: 69.9 A	Breakdown torque	: 370 %
Insulation class	: F		

Notes:

Performed by

Checked

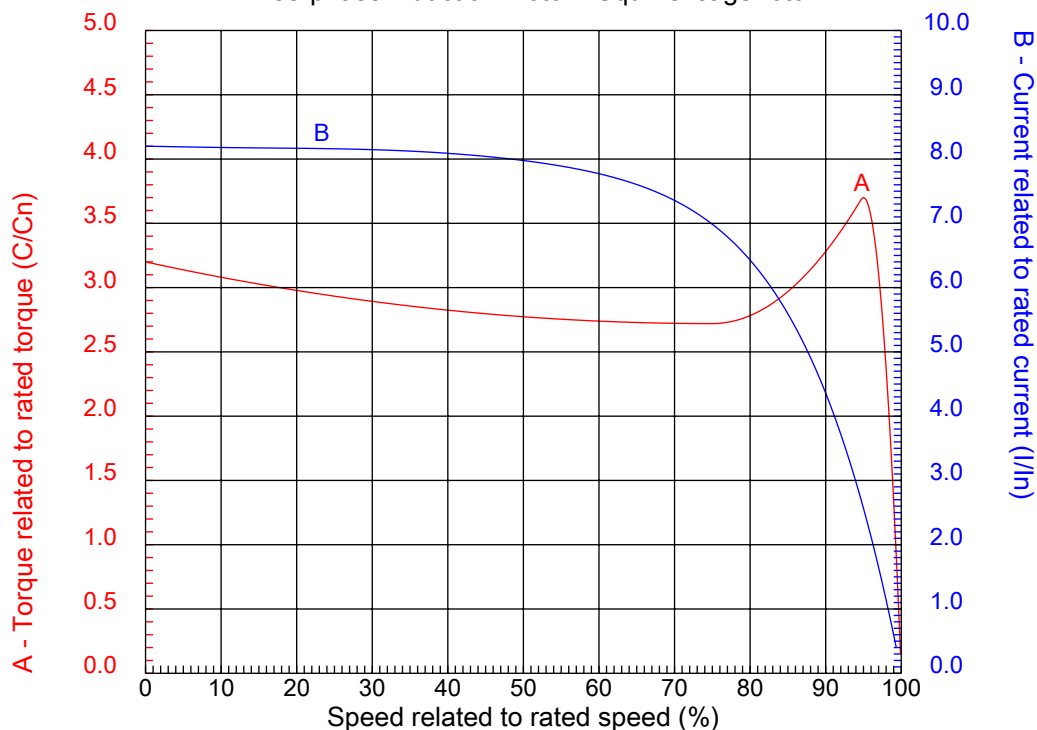


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



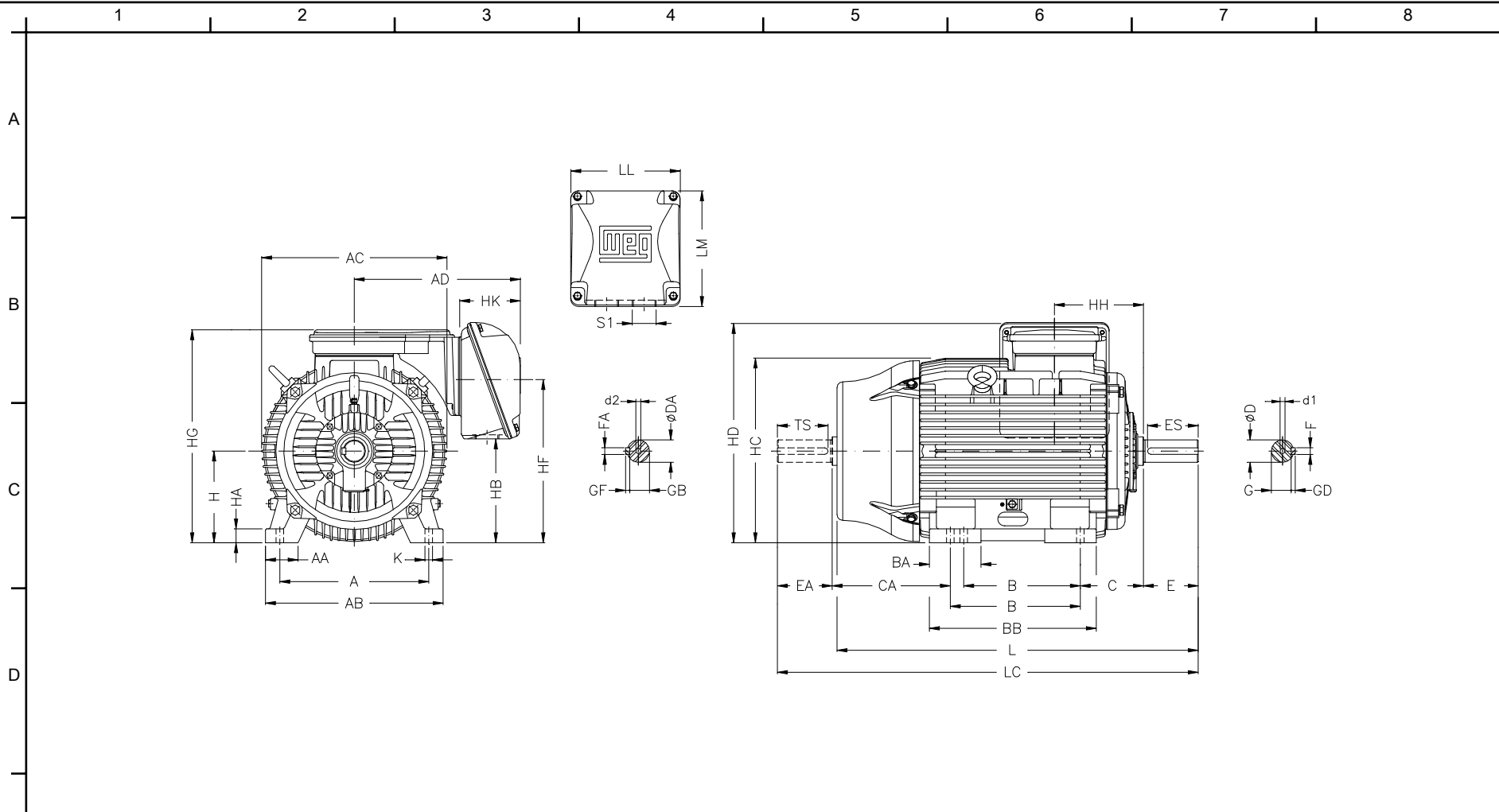
Customer :  
Product line : Three-Phase: W22 IE3 IEC Tru-Metric - TEFC (IP55) Cast Iron Frame

Frame	: 225S/M	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 8.2
Output	: 60 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1780	Design	: N
Voltage	: 460 V	Locked rotor torque	: 320 %
Rated current	: 69.9 A	Breakdown torque	: 370 %
Insulation class	: F		

Notes:

Performed by

Checked



E	A 356	AA 80	AB 436	AC 455	AD 408	Notes:	
	B 286/311	BA 124	BB 412	C 149	CA 319/294		
F	D 60m6	E 140	ES 125	F 18	G 53	Performed by:	
	GD 11	DA 60m6	EA 140	TS 125	FA 18	Checked:	
	GB 53	GF 11	H 225	HA 34	HC 453	Customer:	
F	HD 550	K 18.5	L 886	LC 1034	S1 2XM50X1.5	Three-Phase: W22 IE3 IEC Tru-Metric - TEFC (IP55) Cast Iron Frame	
	d1 DM20	d2 DM20	Flange FF-400	LA 18	M 400		
	N 350	P 450	T 5	S 19	Angle 22°30'		
	Holes 8						
Three-phase induction motor Frame 225S/M - IP55						24-DEC-2012	