



No.:

Date: 24-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase: W22 IE2 IEC Tru-Metric - TEFC (IP55) Cast Iron Frame

Catalog Number : 02209EP3Y225S/M-W22

List Price : \$6,702

Notes:

Performed by:

Checked:



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## DATA SHEET

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

Customer :  
Product line : Three-Phase: W22 IE2 IEC Tru-Metric - TEFC (IP55) Cast Iron Frame

Frame : 225S/M  
Output : 30 HP  
Frequency : 60 Hz  
Poles : 8  
Full load speed : 885  
Slip : 1.67 %  
Voltage : 460 V  
Rated current : 36.9 A  
Locked rotor current : 255 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.9  
No-load current : 16.8 A  
Full load torque : 176 lb.ft  
Locked rotor torque : 220 %  
Breakdown torque : 270 %  
Design : N  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 16 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 789 lb  
Moment of inertia : 23.023 sq.ft.lb  
Noise level : 60 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6314 C3	6314 C3	100%	0.81	92.4
Regreasing interval	20000 h	20000 h	75%	0.77	92.4
Grease amount	27 g	27 g	50%	0.65	91.7

Notes:

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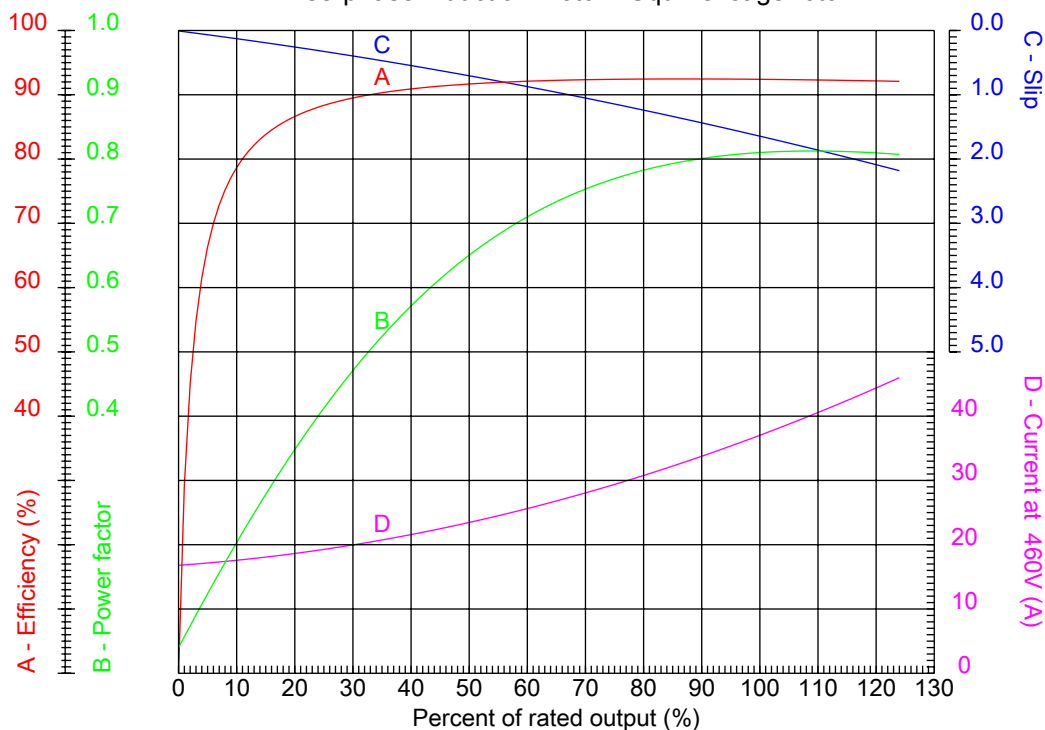
Checked



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



Customer :  
Product line : Three-Phase: W22 IE2 IEC Tru-Metric - TEFC (IP55) Cast Iron Frame

Frame	: 225S/M	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.9
Output	: 30 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 885	Design	: N
Voltage	: 460 V	Locked rotor torque	: 220 %
Rated current	: 36.9 A	Breakdown torque	: 270 %
Insulation class	: F		

Notes:

Performed by

Checked

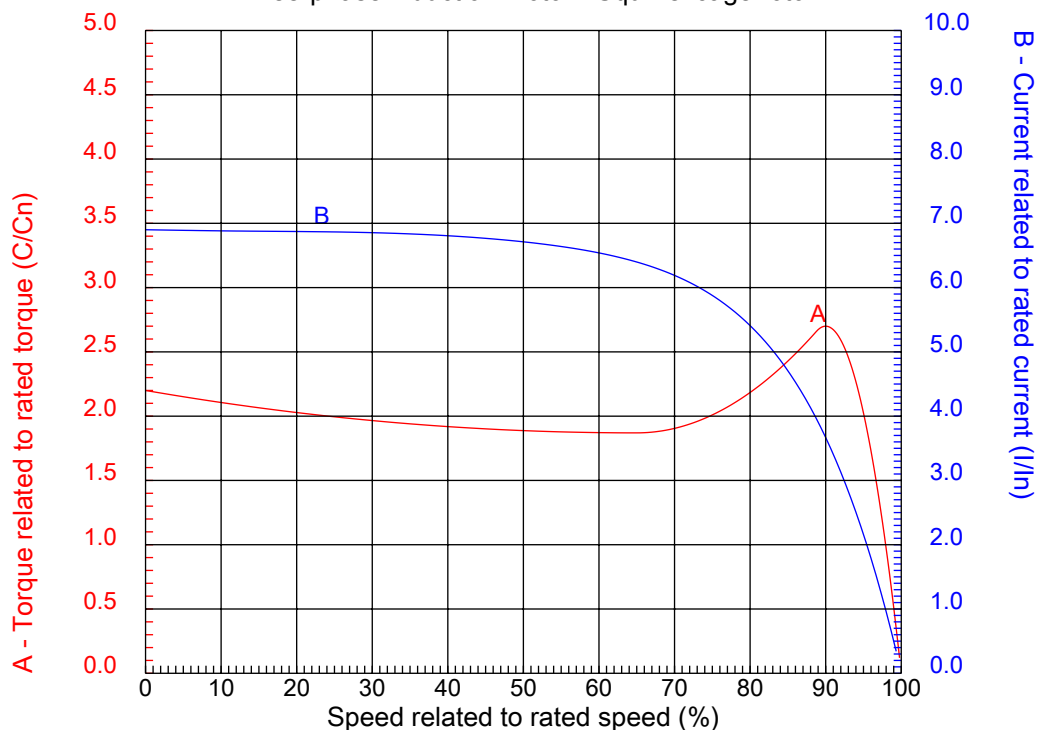


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



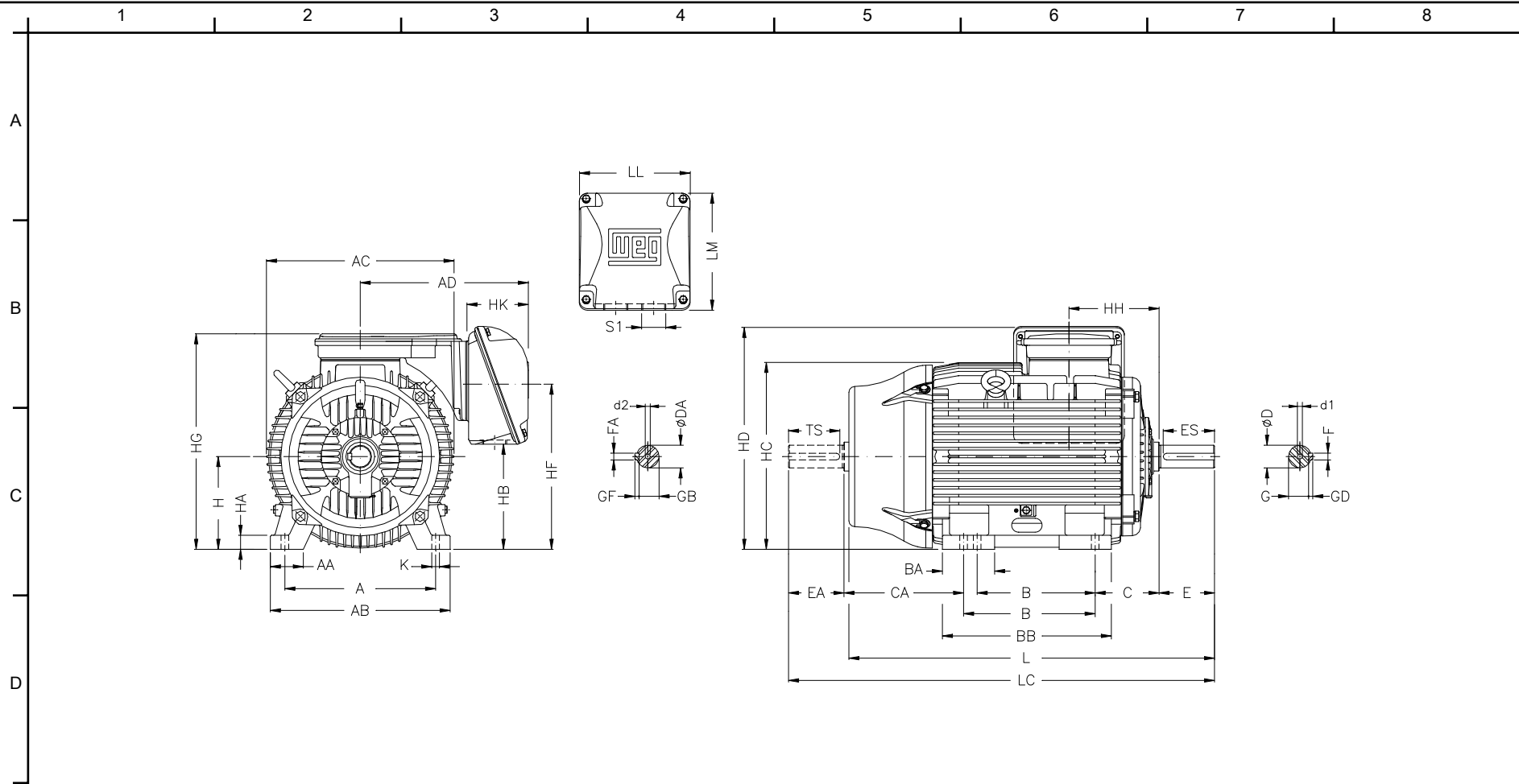
Customer :  
Product line : Three-Phase: W22 IE2 IEC Tru-Metric - TEFC (IP55) Cast Iron Frame

Frame	: 225S/M	Locked rotor current (I <sub>l</sub> /I <sub>ln</sub> )	: 6.9
Output	: 30 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 885	Design	: N
Voltage	: 460 V	Locked rotor torque	: 220 %
Rated current	: 36.9 A	Breakdown torque	: 270 %
Insulation class	: F		

Notes:

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	A 356	AA 80	AB 436	AC 455	AD 408
	B 286/311	BA 124	BB 412	C 149	CA 319/294
E	D 60m6	E 140	ES 125	F 18	G 53
	GD 11	DA 60m6	EA 140	TS 125	FA 18
	GB 53	GF 11	H 225	HA 34	HB 255
	HC 453	HD 550	HF 403	HG 523	HH 212
	HK 153	K 18.5	L 886	LC 1034	LL 269
F	LM 285	S1 2XM50X1,5	d1 DM20	d2 DM20	Flange FF-400
	LA 18	M 400	N 350	P 450	T 5
	S 19	Angle 22°30'	Holes 8		

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Customer:

Three-Phase: W22 IE2 IEC Tru-Metric - TEFC (IP55) Cast Iron Frame

Three-phase induction motor  
Frame 225S/M - IP55

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