



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 : 13209EP3Y315L-W22

List Price : \$30,078

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 : 315L  
Output : 175 HP  
Frequency : 60 Hz  
Poles : 8  
Full load speed : 890  
Slip : 1.11 %  
Voltage : 460 V  
Rated current : 217 A  
Locked rotor current : 1540 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.1  
No-load current : 107 A  
Full load torque : 1019 lb.ft  
Locked rotor torque : 230 %  
Breakdown torque : 250 %  
Design : N  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 20 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 2981 lb  
Moment of inertia : 312.96 sq.ft.lb  
Noise level : 71 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6319 C3	6316 C3	100%	0.80	95.4
Regreasing interval	17000 h	20000 h	75%	0.74	95.0
Grease amount	45 g	34 g	50%	0.61	94.5

Notes:

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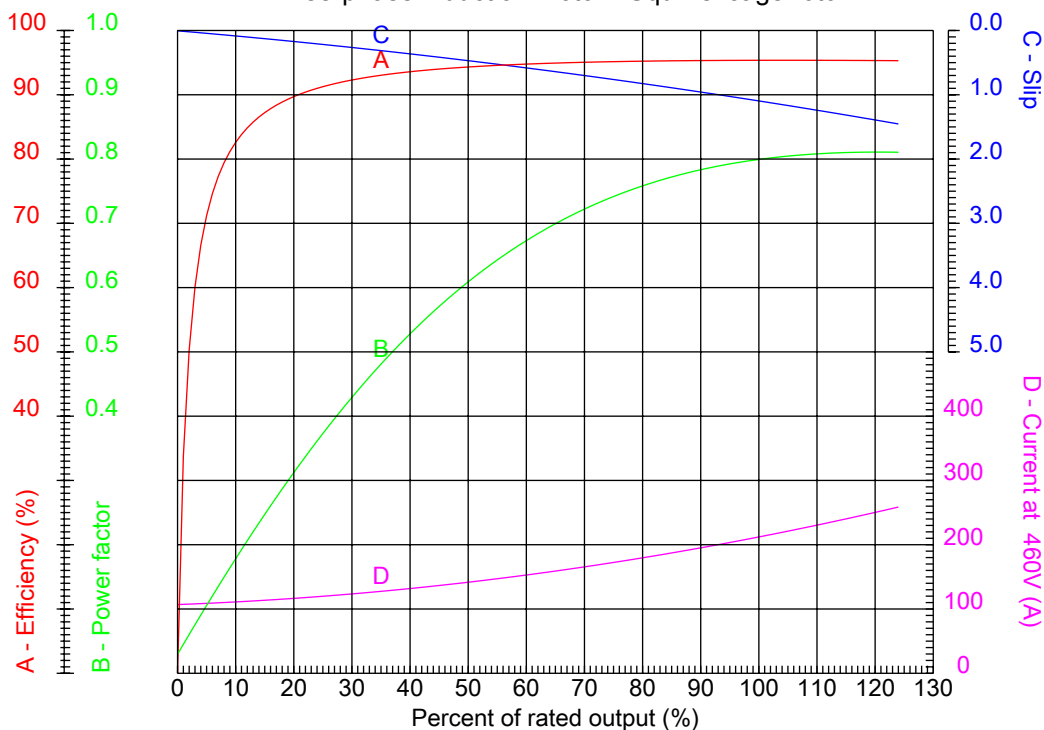
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### PERFORMANCE CURVES RELATED TO RATED OUTPUT Three-phase induction motor - Squirrel cage rotor



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

Frame : 315L	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) : 7.1
Output : 175 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 890	Design : N
Voltage : 460 V	Locked rotor torque : 230 %
Rated current : 217 A	Breakdown torque : 250 %
Insulation class : F	

Notes:

Performed by

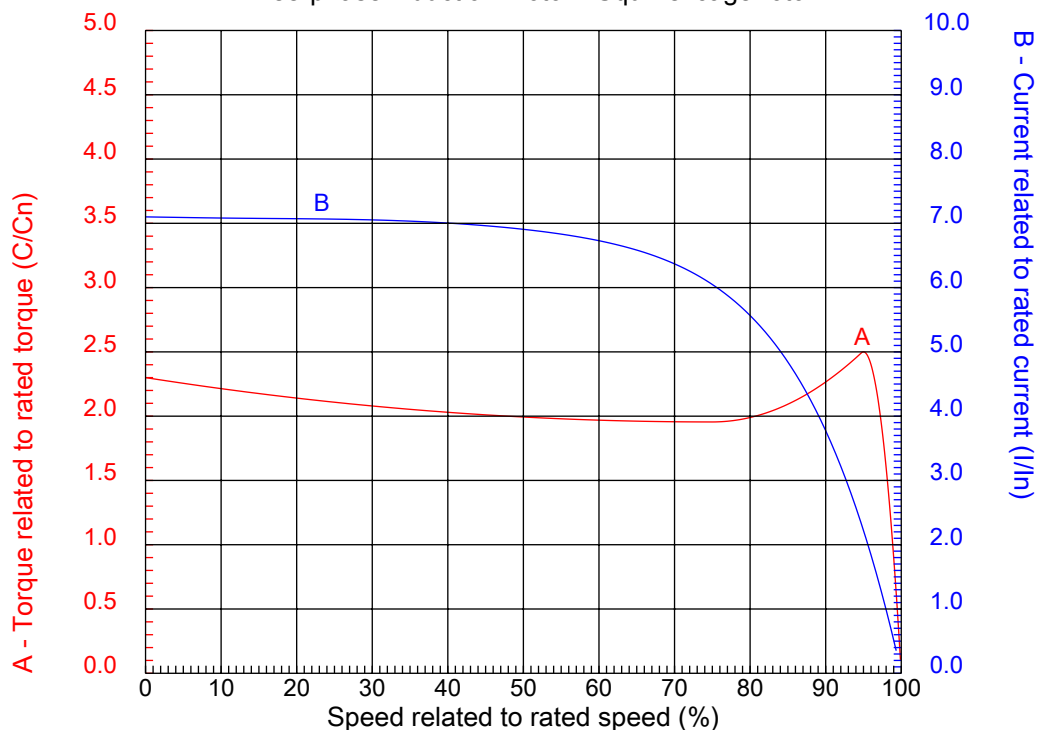
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### CHARACTERISTIC CURVES RELATED TO SPEED Three-phase induction motor - Squirrel cage rotor



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

Frame	: 315L	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.1
Output	: 175 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 890	Design	: N
Voltage	: 460 V	Locked rotor torque	: 230 %
Rated current	: 217 A	Breakdown torque	: 250 %
Insulation class	: F		

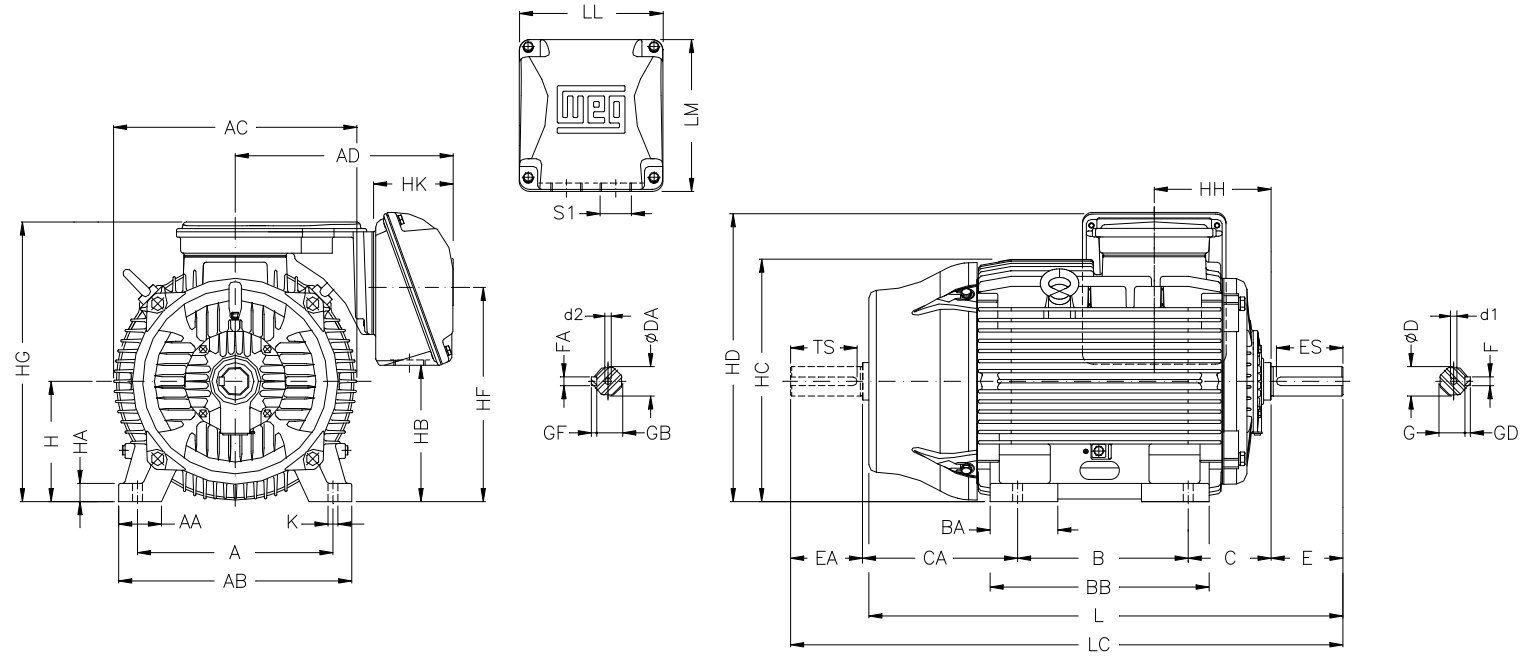
Notes:

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1 2 3 4 5 6 7 8

A  
B  
C  
D



	A	AA	AB	AC	AD
	508	120	630	657	589
	B	BA	BB	C	CA
	508	219	752	216	497
E	D	E	ES	F	G
	80m6	170	160	22	71
	GD	DA	EA	TS	FA
	14	65m6	140	125	18
	GB	GF	H	HA	HB
	58	11	315	48	336
	HC	HD	HF	HG	HH
	644	774	575	760	284
	HK	K	L	LC	LL
	215	28	1383	1535	404
F	LM	S1	d1	d2	Flange
	438	2XM63X1,5	DM20	DM20	FF-600
	LA	M	N	P	T
	22	600	550	660	6
	S	Angle	Holes		
	24	22°30'	8		

Notes:

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Checked:

Customer:

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

Three-phase induction motor  
Frame 315L - IP55

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