



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 : 33018EP3Y355M/L-W22

List Price : \$57,640

Notes:

Performed by:

Checked:



No.:

Date: 24-DEC-2012

## 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 : 355M/L  
Output : 450 HP  
Frequency : 60 Hz  
Poles : 4  
Full load speed : 1790  
Slip : 0.56 %  
Voltage : 460 V  
Rated current : 503 A  
Locked rotor current : 3970 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.9  
No-load current : 180 A  
Full load torque : 1302 lb.ft  
Locked rotor torque : 260 %  
Breakdown torque : 260 %  
Design : N  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 17 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 3901 lb  
Moment of inertia : 233.59 sq.ft.lb  
Noise level : 81 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6322 C3	6319 C3	100%	0.86	95.8
Regreasing interval	6000 h	8000 h	75%	0.81	95.8
Grease amount	60 g	45 g	50%	0.70	95.0

Notes:

Performed by

Checked

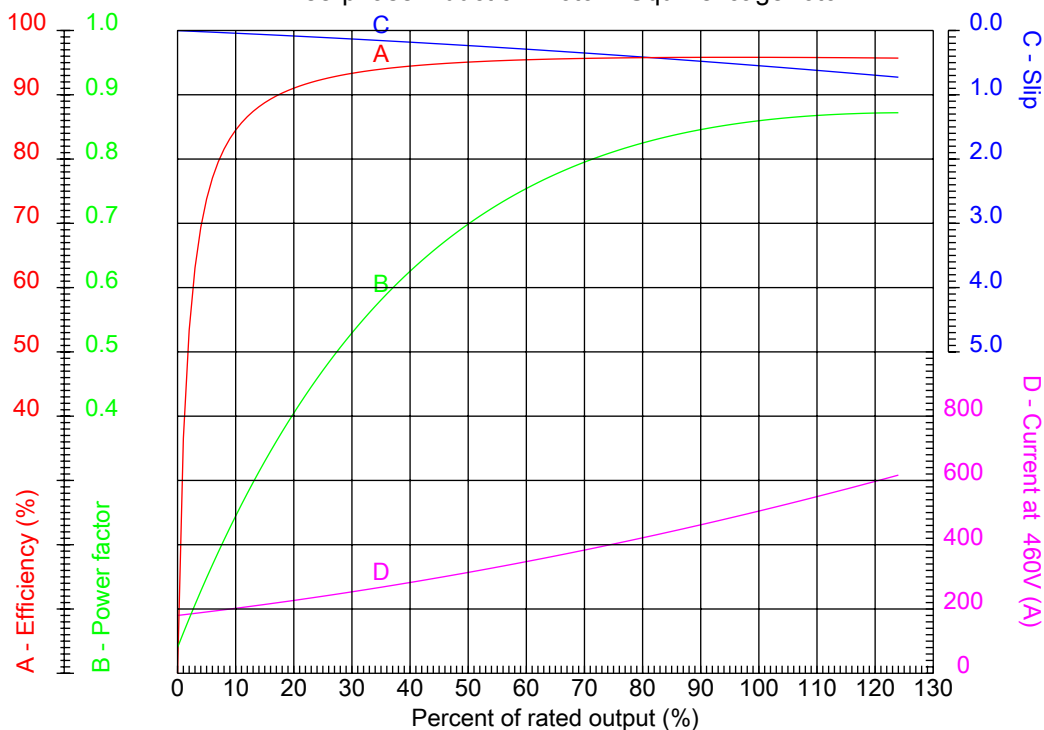


No.:

Date: 24-DEC-2012

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	: 355M/L	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.9
Output	: 450 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1790	Design	: N
Voltage	: 460 V	Locked rotor torque	: 260 %
Rated current	: 503 A	Breakdown torque	: 260 %
Insulation class	: F		

Notes:

Performed by

Checked

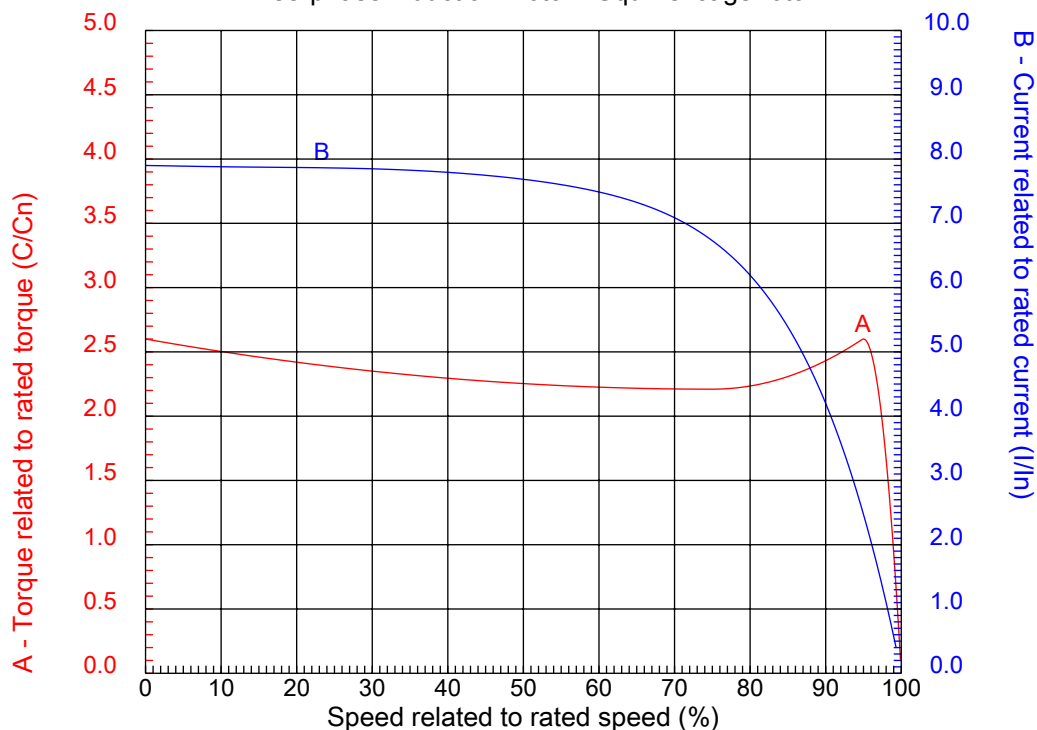


No.:

Date: 24-DEC-2012

### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



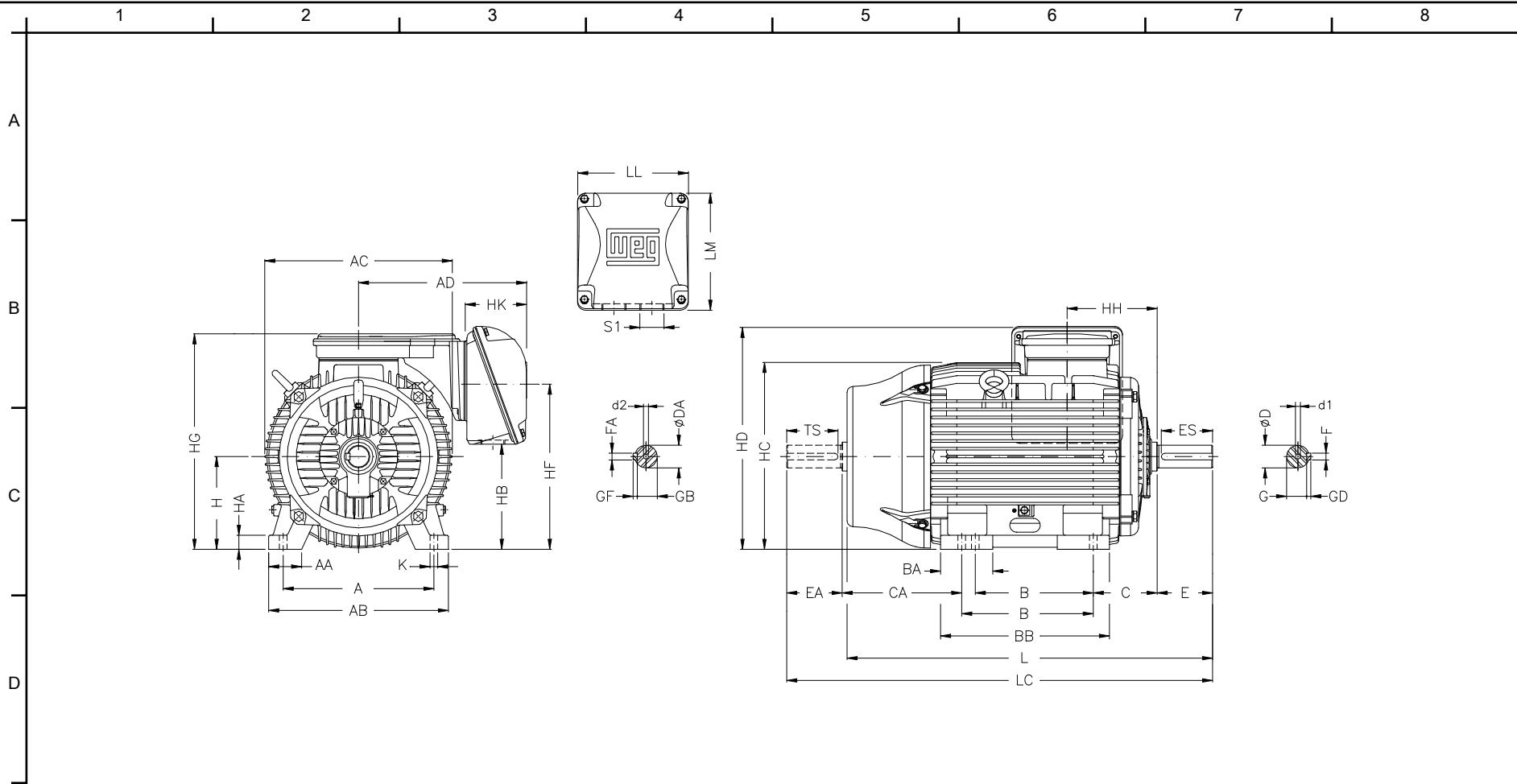
Customer :  
Product line : Three-Phase: W22 IE2 IEC Tru-Metric - TEFC (IP55) Cast Iron Frame

Frame	: 355M/L	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.9
Output	: 450 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1790	Design	: N
Voltage	: 460 V	Locked rotor torque	: 260 %
Rated current	: 503 A	Breakdown torque	: 260 %
Insulation class	: F		

Notes:

Performed by

Checked



	A 610	AA 140	AB 750	AC 736	AD 619
	B 560/630	BA 230	BB 760	C 254	CA 483/413
E	D 100m6	E 210	ES 200	F 28	G 90
	GD 16	DA 80m6	EA 170	TS 160	FA 22
	GB 71	GF 14	H 355	HA 50	HB 449
	HC 723	HD 898	HF 700	HG 885	HH 340
	HK 225	K 28	L 1482	LC 1677	LL 404
F	LM 424	S1 2XM63X1,5	d1 DM24	d2 DM20	Flange FF-740
	LA 22	M 740	N 680	P 800	T 6
	S 24	Angle 22°30'	Holes 8		

Notes:

Performed by:

Checked:

Customer:

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

Three-phase induction motor  
Frame 355M/L - IP55

24-DEC-2012

