



No.:

Date: 24-AUG-2017

Customer :

## TECHNICAL PROPOSAL

## Three-phase induction motor - Squirrel cage rotor

Product line : W22 Mining Motor - High Efficiency E3

Catalog Number :

List Price : \$

Notes:

Performed by:

Checked:



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## DATA SHEET

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

Customer :  
Product line : W22 Mining Motor - High Efficiency E3

Frame : 200L  
Output : 30 kW  
Frequency : 50 Hz  
Poles : 4  
Full load speed : 1480 rpm  
Slip : 1.33 %  
Voltage : 415 V  
Rated current : 55.4 A  
Locked rotor current : 476 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 8.6  
No-load current : 29.4 A  
Full load torque : 194 Nm  
Locked rotor torque : 300 %  
Breakdown torque : 330 %  
Design : ---  
Insulation class : H  
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 m  
Degree of Protection : IP66  
Approximate weight : 243 kg  
Moment of inertia : 0.34685 kgm<sup>2</sup>  
Noise level : 63 dB(A)

	D.E.	N.D.E.
Bearings	6312 C3	6212 C3
Regreasing interval	20000 h	20000 h
Grease amount	21 g	13 g

Load	Power factor	Efficiency (%)
100%	0.80	94.2
75%	0.72	93.9
50%	0.60	92.5

Notes:

Determining losses and efficiency according to IEC 34-2 A.

Performed by

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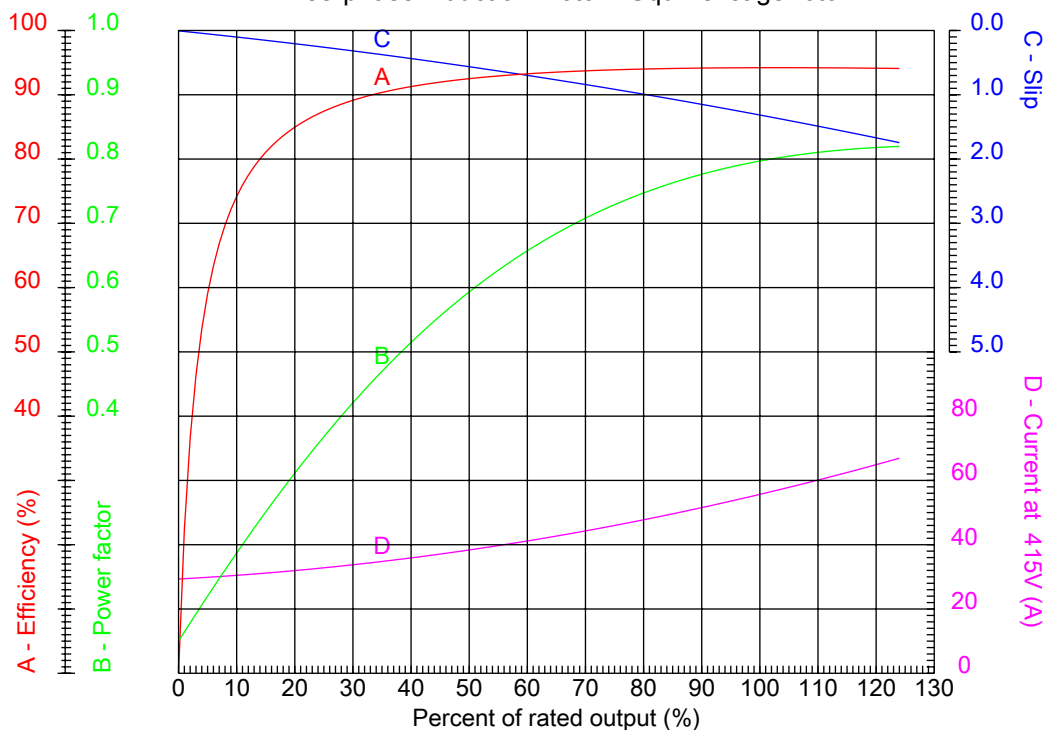


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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : W22 Mining Motor - High Efficiency E3

Frame	: 200L	Locked rotor current (I <sub>L</sub> /I <sub>n</sub> )	: 8.6
Output	: 30 kW	Duty cycle	: S1
Frequency	: 50 Hz	Service factor	: 1.15
Full load speed	: 1480 rpm	Design	: ---
Voltage	: 415 V	Locked rotor torque	: 300 %
Rated current	: 55.4 A	Breakdown torque	: 330 %
Insulation class	: H		

Notes:

Performed by

Checked

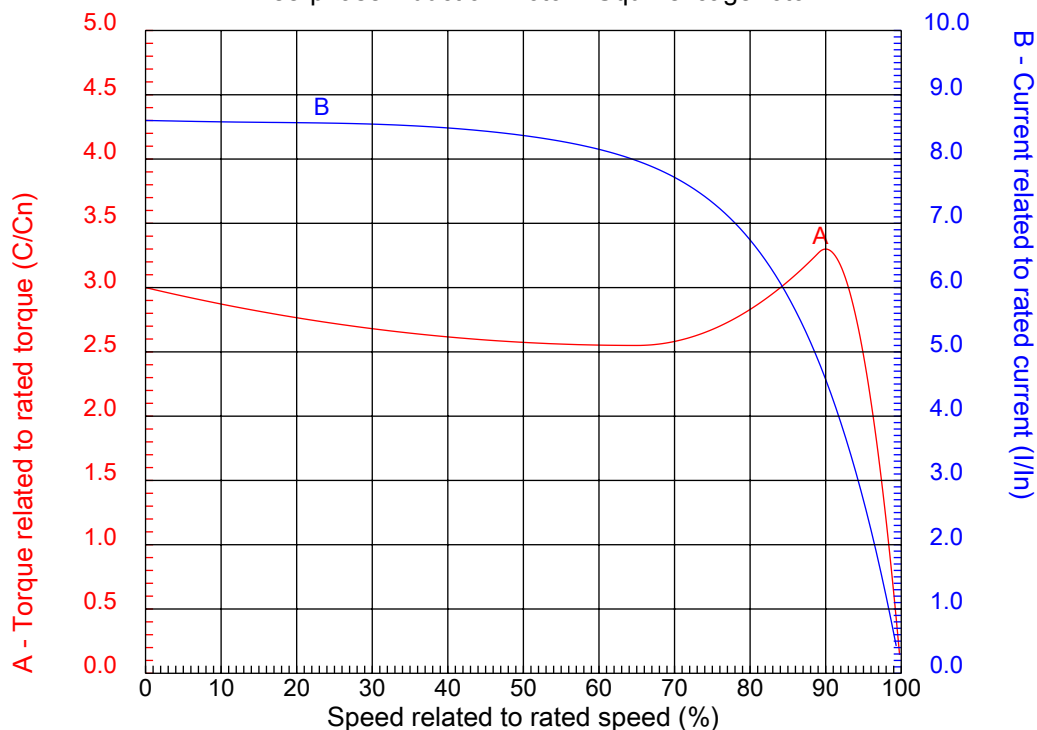


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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



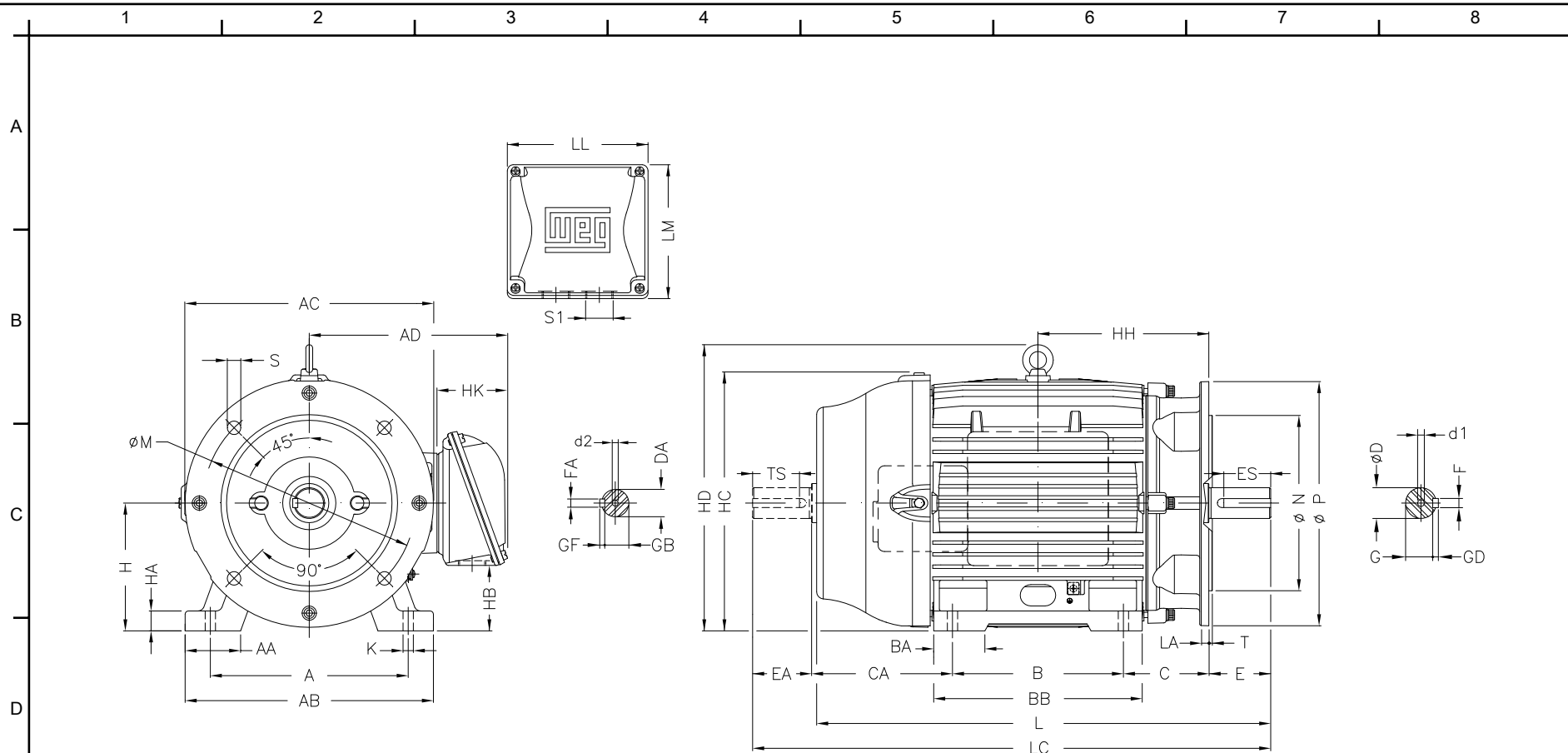
Customer :  
Product line : W22 Mining Motor - High Efficiency E3

Frame	: 200L	Locked rotor current (I <sub>L</sub> /I <sub>n</sub> )	: 8.6
Output	: 30 kW	Duty cycle	: S1
Frequency	: 50 Hz	Service factor	: 1.15
Full load speed	: 1480 rpm	Design	: ---
Voltage	: 415 V	Locked rotor torque	: 300 %
Rated current	: 55.4 A	Breakdown torque	: 330 %
Insulation class	: H		

Notes:

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E	A 318	AA 82	AB 385	AC 402	AD 319
	B 305	BA 82	BB 370	C 133	CA 222
	D 55m6	E 110	ES 80	F 16	G 49
	GD 10	DA 48k6	EA 110	TS 80	FA 14
	GB 42.5	GF 9	H 200	HA 30	HB 119
F	HC 407	HD 464	HF 218	HH 285.5	HK 119.5
	K 18.5	L 767	LC 880	LL 230	LM 220
	S1 2xM50x1,5	d1 DM20	d2 DM20	Flange FF-350	LA 18
	M 350	N 300	P 400	T 5	S 19
	Angle 45°	Holes 4			

Notes:

Performed by:

Checked:

Customer:

W22 Mining Motor - High Efficiency E3

Three-phase induction motor  
Frame 200L - IP66

24-AUG-2017

