



No.:

Date: 05-SEP-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:



No.:

Date: 05-SEP-2017

**DATA SHEET****Three-phase induction motor - Squirrel cage rotor**

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

Frame : 180M  
Output : 18.5 kW  
Frequency : 50 Hz  
Poles : 4  
Full load speed : 1475 rpm  
Slip : 1.67 %  
Voltage : 415 V  
Rated current : 34.4 A  
Locked rotor current : 275 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 8.0  
No-load current : 18.5 A  
Full load torque : 120 Nm  
Locked rotor torque : 310 %  
Breakdown torque : 310 %  
Design : ---  
Insulation class : H  
Temperature rise : 80 K  
Locked rotor time : 12 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000 m  
Degree of Protection : IP66  
Approximate weight : 175 kg  
Moment of inertia : 0.19143 kgm<sup>2</sup>  
Noise level : 61 dB(A)

	D.E.	N.D.E.
Bearings	6311 C3	6211 C3
Regreasing interval	20000 h	20000 h
Grease amount	18 g	11 g

Load	Power factor	Efficiency (%)
100%	0.80	93.4
75%	0.73	93.0
50%	0.60	91.4

Notes:

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

Performed by

Checked

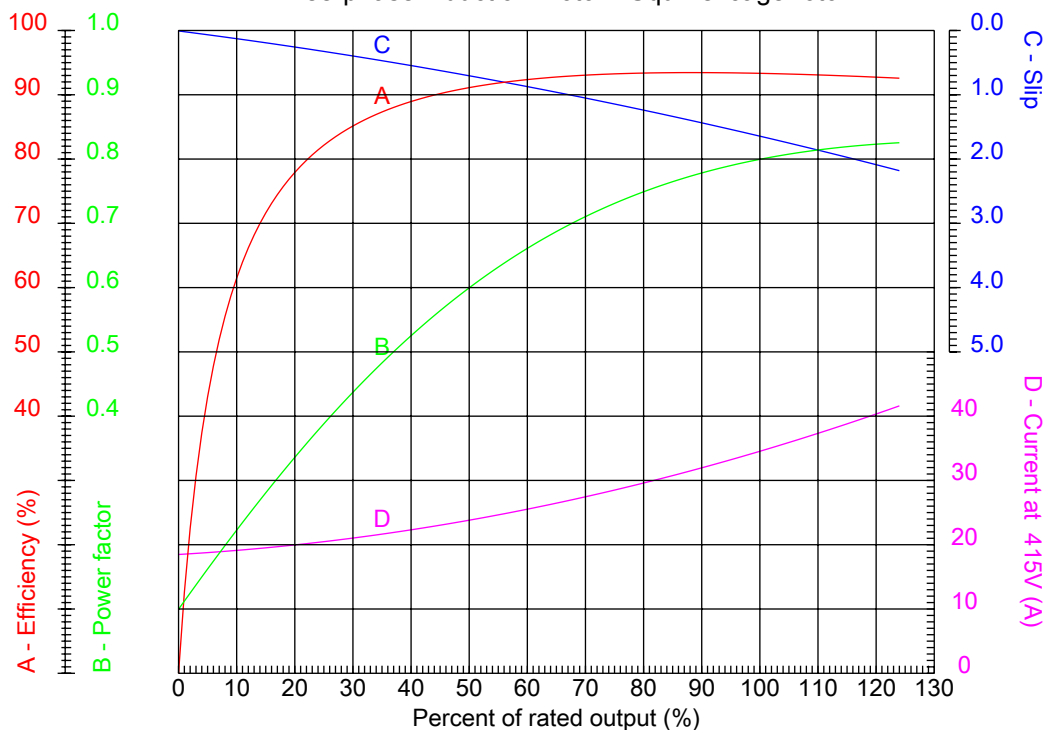


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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 180M	Locked rotor current (I <sub>L</sub> /I <sub>n</sub> )	: 8.0
Output	: 18.5 kW	Duty cycle	: S1
Frequency	: 50 Hz	Service factor	: 1.15
Full load speed	: 1475 rpm	Design	: ---
Voltage	: 415 V	Locked rotor torque	: 310 %
Rated current	: 34.4 A	Breakdown torque	: 310 %
Insulation class	: H		

Notes:

Performed by

Checked

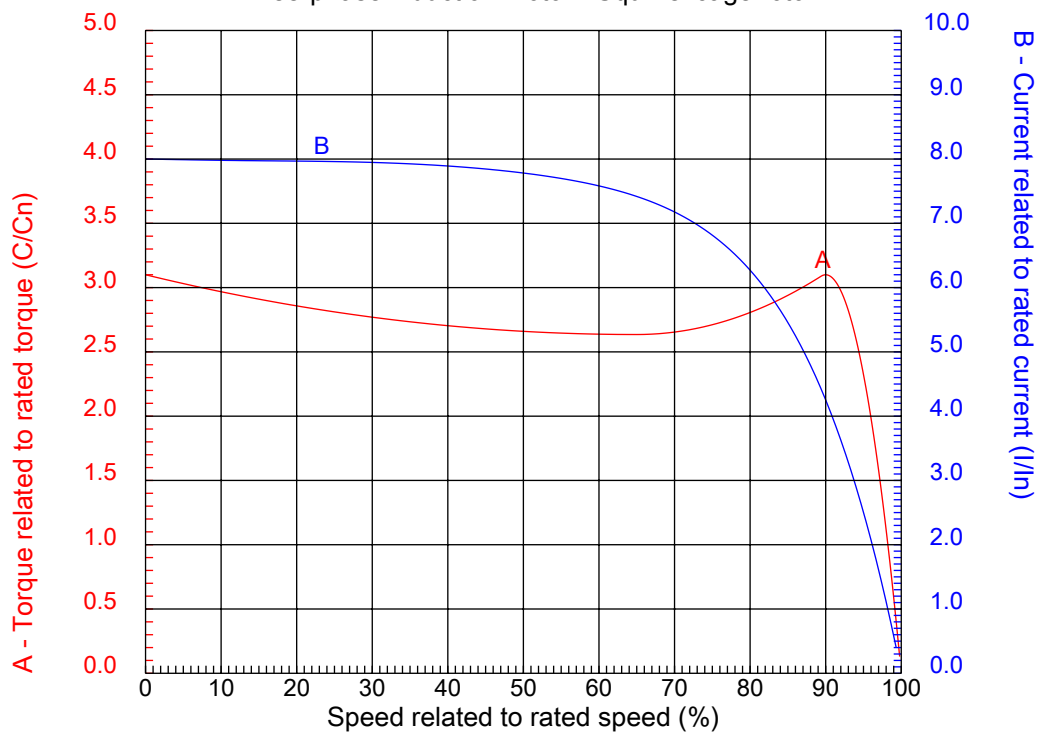


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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



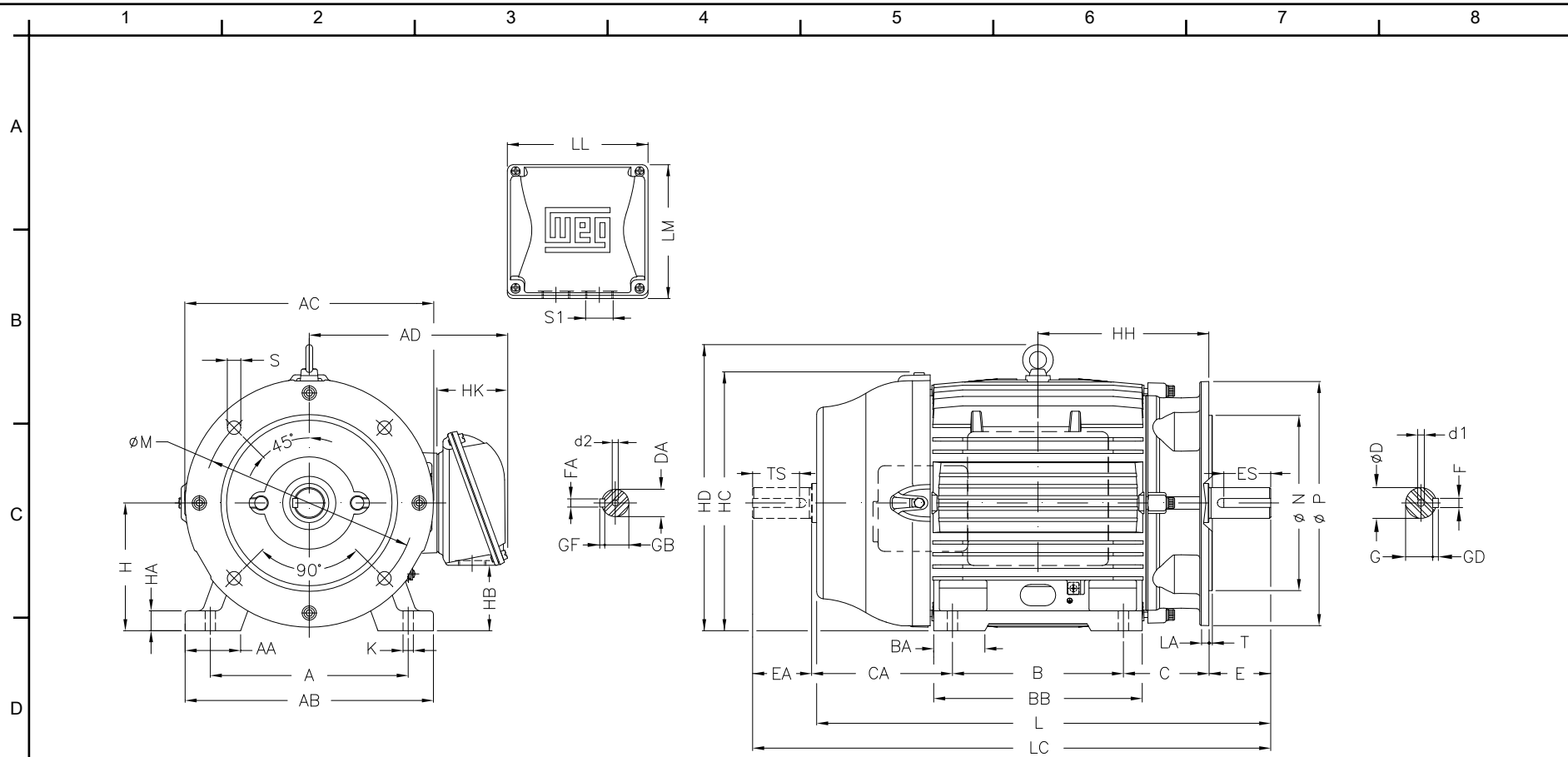
Customer :  
Product line : W22 Mining Motor - High Efficiency E3

Frame	: 180M	Locked rotor current (I <sub>L</sub> /I <sub>n</sub> )	: 8.0
Output	: 18.5 kW	Duty cycle	: S1
Frequency	: 50 Hz	Service factor	: 1.15
Full load speed	: 1475 rpm	Design	: ---
Voltage	: 415 V	Locked rotor torque	: 310 %
Rated current	: 34.4 A	Breakdown torque	: 310 %
Insulation class	: H		

Notes:

Performed by

Checked



E	A 279	AA 78	AB 350	AC 360	AD 281	Notes:
	B 241	BA 70	BB 294	C 121	CA 200	
	D 48k6	E 110	ES 80	F 14	G 42.5	Performed by:
	GD 9	DA 48k6	EA 110	TS 80	FA 14	Checked:
	GB 42.5	GF 9	H 180	HA 28	HB 92	Customer:
F	HC 366	HD 413	HF 180	HH 241.5	HK 101	W22 Mining Motor - High Efficiency E3
	K 14.5	L 664	LC 782	LL 198.5	LM 190	
	S1 2xM40x1,5	d1 DM16	d2 DM16	Flange FF-300	LA 18	Three-phase induction motor Frame 180M - IP66
	M 300	N 250	P 350	T 5	S 19	
	Angle 45°	Holes 4				

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