



No.:

Date: 27-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - NEMA Premium

Catalog Number : 00512ET3E215JM-W22

List Price : \$1,769

Notes:

Performed by:

Checked:



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## DATA SHEET

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

Customer :  
Product line : Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - NEMA Premium

Frame : 215JM  
Output : 5 HP  
Frequency : 60 Hz  
Poles : 6  
Full load speed : 1160  
Slip : 3.33 %  
Voltage : 208-230/460 V  
Rated current : 15.1-13.7/6.83 A  
Locked rotor current : 90.1/45.0 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.6  
No-load current : 7.50/3.75 A  
Full load torque : 22.3 lb.ft  
Locked rotor torque : 190 %  
Breakdown torque : 240 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 57 s (hot)  
Service factor : 1.25  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 162 lb  
Moment of inertia : 1.4717 sq.ft.lb  
Noise level : 55 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6309 Z-C3	6207 ZZ	100%	0.76	89.5
Regreasing interval	20000 h	---	75%	0.70	89.5
Grease amount	13 g	---	50%	0.58	88.5

Notes:

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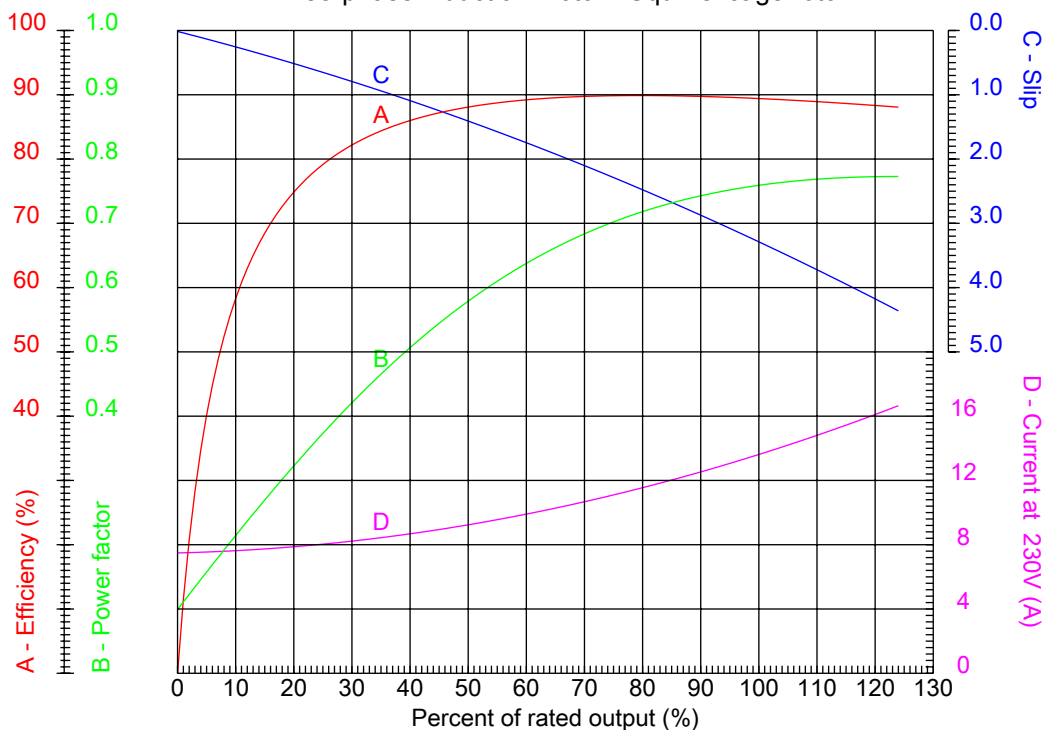
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PERFORMANCE CURVES RELATED TO RATED OUTPUT  
Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - NEMA Premium

Frame	: 215JM	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.6
Output	: 5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1160	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 190 %
Rated current	: 15.1-13.7/6.83 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:

Performed by

Checked

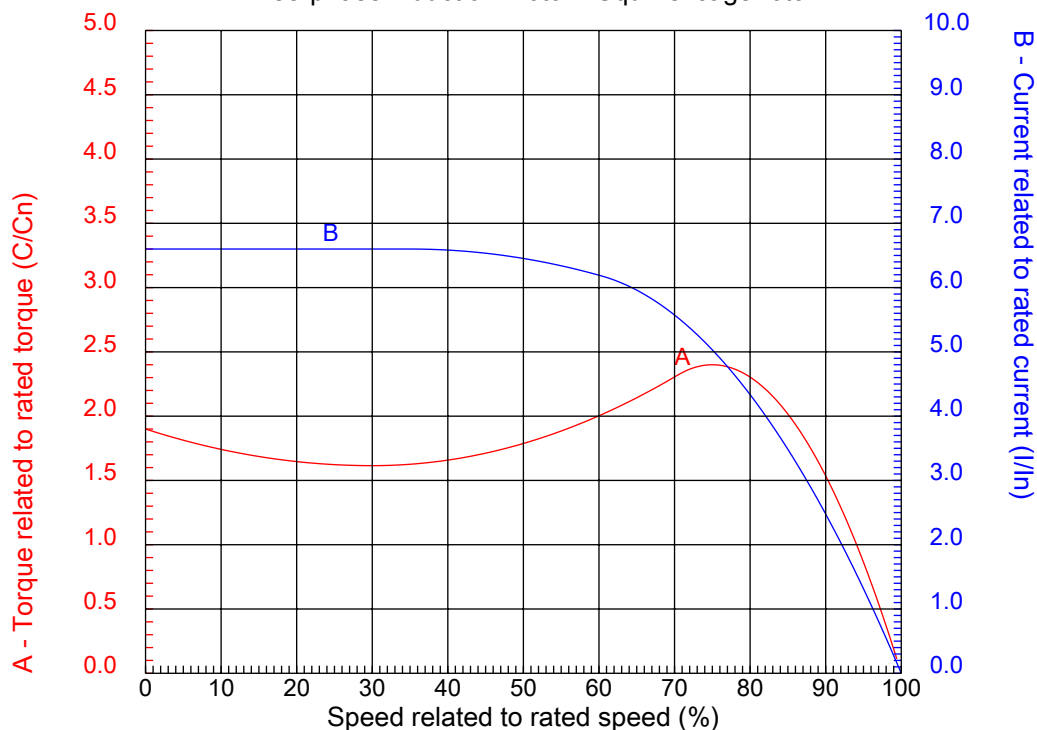


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



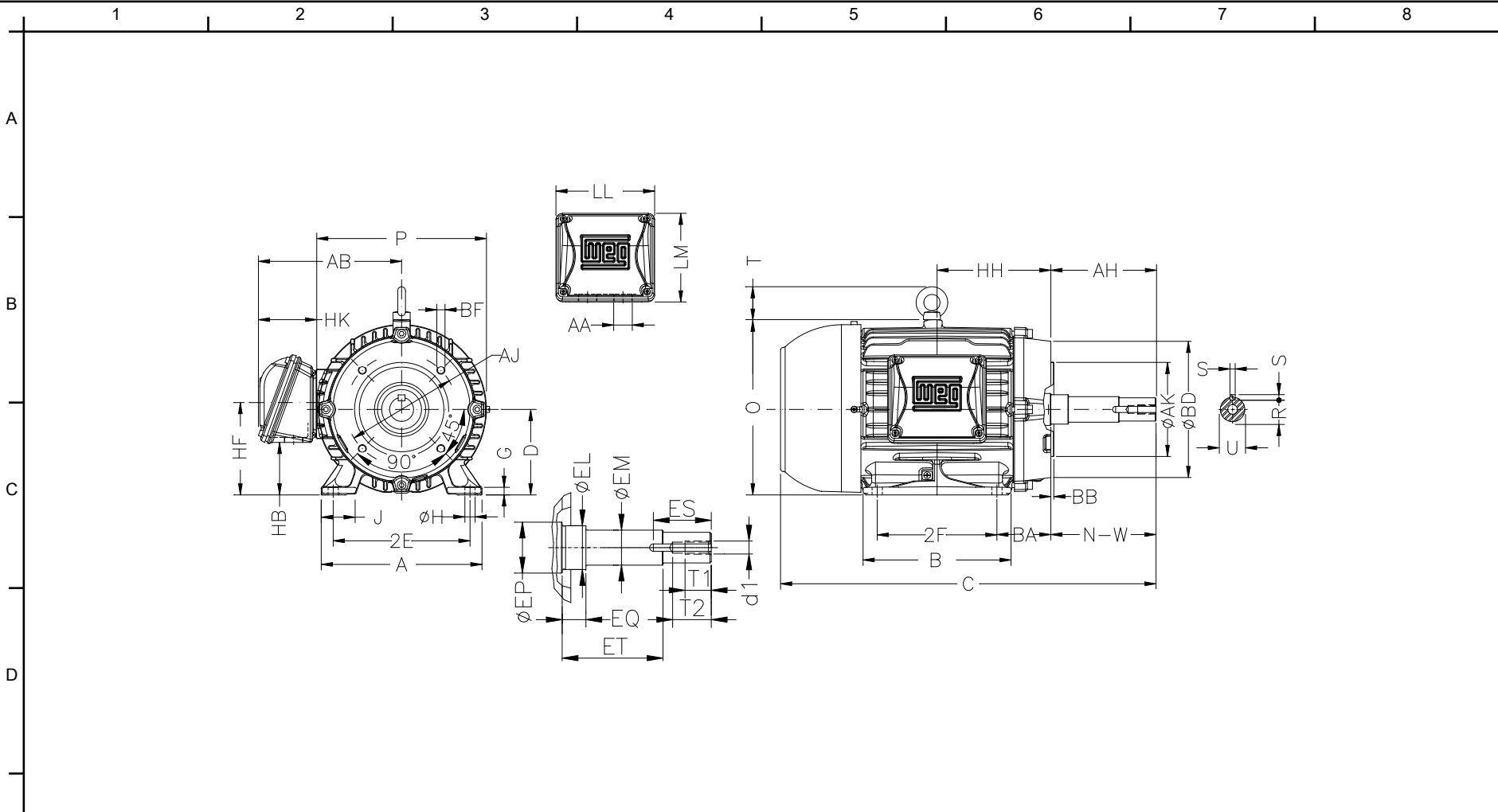
Customer :  
Product line : Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - NEMA Premium

Frame	: 215JM	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.6
Output	: 5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1160	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 190 %
Rated current	: 15.1-13.7/6.83 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:

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Notes:

2E 8.500	J 1.789	A 9.764	P 10.236	AB 8.583
2F 7.000	K 2.165	B 8.858	BA 3.500	D 5.250
G 0.646	O 10.841	T 1.772	HD 12.613	H 0.410
AA NPT 1"	ER 4.258	EQ 0.630	ET 2.880	U 0.874
EM 1.000	EL 1.250	EP 1.770	ES 1.654	t1 0.748
t2 1.102	C 20.174	Flange FC-184	AJ 7.252	AK 8.500
BD 8.858	BF UNC 1/2"x13	BB 0.248	BC ---	AH 4.258

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Customer:

Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - NEMA Premium

Three-phase induction motor  
Frame 215JM - IP55

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