



No.:

Date: 26-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 00152OT3E182JM

List Price : \$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 - "JM" Type - ODP - NEMA Premium

Frame : 182JM  
Output : 1.5 HP  
Frequency : 60 Hz  
Poles : 6  
Full load speed : 1160  
Slip : 3.33 %  
Voltage : 208-230/460 V  
Rated current : 5.11-4.62/2.31 A  
Locked rotor current : 30.0/15.0 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.5  
No-load current : 2.80/1.40 A  
Full load torque : 6.70 lb.ft  
Locked rotor torque : 210 %  
Breakdown torque : 280 %  
Design : B  
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 : IP21  
Approximate weight : 44 lb  
Moment of inertia : 0.23825 sq.ft.lb  
Noise level : ---

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6207 ZZ	6205 ZZ	100%	0.69	86.5
Regreasing interval	---	---	75%	0.62	86.5
Grease amount	---	---	50%	0.49	84.0

Notes:

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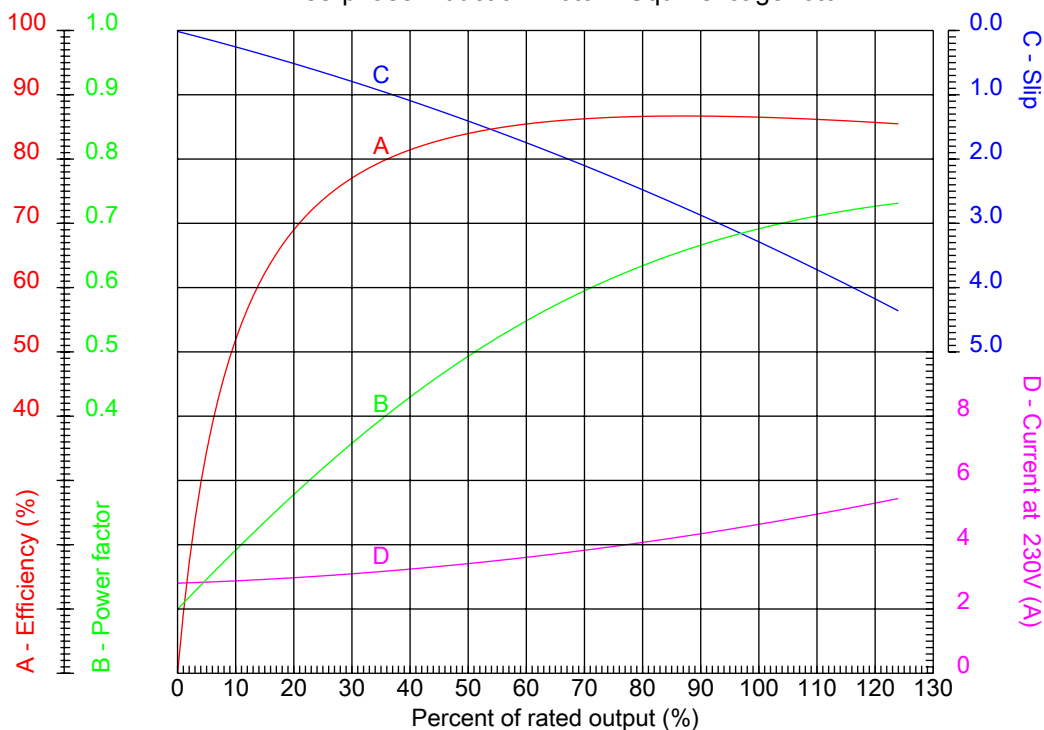
Checked



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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 - "JM" Type - ODP - NEMA Premium

Frame	: 182JM	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.5
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1160	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 210 %
Rated current	: 5.11-4.62/2.31 A	Breakdown torque	: 280 %
Insulation class	: F		

Notes:

Performed by

Checked

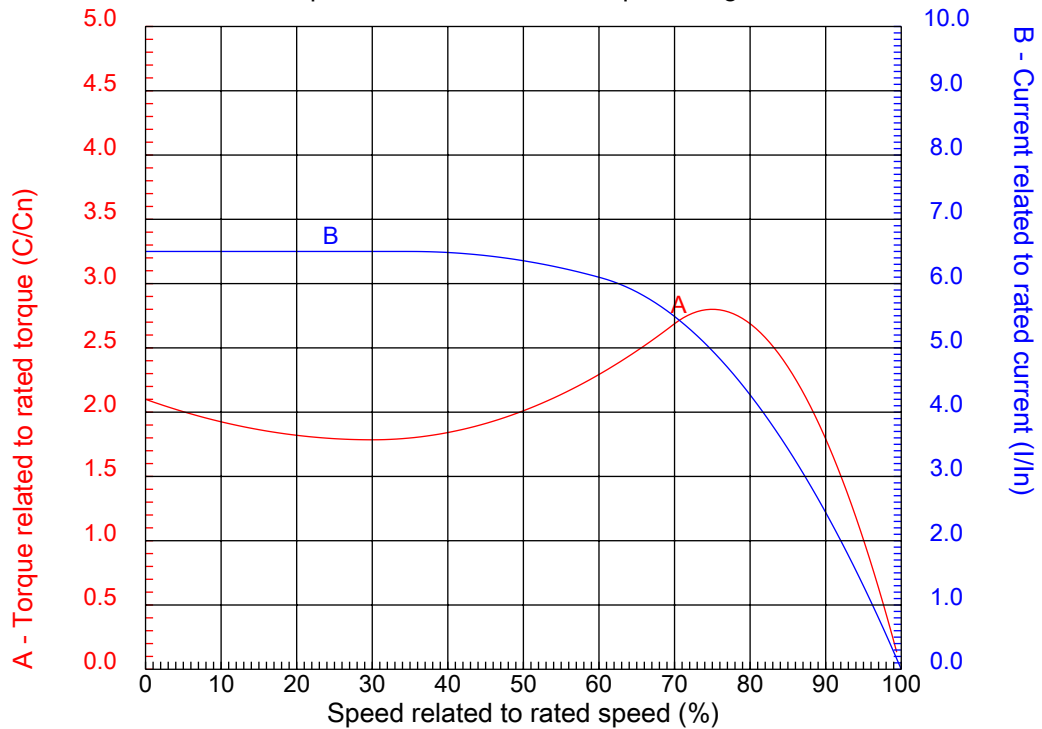


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



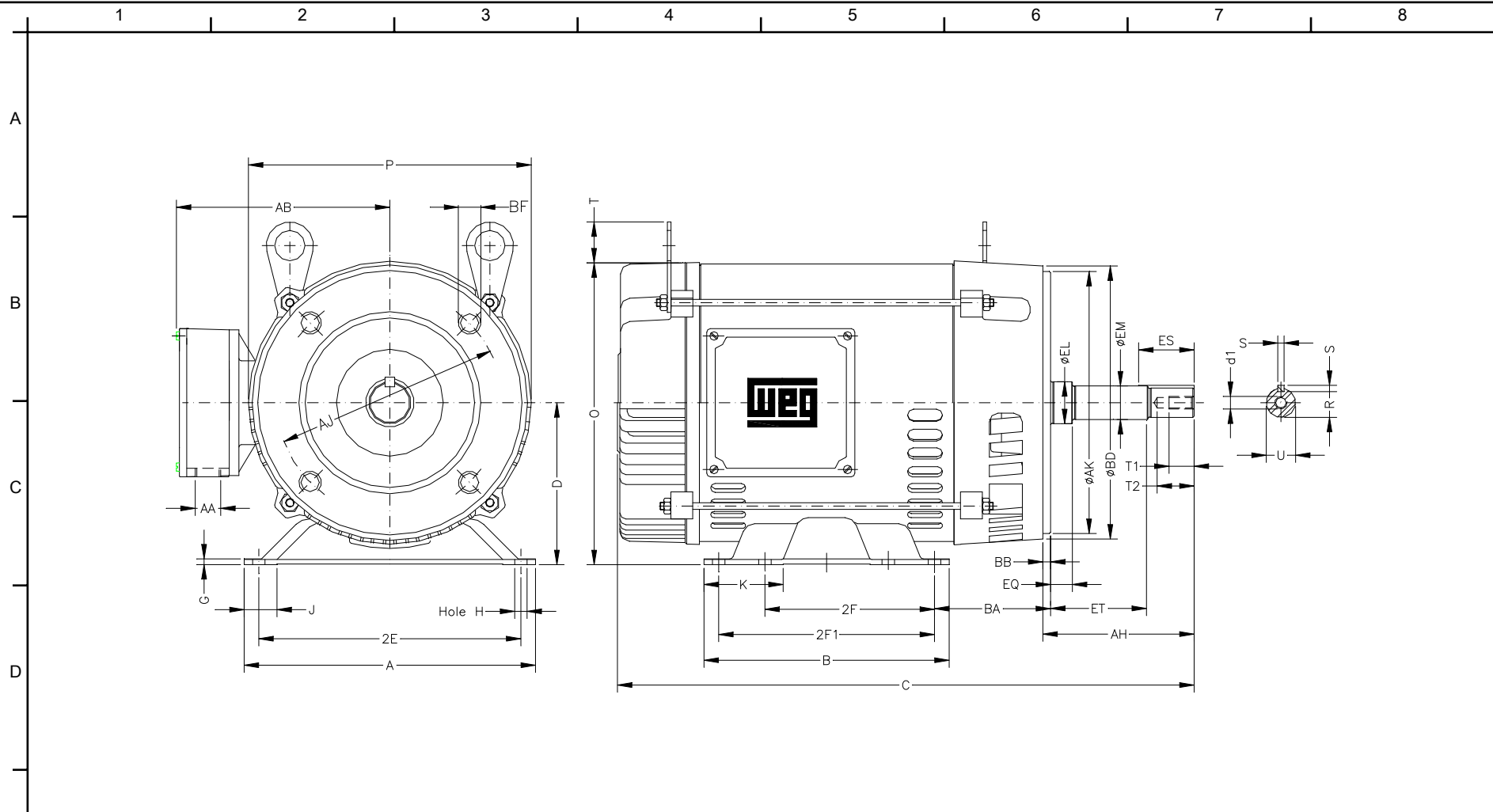
Customer :  
Product line : Close Coupled Pump : Three-Phase - "JM" Type - ODP - NEMA Premium

Frame	: 182JM	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.5
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1160	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 210 %
Rated current	: 5.11-4.62/2.31 A	Breakdown torque	: 280 %
Insulation class	: F		

Notes:

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E	2E 7.500	A 8.661	2F 4.500/5.500	B 6.299	J 1.171
	BA 2.750	D 4.500	K 1.988	G 0.187	O 8.307
	P 7.637	T 1.614	HD 9.921	AB 6.574	H 0.406
	AA NPT 3/4"	EQ 0.630	ET 2.880	U 0.874	EM 1.000
	EL 1.250	S 0.187	EP 1.376	R 0.767	ES 1.575
F	d1 EUNC 3/8"-16	t1 0.748	t2 1.102	C 14.527	Flange FC-149
	AJ 5.874	AK 4.500	BD 6.496	BF UNC 3/8"x16	BB 0.157
	BC	AH 4.258			

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Customer:

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

Three-phase induction motor  
Frame 182JM - IP21

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