



No.:

Date: 26-DEC-2012

Customer :

TECHNICAL PROPOSAL

Single-phase induction motor - Squirrel cage rotor

Product line : Close Coupled Pump : Single-Phase - "JM" Type - TEFC - Standard Efficiency

Catalog Number : 00156ES1E143JM

List Price : \$729

Notes:

Performed by:

Checked:



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## DATA SHEET

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

Customer :  
Product line : Close Coupled Pump : Single-Phase - "JM" Type - TEFC - Standard Efficiency

Frame : 143JM  
Output : 1.5 HP  
Frequency : 60 Hz  
Poles : 2  
Full load speed : 3530  
Slip : 1.94 %  
Voltage : 208-230/460 V  
Rated current : 7.80/3.90 A  
Locked rotor current : 58.5/29.3 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.5  
No-load current : 4.40/2.20 A  
Full load torque : 2.20 lb.ft  
Locked rotor torque : 220 %  
Breakdown torque : 270 %  
Design : ---  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 6 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 51 lb  
Moment of inertia : 0.04699 sq.ft.lb  
Noise level : ---

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6206 ZZ	6203 ZZ	100%	0.81	73.0
Regreasing interval	---	---	75%	0.76	72.0
Grease amount	---	---	50%	0.66	65.0

Notes:

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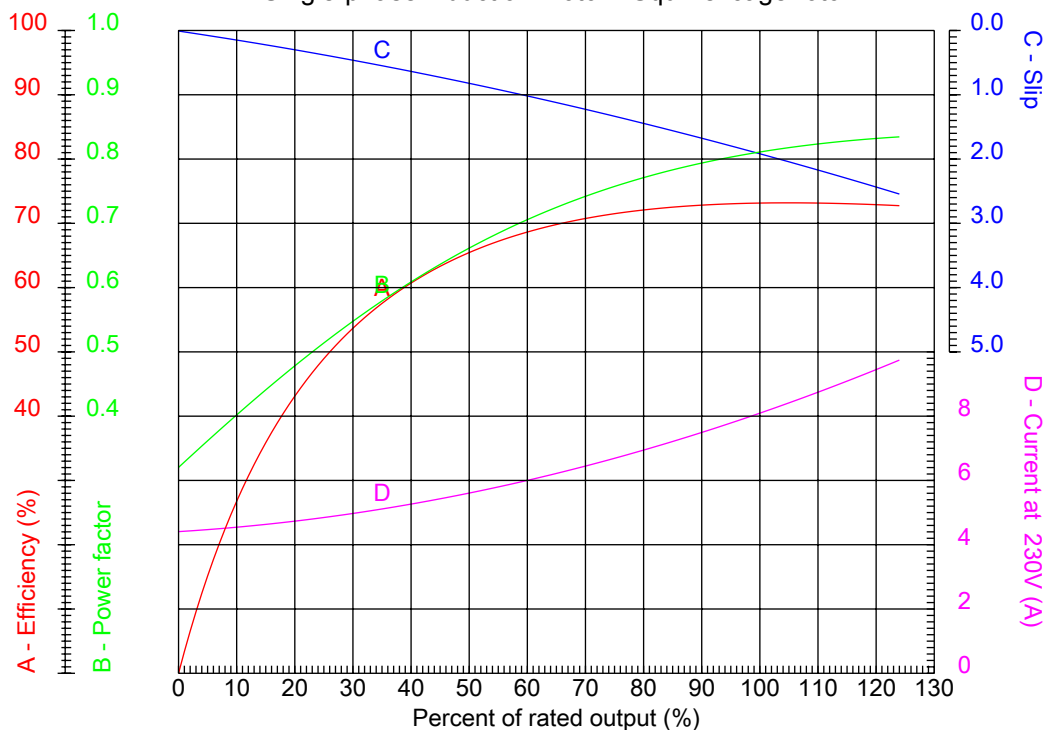
Checked



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



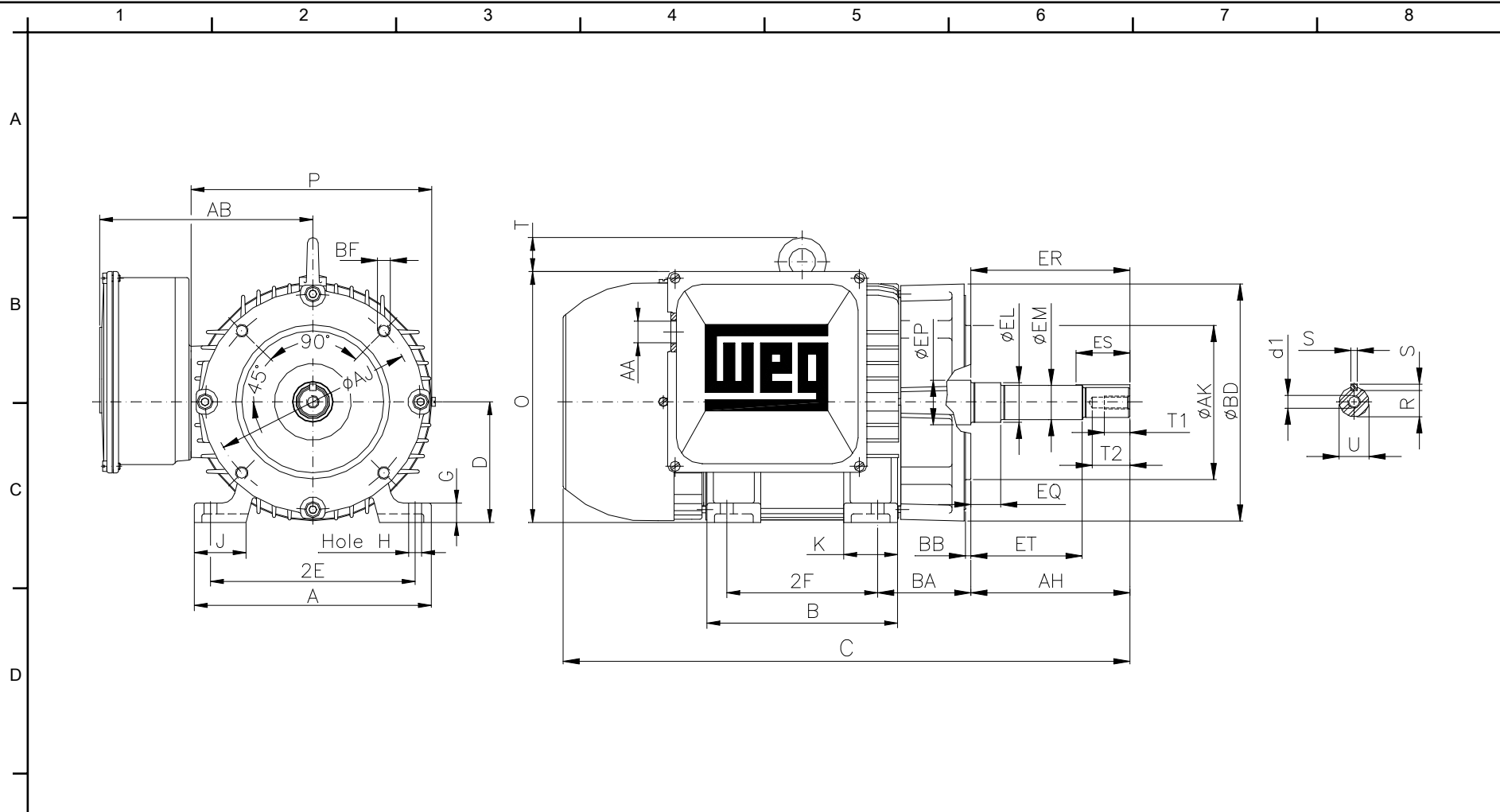
Customer :  
Product line : Close Coupled Pump : Single-Phase - "JM" Type - TEFC - Standard Efficiency

Frame	: 143JM	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.5
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3530	Design	: ---
Voltage	: 208-230/460 V	Locked rotor torque	: 220 %
Rated current	: 7.80/3.90 A	Breakdown torque	: 270 %
Insulation class	: F		

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E	2E 5.500	2F 4.000	H 0.344	BA 2.560	A 6.457
	B 5.157	D 3.500	G 0.547	J 1.496	K 1.654
	O 7.000	P 7.047	AB 6.968	AA NPT 3/4"	ER 4.258
	EQ 0.630	ET 2.880	U 0.874	EM 1.000	EL 1.156
	EP 1.179	S 0.187	R 0.768	ES 1.654	d1 EUNC 3/8"-16
F	t1 0.748	t2 1.102	C 15.866	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 : Single-Phase - "JM" Type - TEFC - Standard Efficiency

Single-phase induction motor  
Frame 143JM - IP55

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