



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 : 00118ES1E143JM

List Price : \$687

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 HP
Frequency : 60 Hz
Poles : 4
Full load speed : 1760
Slip : 2.22 %
Voltage : 208-230/460 V
Rated current : 5.25-5.30/2.65 A
Locked rotor current : 43.5/21.7 A
Locked rotor current (I_L/I_n) : 8.2
No-load current : 3.40/1.70 A
Full load torque : 2.94 lb.ft
Locked rotor torque : 250 %
Breakdown torque : 320 %
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 : 0.11675 sq.ft.lb
Noise level : ---

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6206 ZZ	6203 ZZ	100%	0.82	75.0
Regreasing interval	---	---	75%	0.75	71.0
Grease amount	---	---	50%	0.65	62.0

Notes:

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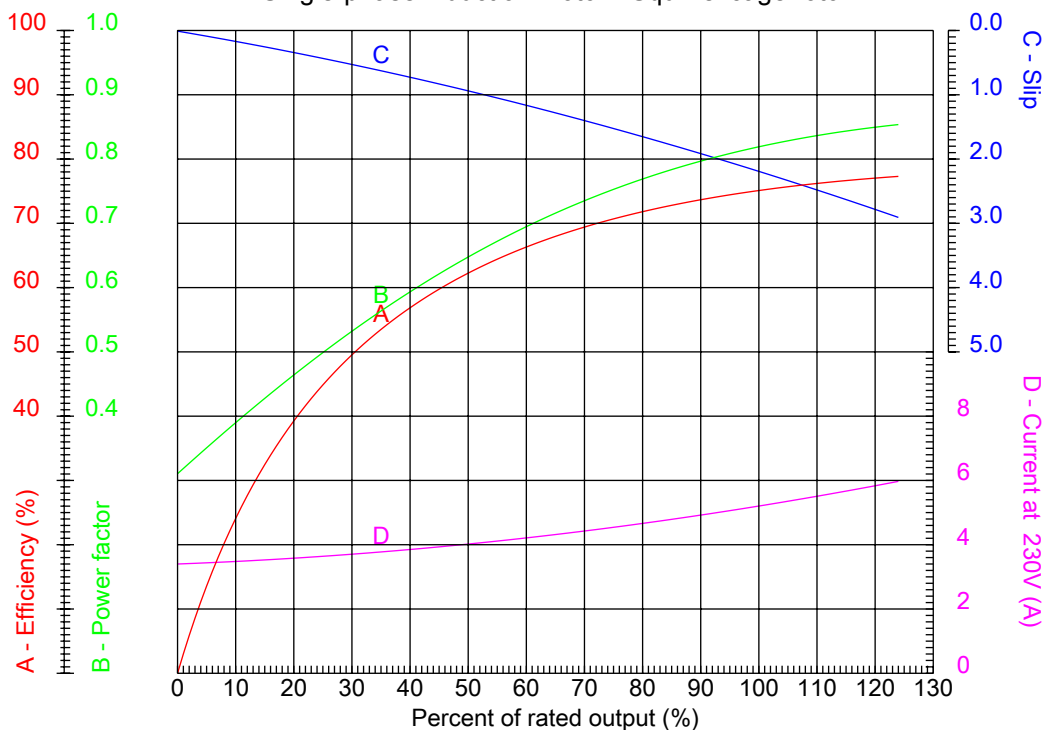
Checked



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



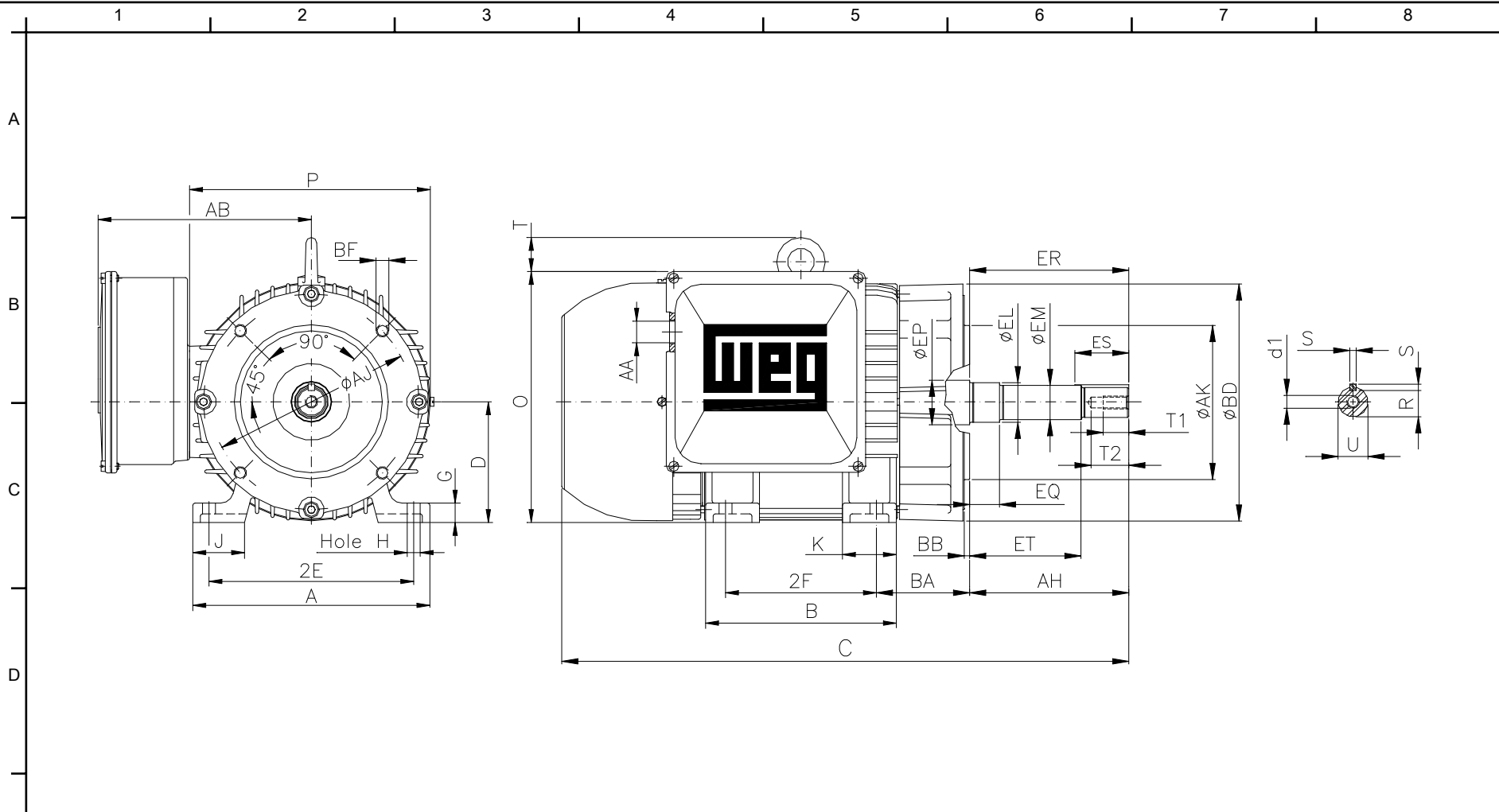
Customer :
Product line : Close Coupled Pump : Single-Phase - "JM" Type - TEFC - Standard Efficiency

Frame	: 143JM	Locked rotor current (I _l /I _n)	: 8.2
Output	: 1 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1760	Design	: ---
Voltage	: 208-230/460 V	Locked rotor torque	: 250 %
Rated current	: 5.25-5.30/2.65 A	Breakdown torque	: 320 %
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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Close Coupled Pump : Single-Phase - "JM" Type - TEFC - Standard Efficiency

Single-phase induction motor
Frame 143JM - IP55

26-DEC-2012

