



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 : 00536ES1E184JM

List Price : \$1,457

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 : 184JM
Output : 5 HP
Frequency : 60 Hz
Poles : 2
Full load speed : 3500
Slip : 2.78 %
Voltage : 208-230/460 V
Rated current : 22.5-21.0/10.5 A
Locked rotor current : 164/81.9 A
Locked rotor current (I_L/I_n) : 7.8
No-load current : 8.00/4.00 A
Full load torque : 7.40 lb.ft
Locked rotor torque : 280 %
Breakdown torque : 260 %
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 : 104 lb
Moment of inertia : 0.19055 sq.ft.lb
Noise level : ---

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6307 ZZ	6206 ZZ	100%	0.92	83.0
Regreasing interval	---	---	75%	0.89	82.5
Grease amount	---	---	50%	0.81	80.0

Notes:

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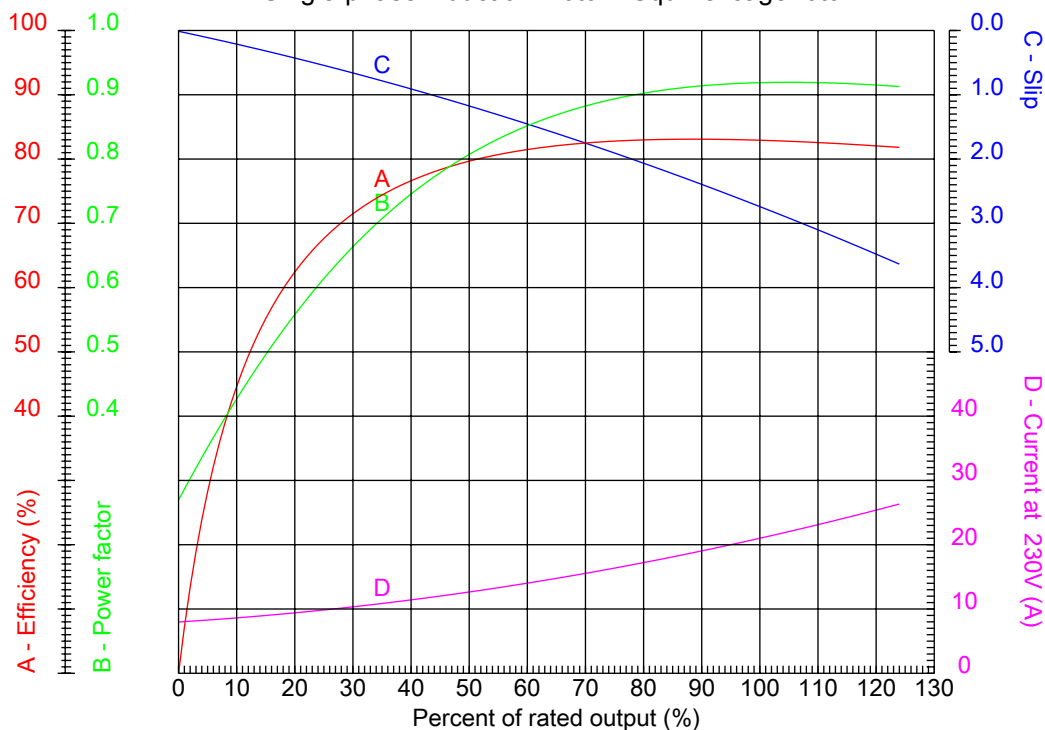
Checked



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



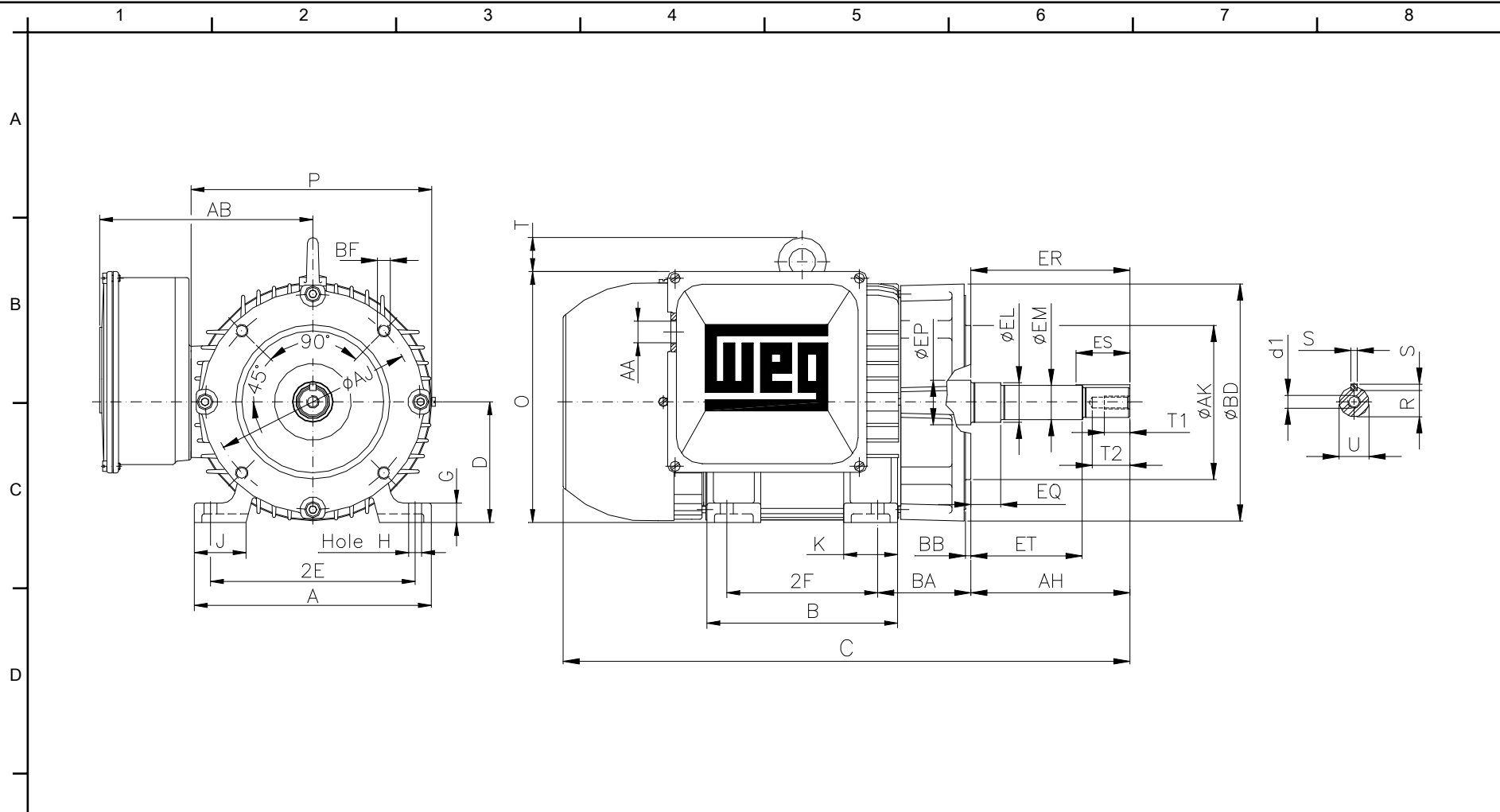
Customer :
Product line : Close Coupled Pump : Single-Phase - "JM" Type - TEFC - Standard Efficiency

Frame	: 184JM	Locked rotor current (I _l /I _n)	: 7.8
Output	: 5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3500	Design	: ---
Voltage	: 208-230/460 V	Locked rotor torque	: 280 %
Rated current	: 22.5-21.0/10.5 A	Breakdown torque	: 260 %
Insulation class	: F		

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E	2E 7.500	2F 5.500	H 0.406	BA 2.756	A 8.661
	B 6.969	D 4.500	G 0.720	J 1.890	K 1.969
	O 9.343	P 8.740	AB 7.835	AA NPT 1"	ER 4.258
	EQ 0.630	ET 2.880	U 0.874	EM 1.000	EL 1.250
	EP 1.376	S 0.187	R 0.767	ES 1.575	d1 EUNC 3/8"-16
F	t1 0.748	t2 1.102	C 17.368	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 184JM - IP55

26-DEC-2012

