



Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

TECHNICAL PROPOSAL

Single-phase induction motor - Squirrel cage rotor

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

Catalog Number : .5036ES1E143JM

List Price : \$668

Notes:

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Generated for Model #.5036ES1E143JM

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Date: 12-SEP-2016

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 : 0.5 HP
 Frequency : 60 Hz
 Poles : 2
 Full load speed : 3530 rpm
 Slip : 1.94 %
 Voltage : 208-230/460 V
 Rated current : 3.80/1.90 A
 Locked rotor current : 26.6/13.3 A
 Locked rotor current (I_L/I_n) : 7.0
 No-load current : 2.60/1.30 A
 Full load torque : 0.734 lb.ft
 Locked rotor torque : 270 %
 Breakdown torque : 240 %
 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 m
 Degree of Protection : IP55
 Approximate weight : 42 lb
 Moment of inertia : 0.02373 sq.ft.lb
 Noise level : 60 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6206 ZZ	6203 ZZ	100%	0.71	60.0
Regreasing interval	---	---	75%	0.65	56.0
Grease amount	---	---	50%	0.56	50.0

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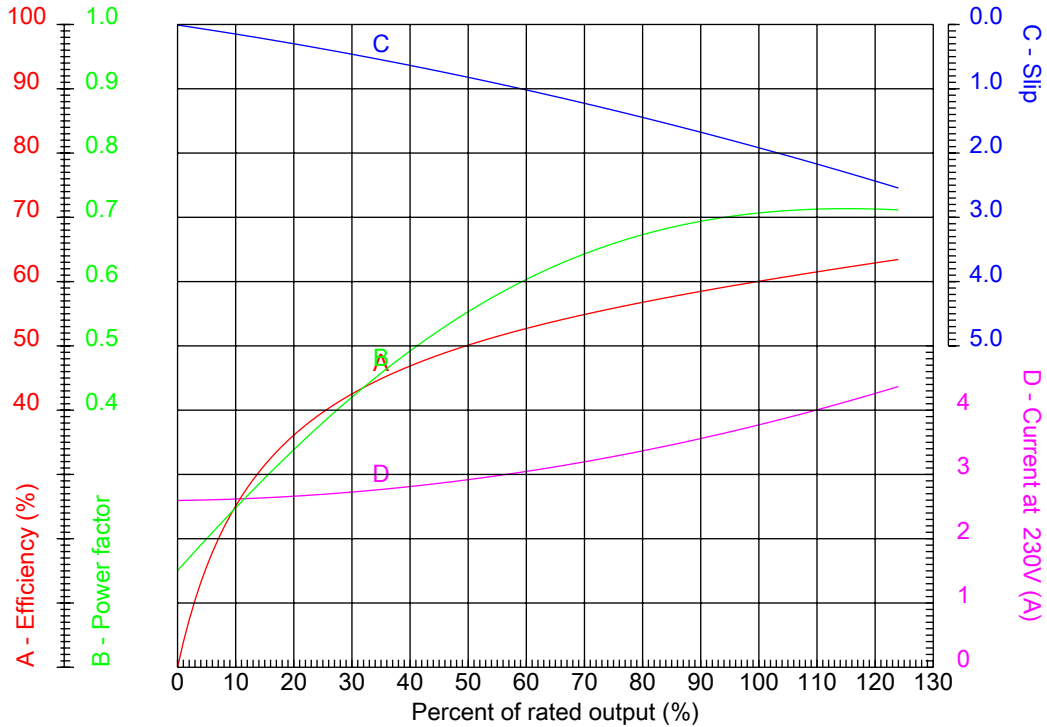
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Single-phase induction motor - Squirrel cage rotor

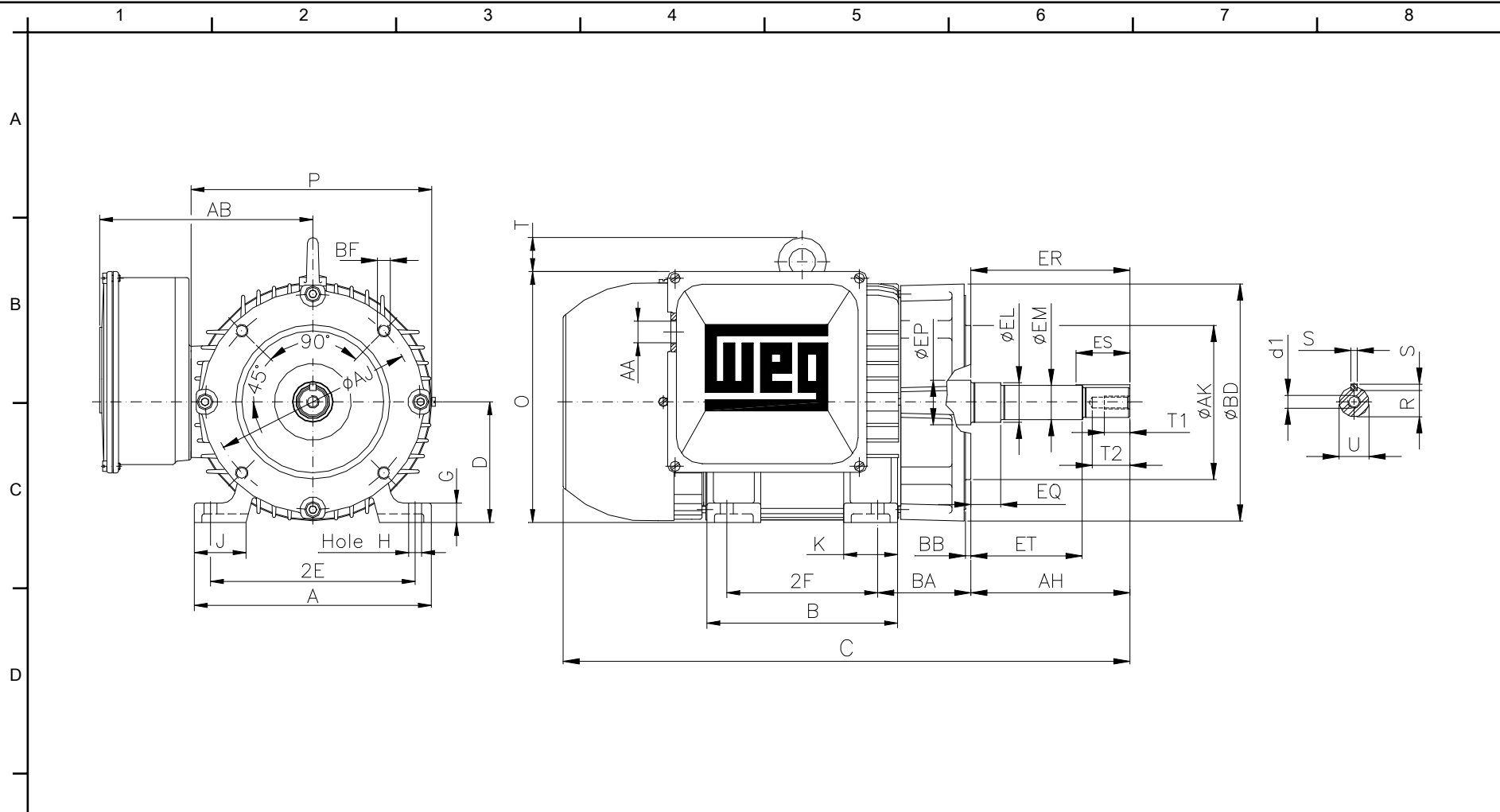


Customer :
 Product line : Close Coupled Pump : Single-Phase - "JM" Type - TEFC - Standard Efficiency

Frame	: 143JM	Locked rotor current (I _l /I _n)	: 7.0
Output	: 0.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3530 rpm	Design	: ---
Voltage	: 208-230/460 V	Locked rotor torque	: 270 %
Rated current	: 3.80/1.90 A	Breakdown torque	: 240 %
Insulation class	: F		

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2E	2F	H	BA	A
5.500	4.000	0.344	2.560	6.457
B	D	G	J	K
5.157	3.500	0.547	1.496	1.654
O	P	AB	AA	ER
7.000	7.047	6.968	NPT 3/4"	4.258
EQ	ET	U	EM	EL
0.630	2.880	0.874	1.000	1.156
EP	S	R	ES	d1
1.179	0.187	0.768	1.654	EUNC 3/8"-16
t1	t2	C	Flange	AJ
0.748	1.102	15.866	FC-149	5.874
AK	BD	BF	BB	AH
4.500	6.496	UNC 3/8"x16	0.157	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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