



No.:

Date: 28-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 : 00336OT3E145JM

List Price : \$660

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 : F143/5JM
Output : 3 HP
Frequency : 60 Hz
Poles : 2
Full load speed : 3430
Slip : 4.72 %
Voltage : 208-230/460 V
Rated current : 7.80-7.00/3.50 A
Locked rotor current : 59.5/29.8 A
Locked rotor current (I_L/I_n) : 8.5
No-load current : 2.60/1.30 A
Full load torque : 4.53 lb.ft
Locked rotor torque : 400 %
Breakdown torque : 350 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 15 s (hot)
Service factor : 1.15 (1.00 at 208V)
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP21
Approximate weight : 46 lb
Moment of inertia : 0.07119 sq.ft.lb
Noise level : ---

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6206 ZZ	6204 ZZ	100%	0.89	86.5
Regreasing interval	---	---	75%	0.85	87.5
Grease amount	---	---	50%	0.75	86.5

Notes:

Performed by

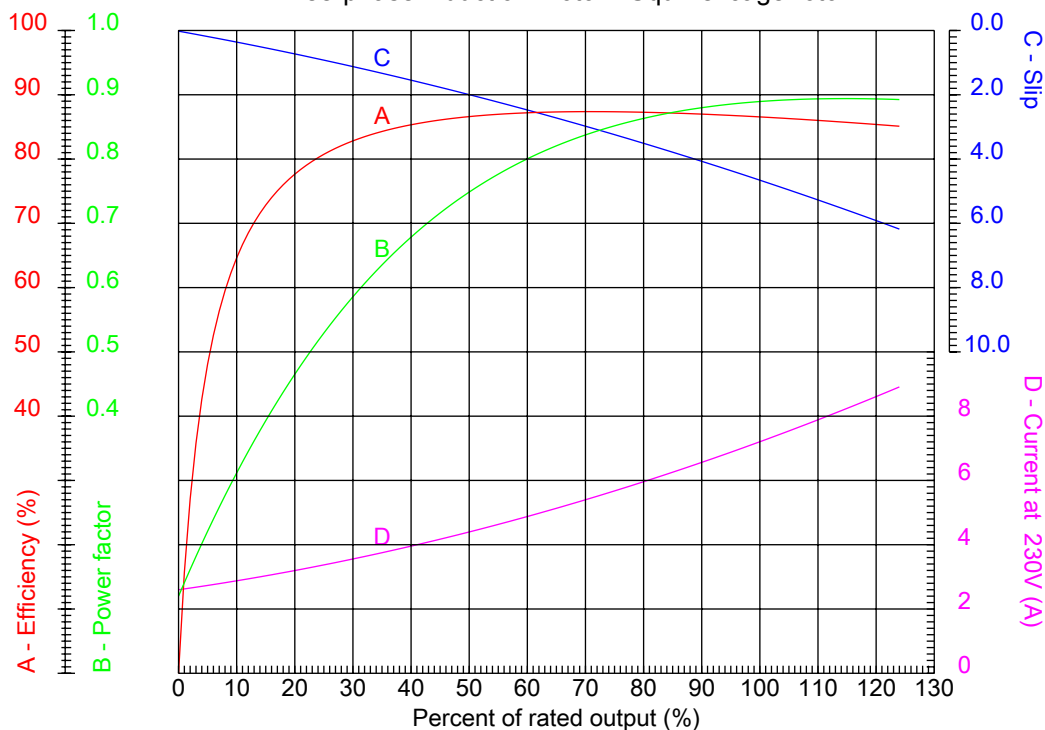
Checked



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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	: F143/5JM	Locked rotor current (I _l /I _n)	: 8.5
Output	: 3 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15 (1.00 at 208V)
Full load speed	: 3430	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 400 %
Rated current	: 7.80-7.00/3.50 A	Breakdown torque	: 350 %
Insulation class	: F		

Notes:

Performed by

Checked

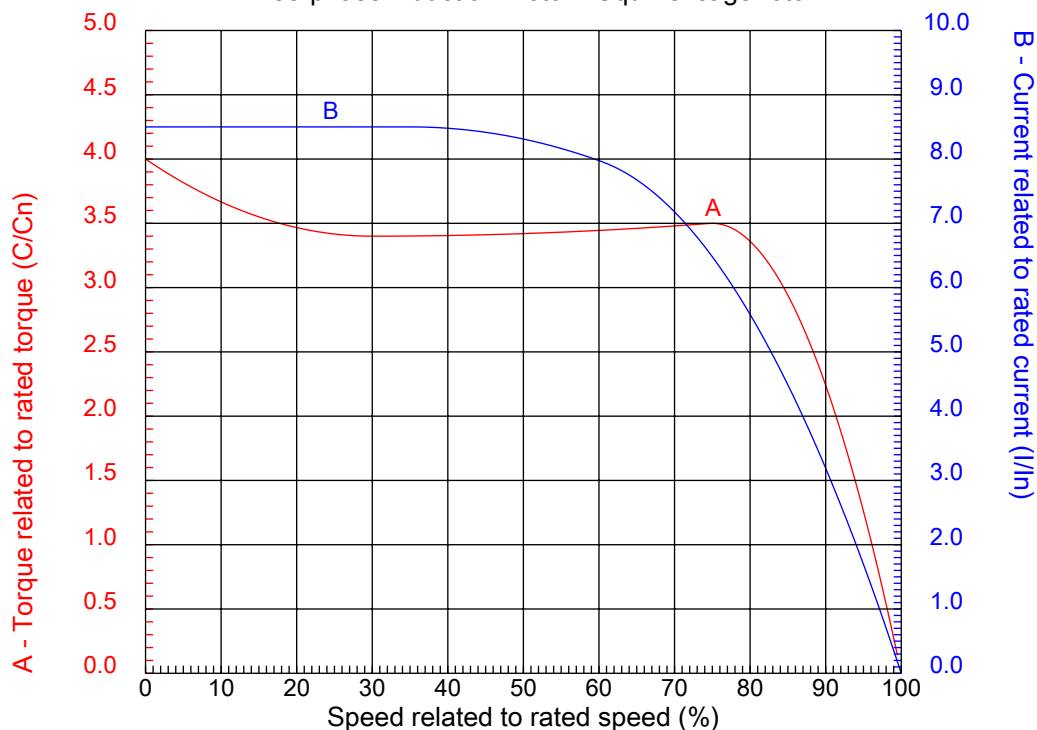


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



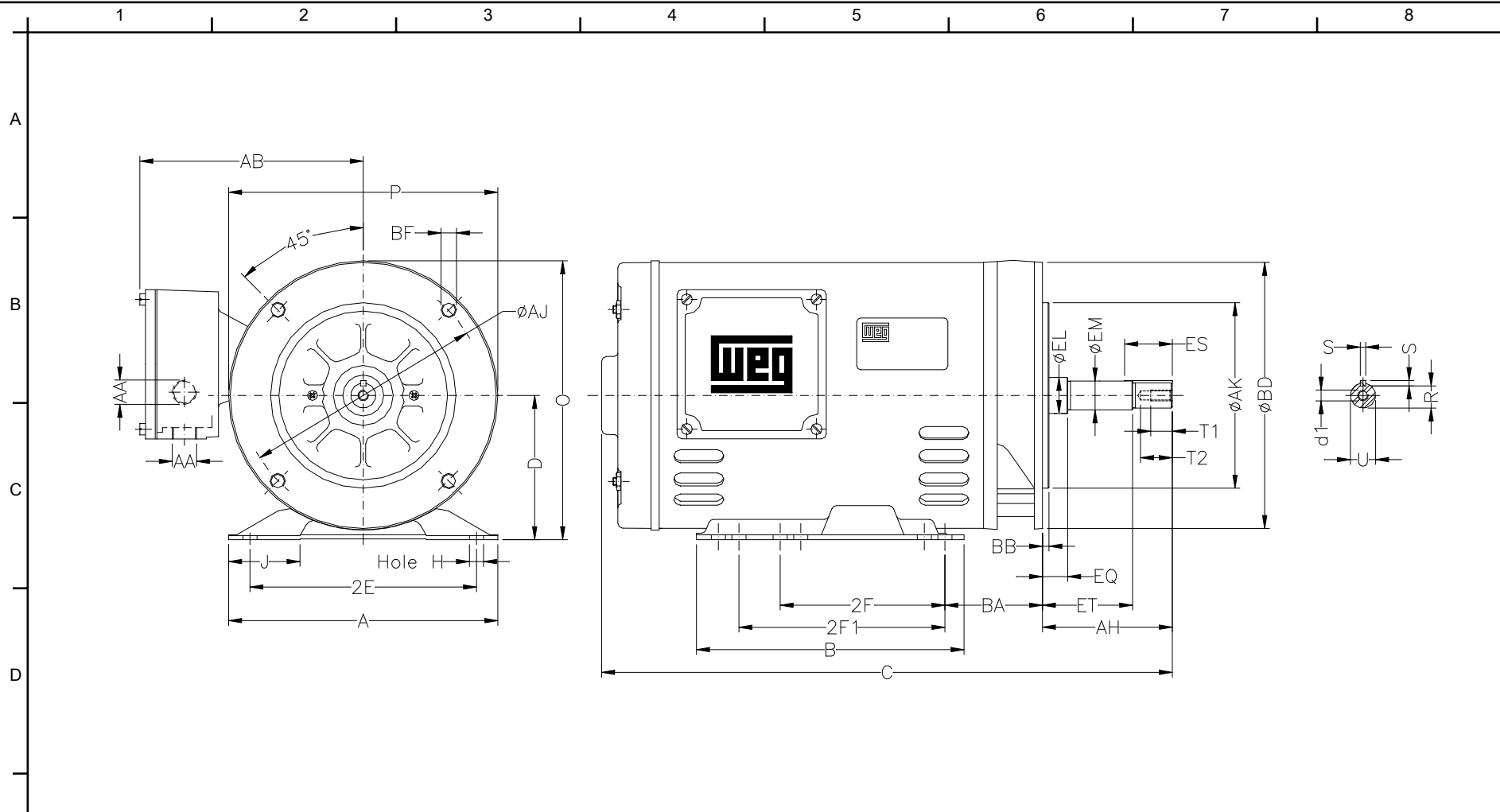
Customer :
Product line : Close Coupled Pump : Three-Phase - "JM" Type - ODP - NEMA Premium

Frame	: F143/5JM	Locked rotor current (I _l /I _n)	: 8.5
Output	: 3 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15 (1.00 at 208V)
Full load speed	: 3430	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 400 %
Rated current	: 7.80-7.00/3.50 A	Breakdown torque	: 350 %
Insulation class	: F		

Notes:

Performed by

Checked



Notes:

2E 5.500	A 6.535	2F 4.000	B 6.496	BA 2.248
D 3.500	G 0.120	O 6.772	P 6.535	AB 5.433
AA NPT 1/2"	EQ 0.630	ET 2.880	U 0.874	EM 1.000
EL 1.156	S 0.187	R 0.768	ES 1.654	d1 DUNC 3/8"-16
t1 0.748	t2 1.102	C 14.842	Flange FC-149	AJ 5.874
AK 4.500	BD 6.535	BF UNC 3/8"x16	BB 0.157	BC ---
AH 108.15				

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Customer:

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

Three-phase induction motor
Frame F143/5JM - IP21

28-DEC-2012

