



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 : 00118OT3H143JM

List Price : \$486

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 : E143/5JM  
Output : 1 HP  
Frequency : 60 Hz  
Poles : 4  
Full load speed : 1730  
Slip : 3.89 %  
Voltage : 575 V  
Rated current : 1.16 A  
Locked rotor current : 9.28 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 8.0  
No-load current : 0.800 A  
Full load torque : 2.99 lb.ft  
Locked rotor torque : 320 %  
Breakdown torque : 330 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 15 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP21  
Approximate weight : 37 lb  
Moment of inertia : 0.12411 sq.ft.lb  
Noise level : ---

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6206 ZZ	6204 ZZ	100%	0.76	85.5
Regreasing interval	---	---	75%	0.68	85.5
Grease amount	---	---	50%	0.54	82.5

Notes:

Performed by

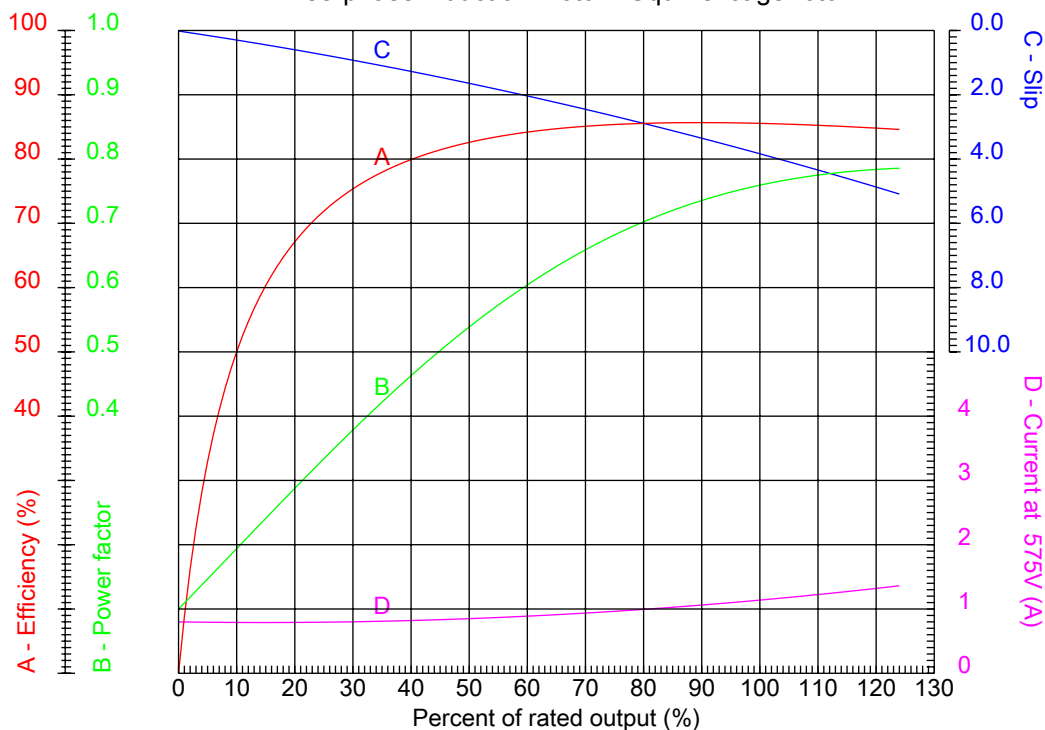
Checked



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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	: E143/5JM	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 8.0
Output	: 1 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1730	Design	: B
Voltage	: 575 V	Locked rotor torque	: 320 %
Rated current	: 1.16 A	Breakdown torque	: 330 %
Insulation class	: F		

Notes:

Performed by

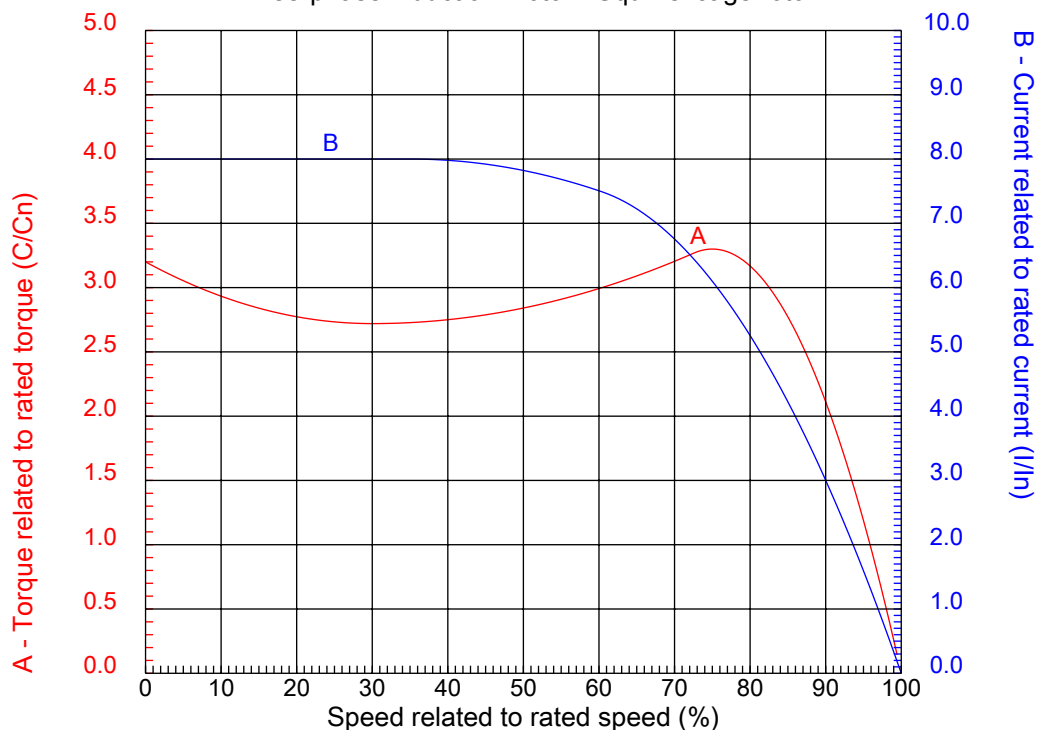
Checked



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CHARACTERISTIC CURVES RELATED TO SPEED  
Three-phase induction motor - Squirrel cage rotor



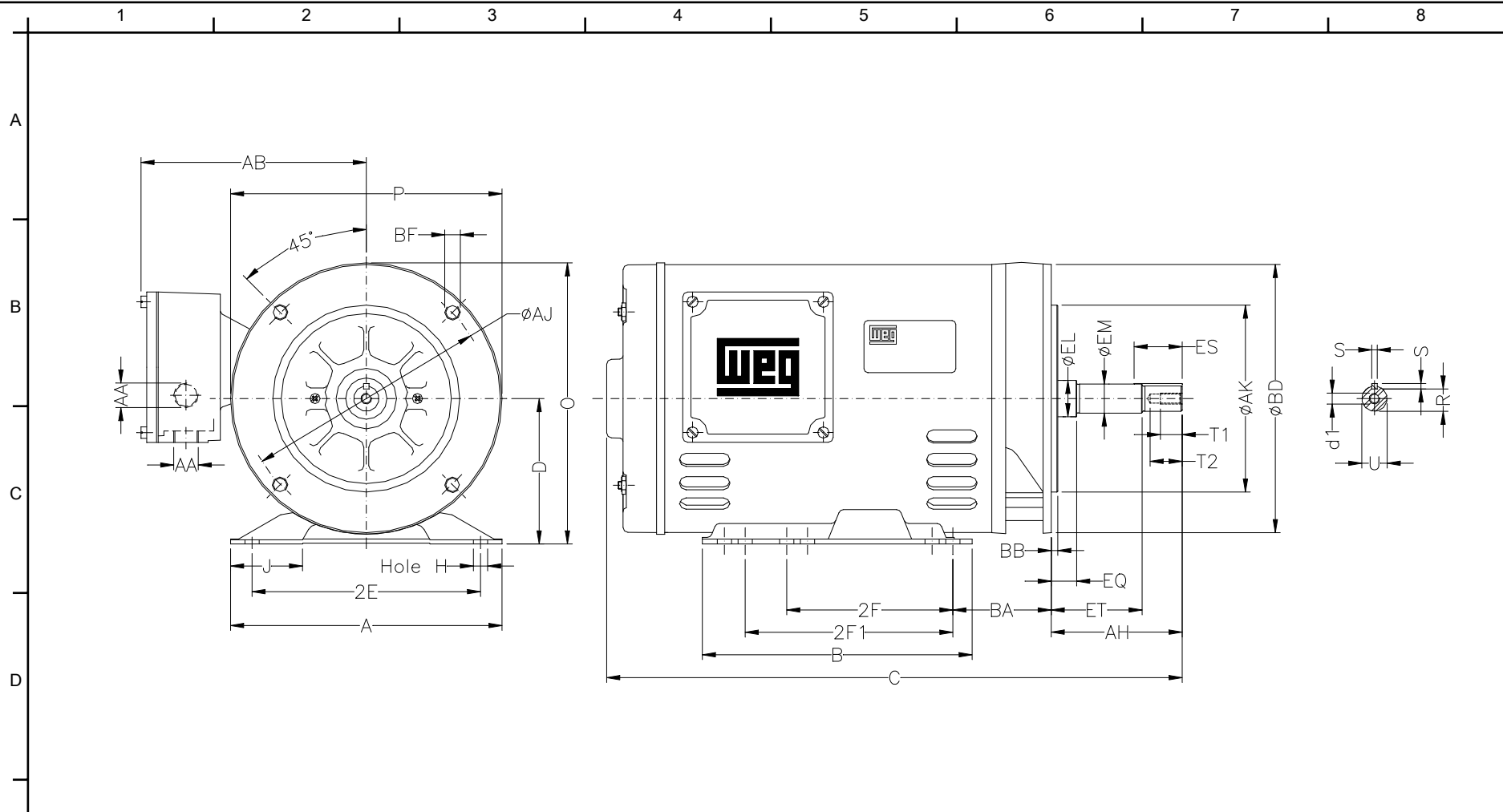
Customer :  
Product line : Close Coupled Pump : Three-Phase - "JM" Type - ODP - NEMA Premium

Frame	: E143/5JM	Locked rotor current (I/I <sub>n</sub> )	: 8.0
Output	: 1 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1730	Design	: B
Voltage	: 575 V	Locked rotor torque	: 320 %
Rated current	: 1.16 A	Breakdown torque	: 330 %
Insulation class	: F		

Notes:

Performed by

Checked



Notes:

2E 5.500	A 6.535	2F 0.157	B 0.256	J 1.732
BA 2.250	D 3.500	G 3.05	O 6.772	P 6.535
AB 5.433	H 0.342	AA 2XNPT 1/2"	EQ 0.630	ET 2.880
U 0.8744	EM 1.000	EL 1.156	S 0.187	R 0.768
ES 1.653	d1 DUNC 3/8"-16	t1 0.748	t2 1.102	C 14.055
Flange FC-149	AJ 5.874	AK 4.500	BD 6.535	BF UNC 3/8"x16
BB 0.157	BC ---	AH 4.258		

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Checked:

Customer:

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

Three-phase induction motor  
Frame E143/5JM - IP21

28-DEC-2012

