



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 : 00236OT3E145JM

List Price : \$580

Notes:

Performed by:

Checked:



No.:

Date: 28-DEC-2012

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 : 2 HP
Frequency : 60 Hz
Poles : 2
Full load speed : 3430
Slip : 4.72 %
Voltage : 208-230/460 V
Rated current : 5.50-5.00/2.50 A
Locked rotor current : 47.5/23.8 A
Locked rotor current (I_L/I_n) : 9.5
No-load current : 2.20/1.10 A
Full load torque : 3.02 lb.ft
Locked rotor torque : 450 %
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 : 42 lb
Moment of inertia : 0.05933 sq.ft.lb
Noise level : ---

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6206 ZZ	6204 ZZ	100%	0.87	86.5
Regreasing interval	---	---	75%	0.81	85.5
Grease amount	---	---	50%	0.70	84.0

Notes:

Performed by

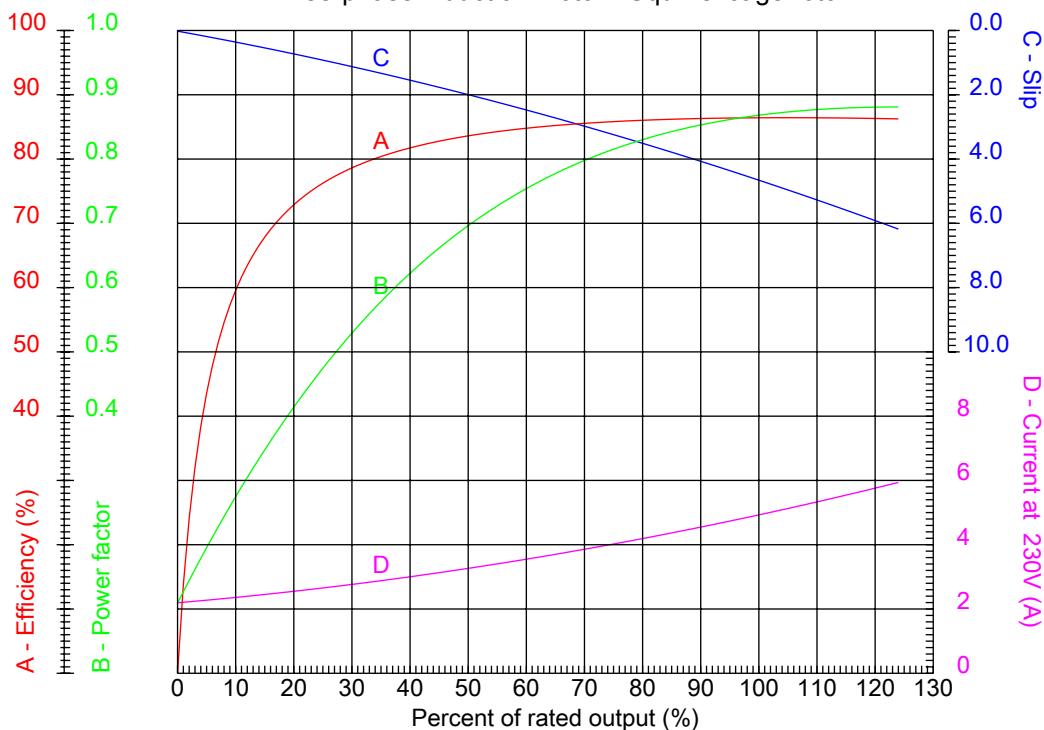
Checked



No.:

Date: 28-DEC-2012

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 _l /I _n)	: 9.5
Output	: 2 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	: 450 %
Rated current	: 5.50-5.00/2.50 A	Breakdown torque	: 350 %
Insulation class	: F		

Notes:

Performed by

Checked

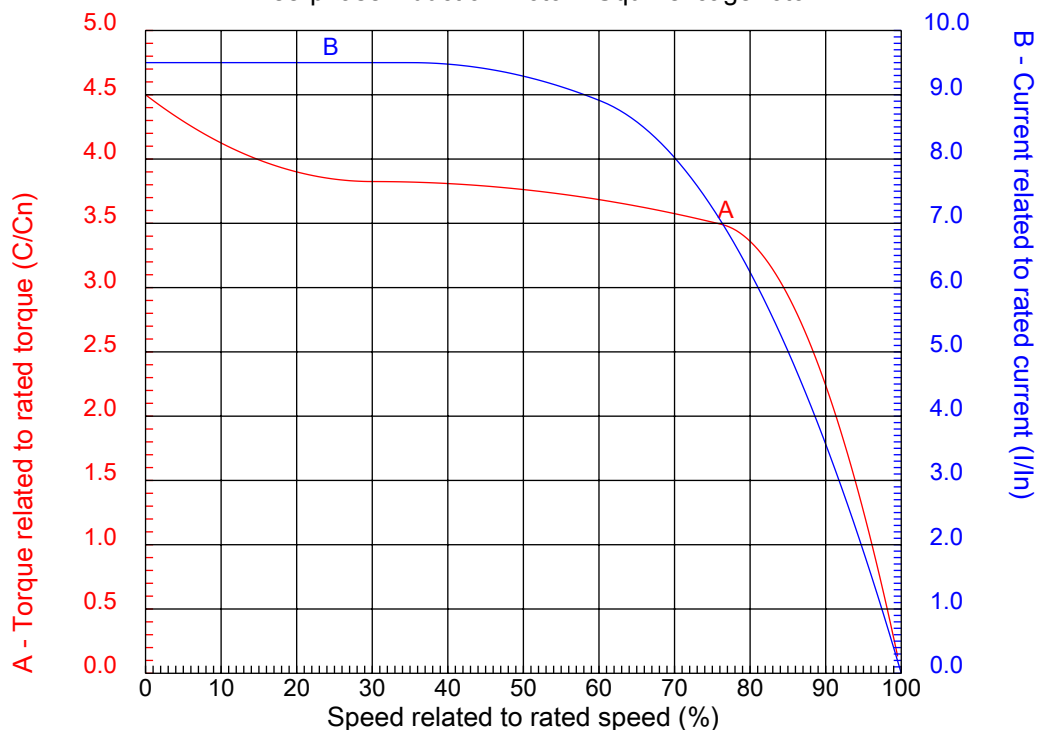


No.:

Date: 28-DEC-2012

CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



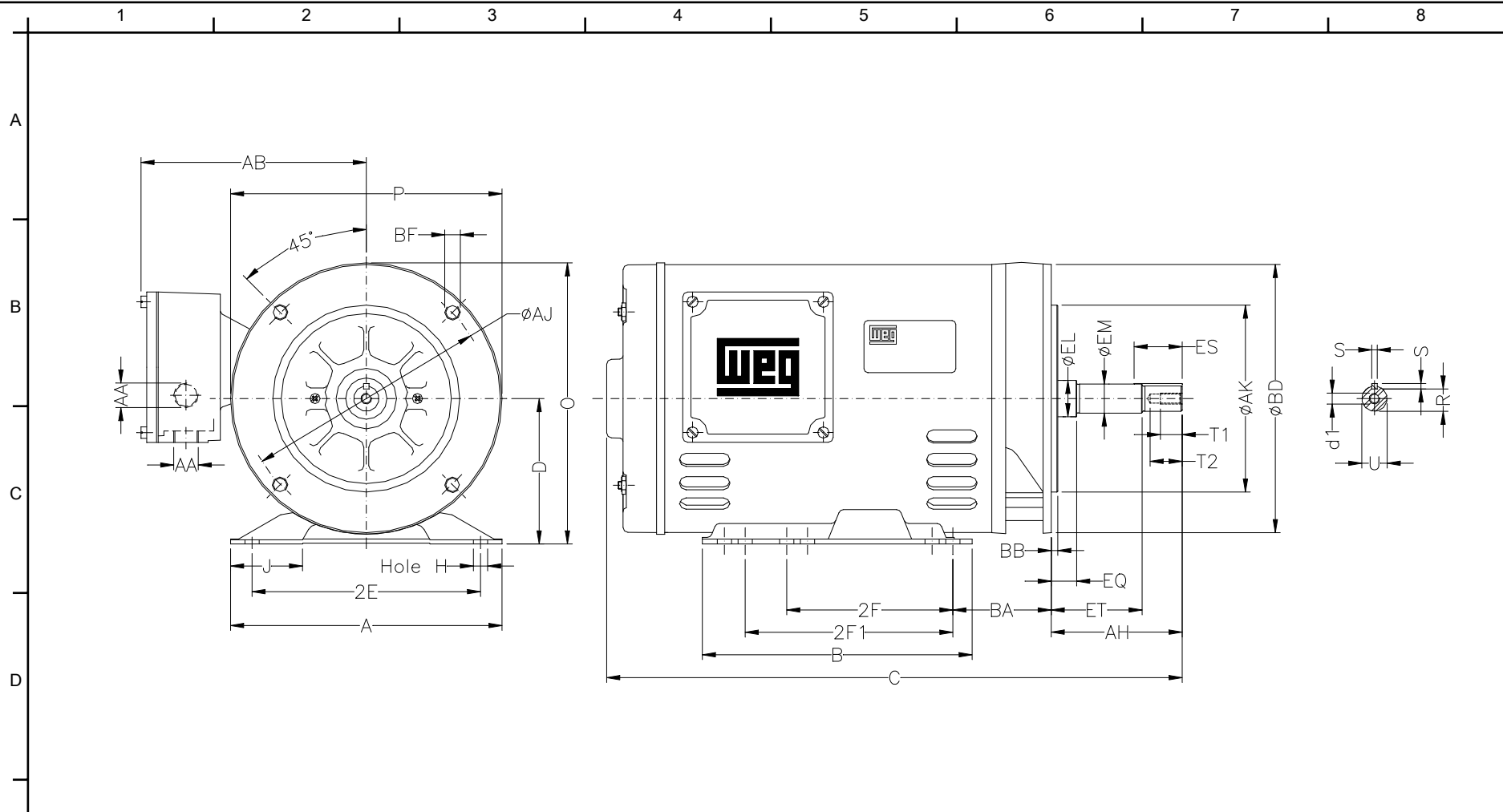
Customer :
Product line : Close Coupled Pump : Three-Phase - "JM" Type - ODP - NEMA Premium

Frame	: E143/5JM	Locked rotor current (I _l /I _n)	: 9.5
Output	: 2 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	: 450 %
Rated current	: 5.50-5.00/2.50 A	Breakdown torque	: 350 %
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		

Performed by:

Checked:

Customer:

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

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

28-DEC-2012

