



No.:

Date: 27-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Close Coupled Pump : Three-Phase - "JP" Type - ODP - High Efficiency

Catalog Number : 05036OP3V324JP

List Price : \$3,971

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 - "JP" Type - ODP - High Efficiency

Frame : 324JP  
 Output : 50 HP  
 Frequency : 60 Hz  
 Poles : 2  
 Full load speed : 3560  
 Slip : 1.11 %  
 Voltage : 200/400 V  
 Rated current : 134/67.2 A  
 Locked rotor current : 833/416 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.2  
 No-load current : 44.8/22.4 A  
 Full load torque : 72.8 lb.ft  
 Locked rotor torque : 220 %  
 Breakdown torque : 240 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 28 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000  
 Degree of Protection : IP23  
 Approximate weight : 478 lb  
 Moment of inertia : 3.2985 sq.ft.lb  
 Noise level : 74 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6312 Z-C3	6212 Z-C3	100%	0.86	92.4
Regreasing interval	19658 h	20000 h	75%	0.83	92.4
Grease amount	21 g	13 g	50%	0.75	91.0

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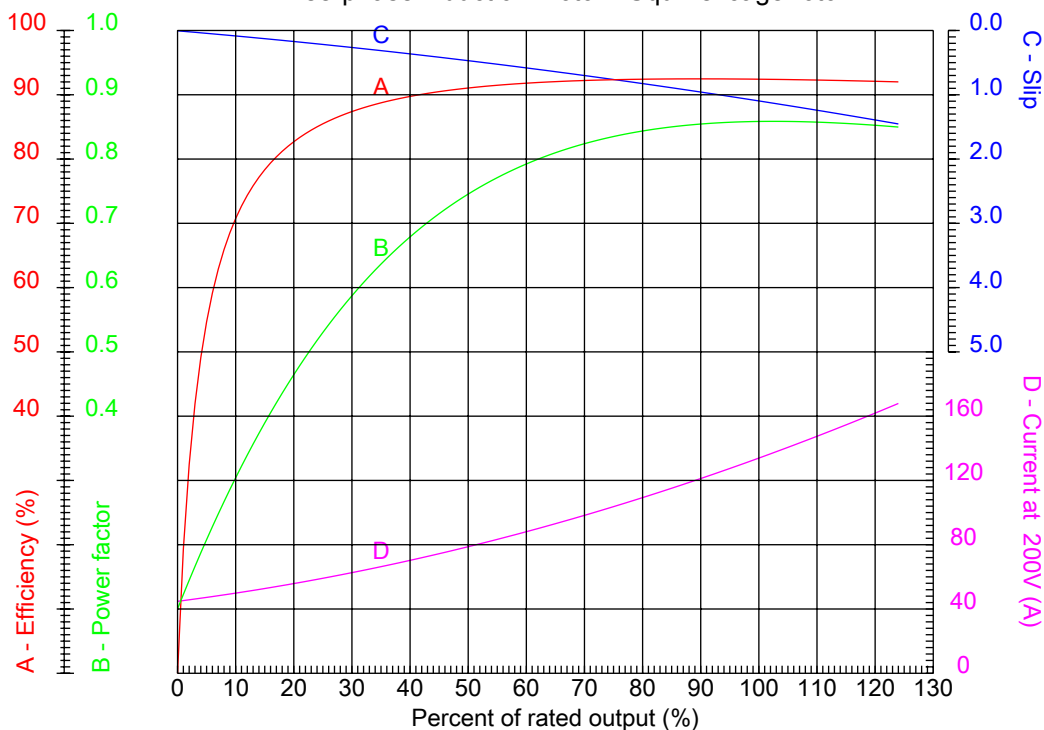


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### PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Close Coupled Pump : Three-Phase - "JP" Type - ODP - High Efficiency

Frame	: 324JP	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.2
Output	: 50 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3560	Design	: B
Voltage	: 200/400 V	Locked rotor torque	: 220 %
Rated current	: 134/67.2 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:

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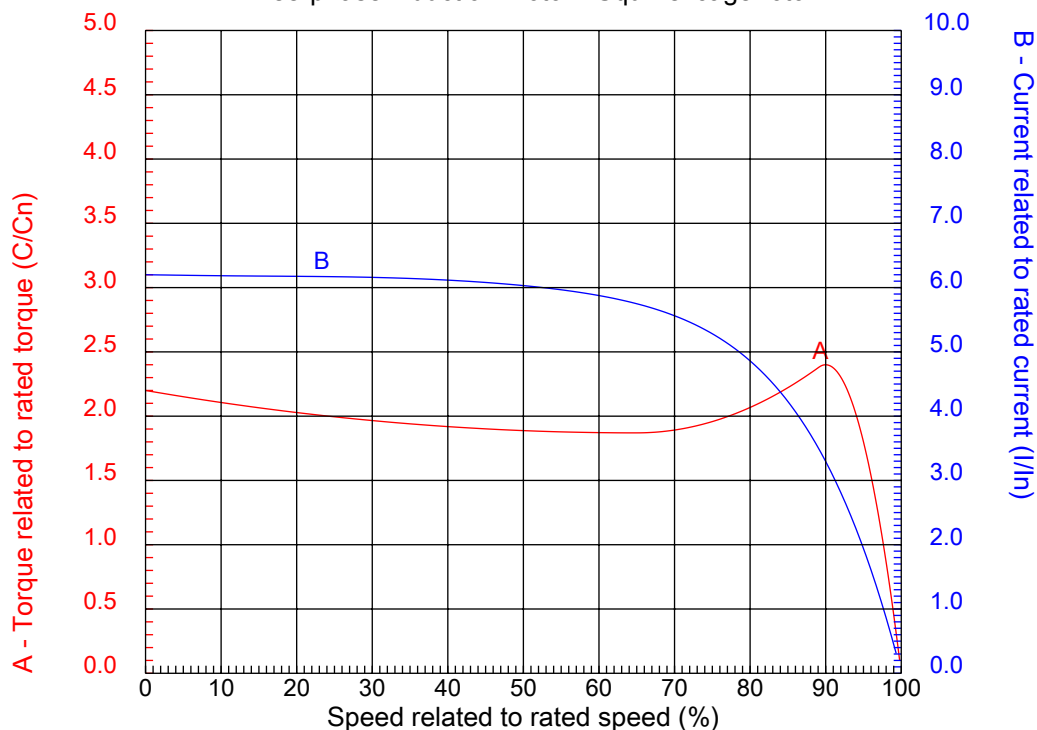


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Close Coupled Pump : Three-Phase - "JP" Type - ODP - High Efficiency

Frame	: 324JP	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.2
Output	: 50 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3560	Design	: B
Voltage	: 200/400 V	Locked rotor torque	: 220 %
Rated current	: 134/67.2 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:

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1 2 3 4 5 6 7 8

A

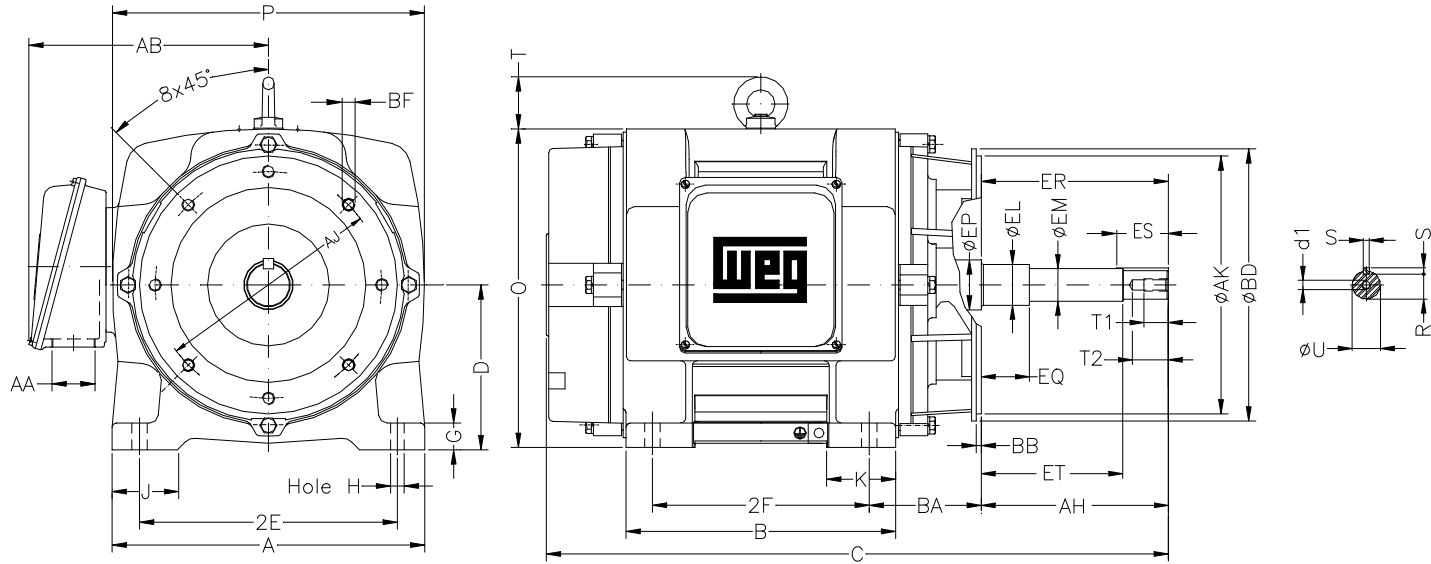
B

C

D

E

F



Notes:

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Customer:

Close Coupled Pump : Three-Phase - "JP" Type - ODP - High Efficiency

Three-phase induction motor  
Frame 324JP - IP23

27-DEC-2012



2E	A	2F	B	J
12.500	15.160	10.500	13.070	3.230
BA	D	K	G	O
5.500	8.000	3.350	1.299	15.551
P	T	HD	H	AA
15.118	2.559	18.110	0.657	NPT 2"
ER	EQ	ET	U	EM
8.130	2.382	5.886	1.249	1.375
EL	S	EP	R	ES
1.750	0.250	2.360	1.110	2.480
d1	t1	t2	C	Flange
EUNC 1/2"-13	0.984	1.496	29.311	FC-279
AJ	AK	BD	BF	BB
11.000	12.500	13.189	UNC 5/8"x11	0.250
BC	AH			
	8.130			