



Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 05036OP3E324JPV

List Price : \$4,372

Notes:

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Generated for Model #05036OP3E324JPV

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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 rpm  
 Slip : 1.11 %  
 Voltage : 230/460 V  
 Rated current : 117/58.4 A  
 Locked rotor current : 724/362 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.2  
 No-load current : 39.0/19.5 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 m  
 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.
Bearings	6312 Z-C3	6212 Z-C3
Regreasing interval	9829 h	10000 h
Grease amount	21 g	13 g

Load	Power factor	Efficiency (%)
100%	0.86	92.4
75%	0.83	92.4
50%	0.75	91.0

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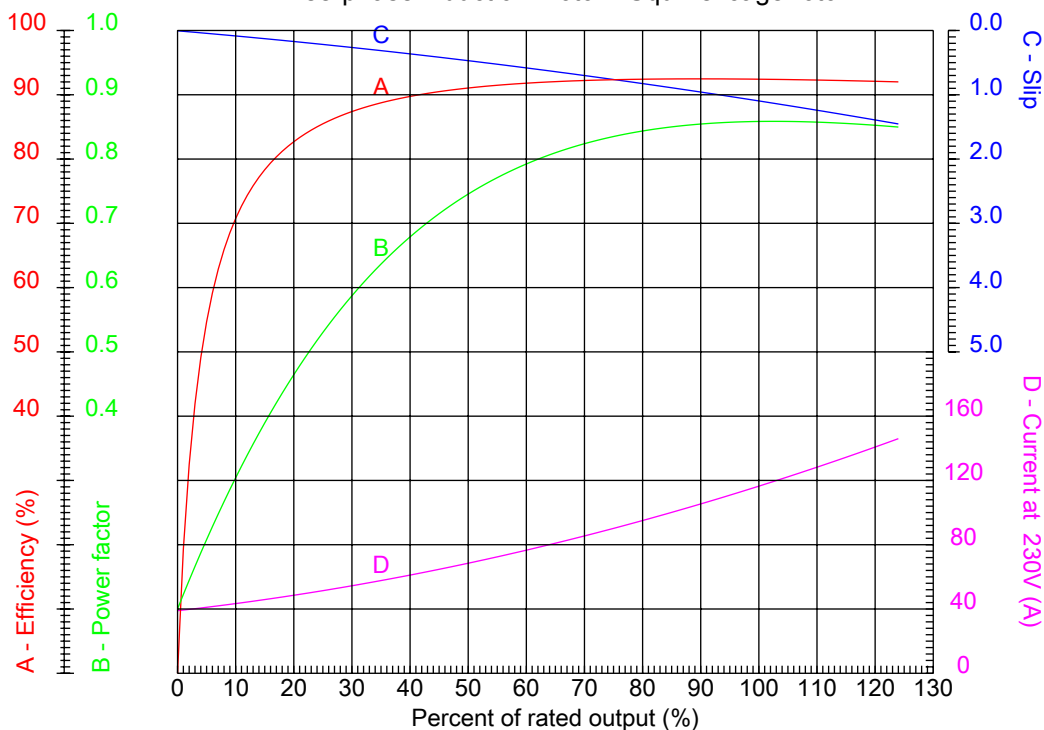
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

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 rpm	Design	: B
Voltage	: 230/460 V	Locked rotor torque	: 220 %
Rated current	: 117/58.4 A	Breakdown torque	: 240 %
Insulation class	: F		

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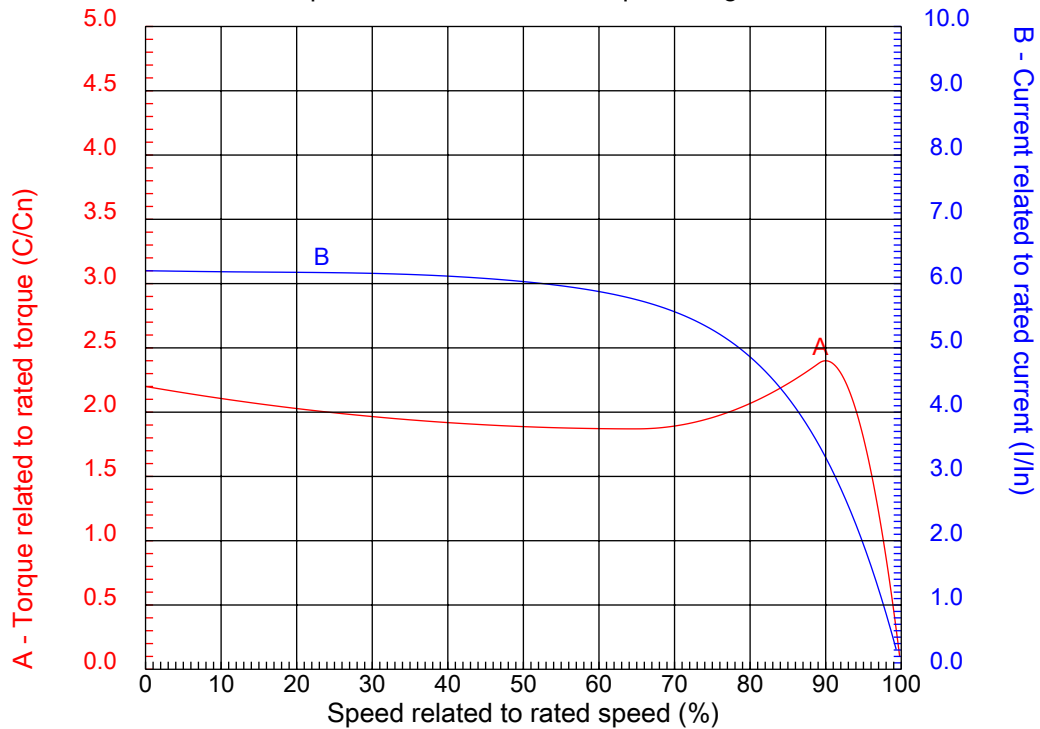
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



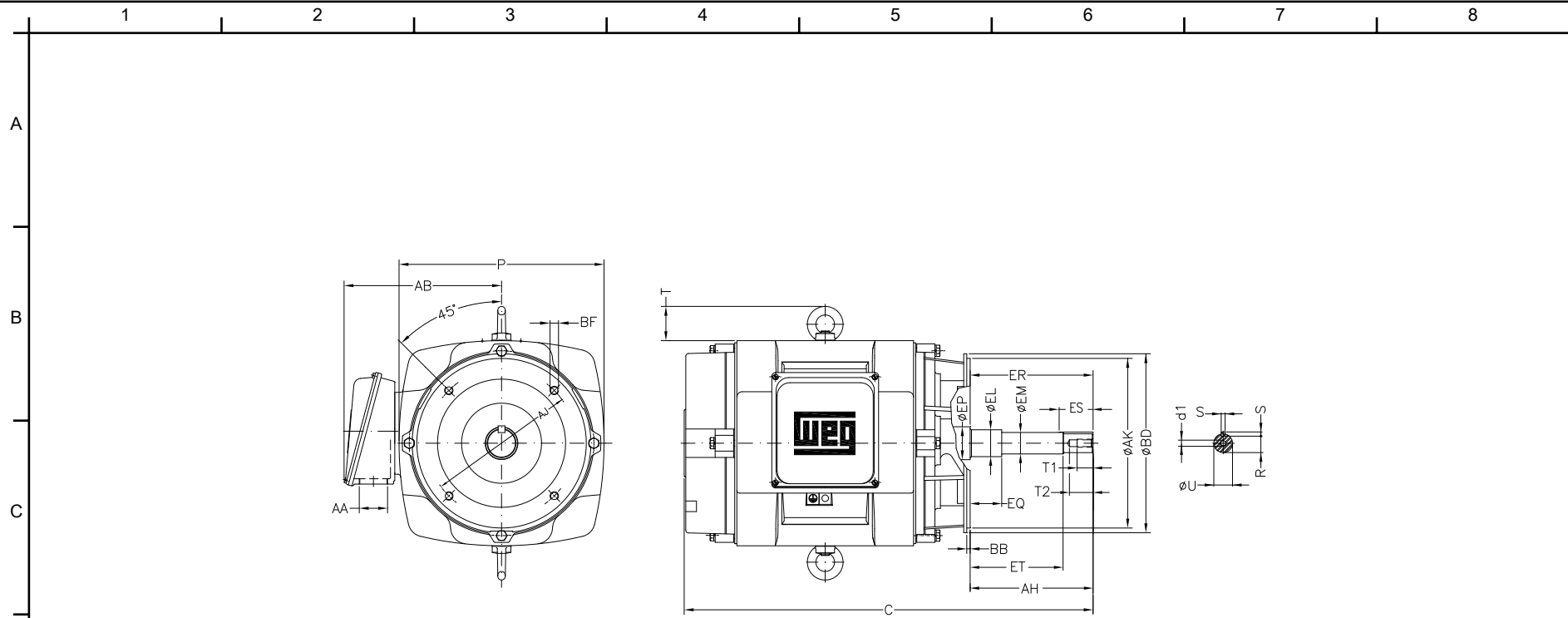
Customer :  
Product line : Close Coupled Pump : Three-Phase - "JP" Type - ODP - High Efficiency

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 rpm	Design	: B
Voltage	: 230/460 V	Locked rotor torque	: 220 %
Rated current	: 117/58.4 A	Breakdown torque	: 240 %
Insulation class	: F		

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Customer:

P	AB	AA	ER	EQ
15.118	11.496	NPT 2"	8.130	2.382
ET	U	EM	EL	S
5.886	1.249	1.375	1.750	0.250
EP	R	ES	d1	t1
2.360	1.110	2.480	EUNC 1/2"-13	0.984
t2	C	Flange	AJ	AK
1.496	29.311	FC-279	11.000	12.500
BD	BF	BB	AH	
13.189	UNC 5/8"x11	0.250	8.130	

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

Three-phase induction motor  
 Frame 324JP - IP23

23-SEP-2016



1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F

LOW VOLTAGE

HIGH VOLTAGE



CONNECTIONS FOR STARTING ONLY:

LOW VOLTAGE

HIGH VOLTAGE



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Customer:

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

Three-phase induction motor  
Frame 324JP - IP23

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