



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 - "JM" Type - ODP - NEMA Premium

Catalog Number : 01518OT3E254JM

List Price : \$1,995

Notes:

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Generated for Model #01518OT3E254JM

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No.:

Date: 23-SEP-2016

## DATA SHEET Three-phase induction motor - Squirrel cage rotor

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

Frame : 254JM  
 Output : 15 HP  
 Frequency : 60 Hz  
 Poles : 4  
 Full load speed : 1775 rpm  
 Slip : 1.39 %  
 Voltage : 208-230/460 V  
 Rated current : 41.1-37.2/18.6 A  
 Locked rotor current : 249/125 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.7  
 No-load current : 18.0/9.00 A  
 Full load torque : 43.8 lb.ft  
 Locked rotor torque : 290 %  
 Breakdown torque : 300 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 14 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP23  
 Approximate weight : 254 lb  
 Moment of inertia : 2.0840 sq.ft.lb  
 Noise level : 59 dB(A)

	D.E.	N.D.E.
Bearings	6309 Z-C3	6209 Z-C3
Regreasing interval	20000 h	20000 h
Grease amount	13 g	9 g

Load	Power factor	Efficiency (%)
100%	0.80	93.0
75%	0.72	92.4
50%	0.60	91.7

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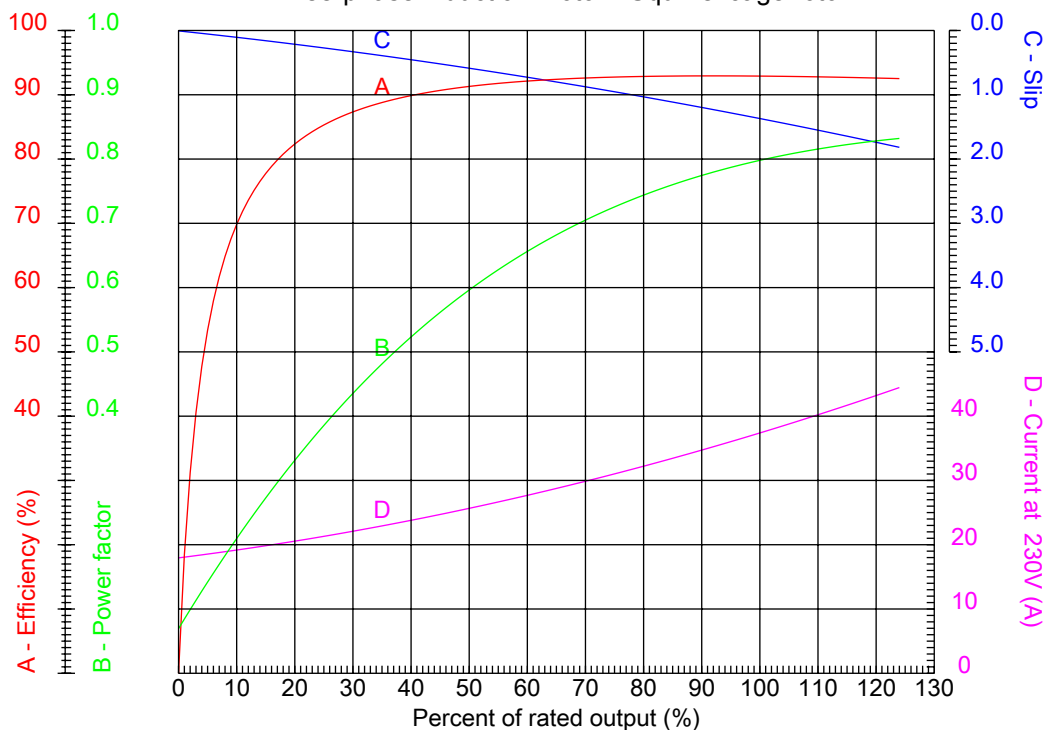
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 254JM	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.7
Output	: 15 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1775 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 290 %
Rated current	: 41.1-37.2/18.6 A	Breakdown torque	: 300 %
Insulation class	: F		

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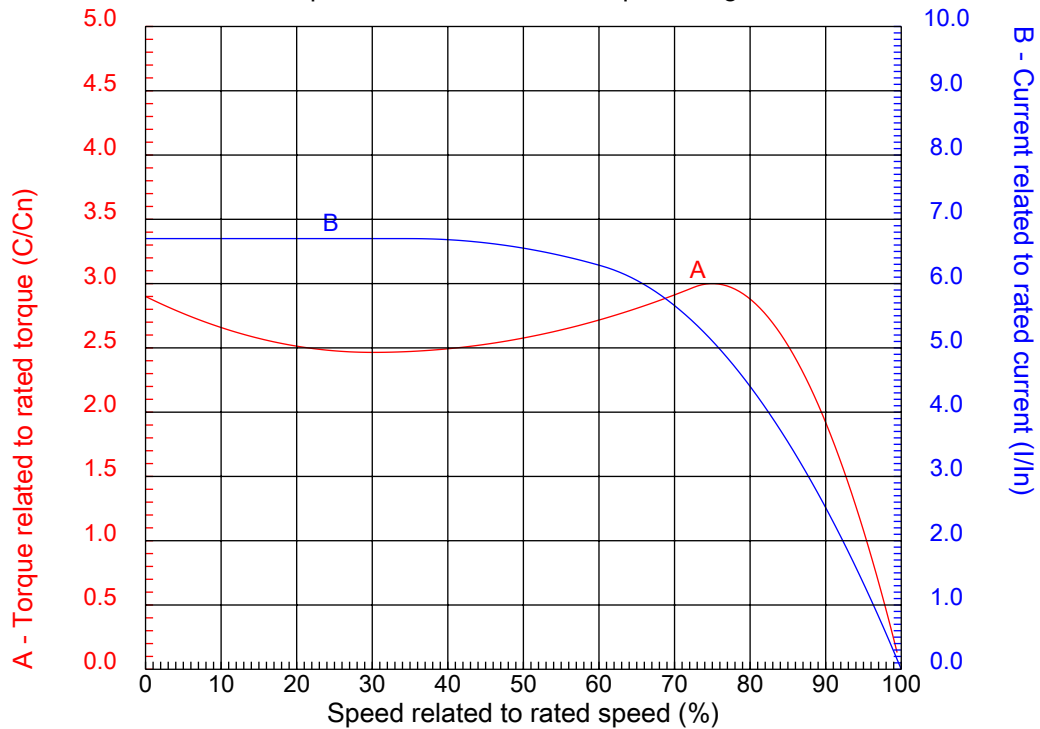
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



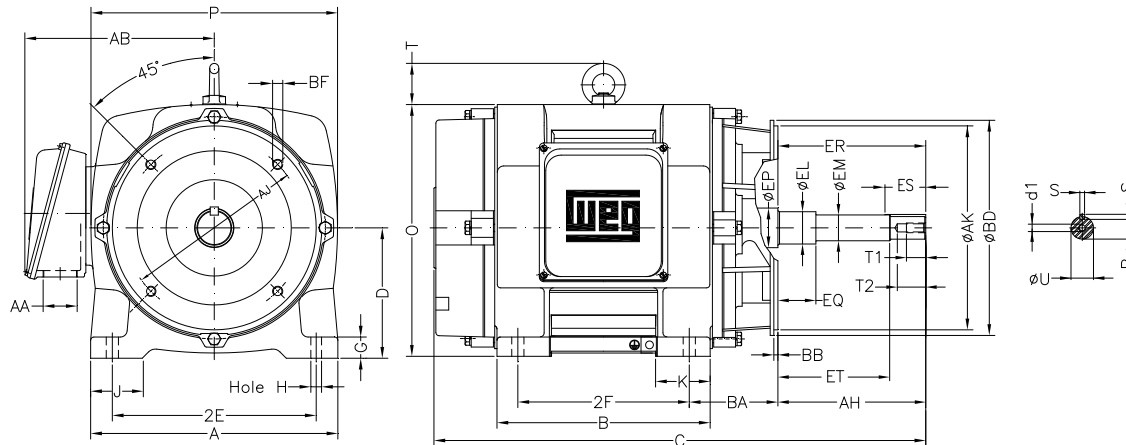
Customer :  
Product line : Close Coupled Pump : Three-Phase - "JM" Type - ODP - NEMA Premium

Frame	: 254JM	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.7
Output	: 15 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1775 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 290 %
Rated current	: 41.1-37.2/18.6 A	Breakdown torque	: 300 %
Insulation class	: F		

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E	2E 10.000	A 12.130	2F 8.250	B 10.100	J 2.520
	BA 4.500	D 6.220	K 2.560	G 0.787	O 12.204
	P 11.812	T 2.165	AB 10.079	H 0.531	AA NPT 1 1/2"
	ER 5.250	EQ 0.630	ET 3.006	U 1.249	EM 1.375
	EL 1.750	S 0.250	EP 1.750	R 1.110	d1 EUNC 1/2"-13
F	ES 2.480	t1 0.984	t2 1.496	C 22.169	CH 1.929
	Flange FC-184	AJ 7.250	AK 8.500	BD 8.858	BF UNC 1/2"x13
	BB 0.250	AH 5.250			

Performed by:	
Checked:	
Customer:	
Close Coupled Pump : Three-Phase - "JM" Type - ODP - NEMA Premium	
Three-phase induction motor Frame 254JM - IP23	23-SEP-2016

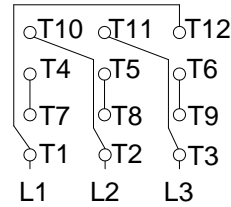
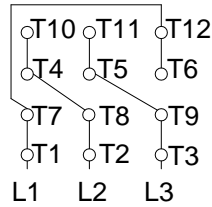


1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F

LOW VOLTAGE

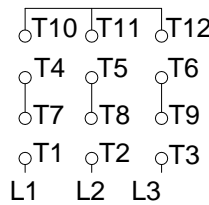
HIGH VOLTAGE



CONNECTIONS FOR STARTING ONLY:

LOW VOLTAGE

HIGH VOLTAGE



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Customer:

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

Three-phase induction motor  
Frame 254JM - IP23

23-SEP-2016

