



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 - High Efficiency

Catalog Number : 02036OP3E254JM

List Price : \$1,816

Notes:

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Generated for Model #02036OP3E254JM

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Date: 23-SEP-2016

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

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

Frame : 254JM  
 Output : 20 HP  
 Frequency : 60 Hz  
 Poles : 2  
 Full load speed : 3540 rpm  
 Slip : 1.67 %  
 Voltage : 230/460 V  
 Rated current : 48.6/24.3 A  
 Locked rotor current : 282/141 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 5.8  
 No-load current : 16.4/8.20 A  
 Full load torque : 29.3 lb.ft  
 Locked rotor torque : 190 %  
 Breakdown torque : 250 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 10 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP23  
 Approximate weight : 179 lb  
 Moment of inertia : 0.80279 sq.ft.lb  
 Noise level : 66 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%	0.86	90.2
75%	0.83	90.2
50%	0.74	89.5

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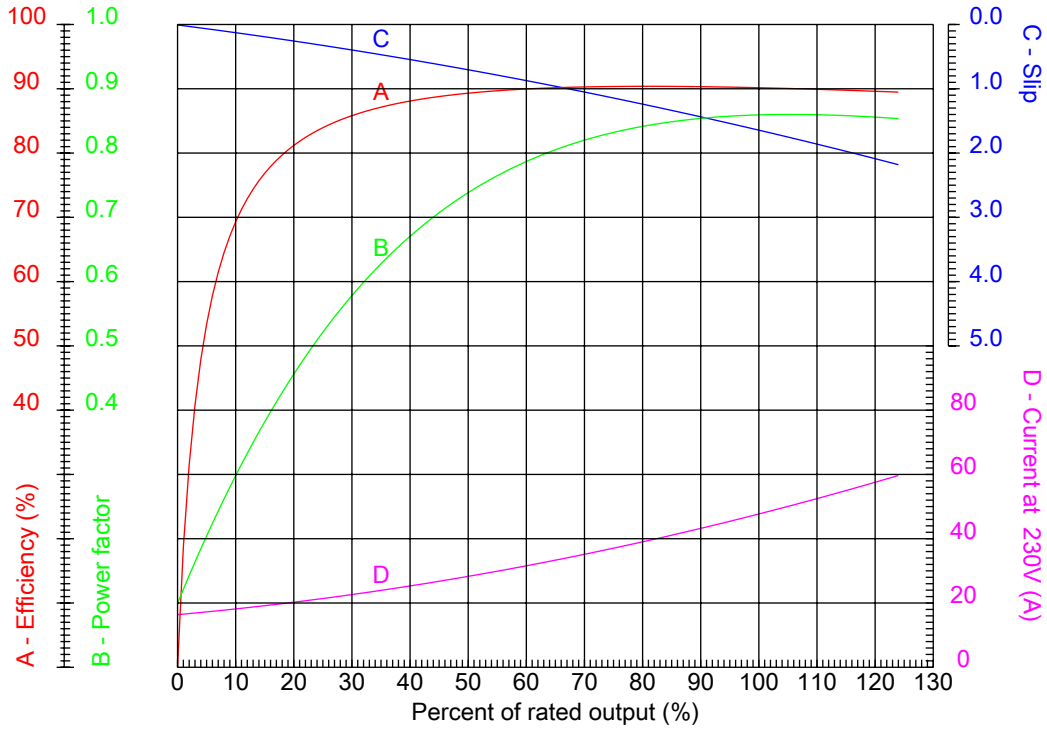
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 254JM	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 5.8
Output	: 20 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3540 rpm	Design	: B
Voltage	: 230/460 V	Locked rotor torque	: 190 %
Rated current	: 48.6/24.3 A	Breakdown torque	: 250 %
Insulation class	: F		

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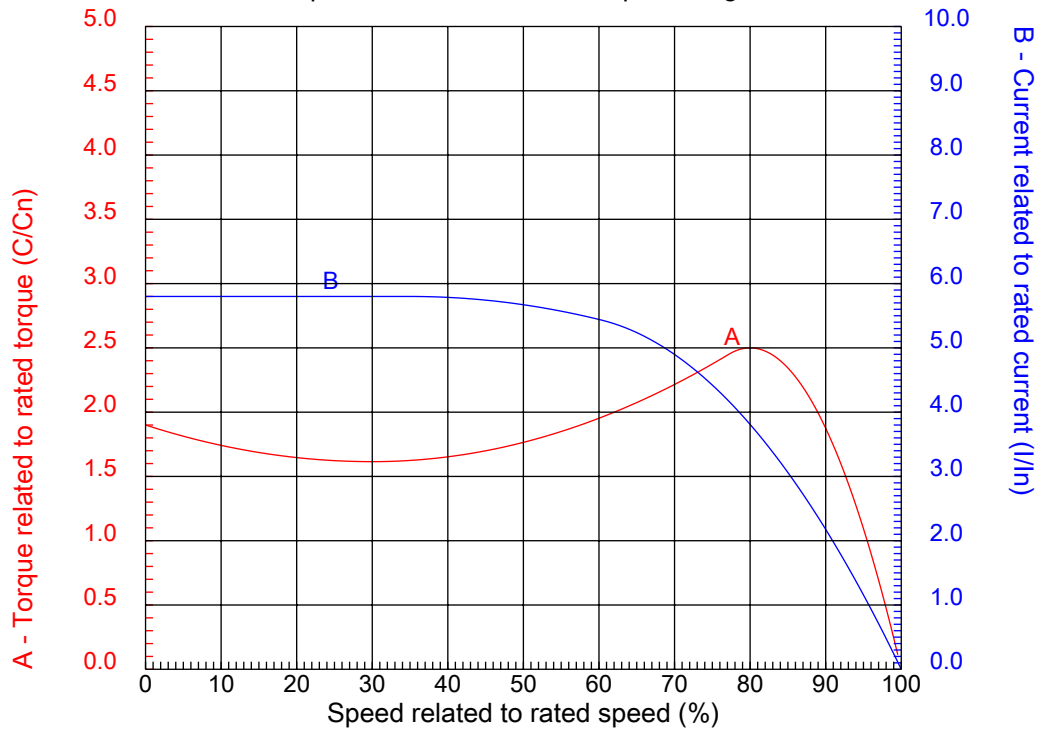
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 254JM	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 5.8
Output	: 20 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3540 rpm	Design	: B
Voltage	: 230/460 V	Locked rotor torque	: 190 %
Rated current	: 48.6/24.3 A	Breakdown torque	: 250 %
Insulation class	: F		

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

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Customer:

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

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 - High Efficiency

Three-phase induction motor  
Frame 254JM - IP23

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