



Dealers Industrial Equipment

No.:

Date: 13-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 : 00712OT3E254JM

List Price : \$1,985

Notes:

Downloaded from <http://dealerselectric.com>

Generated for Model #00712OT3E254JM

Performed by:

Checked:



Dealers Industrial Equipment

No.:

Date: 13-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 : 7.5 HP
 Frequency : 60 Hz
 Poles : 6
 Full load speed : 1175 rpm
 Slip : 2.08 %
 Voltage : 208-230/460 V
 Rated current : 21.4-19.4/9.69 A
 Locked rotor current : 134/66.9 A
 Locked rotor current (I_L/I_n) : 6.9
 No-load current : 10.4/5.20 A
 Full load torque : 33.1 lb.ft
 Locked rotor torque : 240 %
 Breakdown torque : 300 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 12 s (hot)
 Service factor : 1.15
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP23
 Approximate weight : 232 lb
 Moment of inertia : 2.7268 sq.ft.lb
 Noise level : 56 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%	0.79	90.2
75%	0.72	89.5
50%	0.59	87.5

Notes:
 Downloaded from <http://dealerselectric.com>
 Generated for Model #00712OT3E254JM

Performed by

Checked



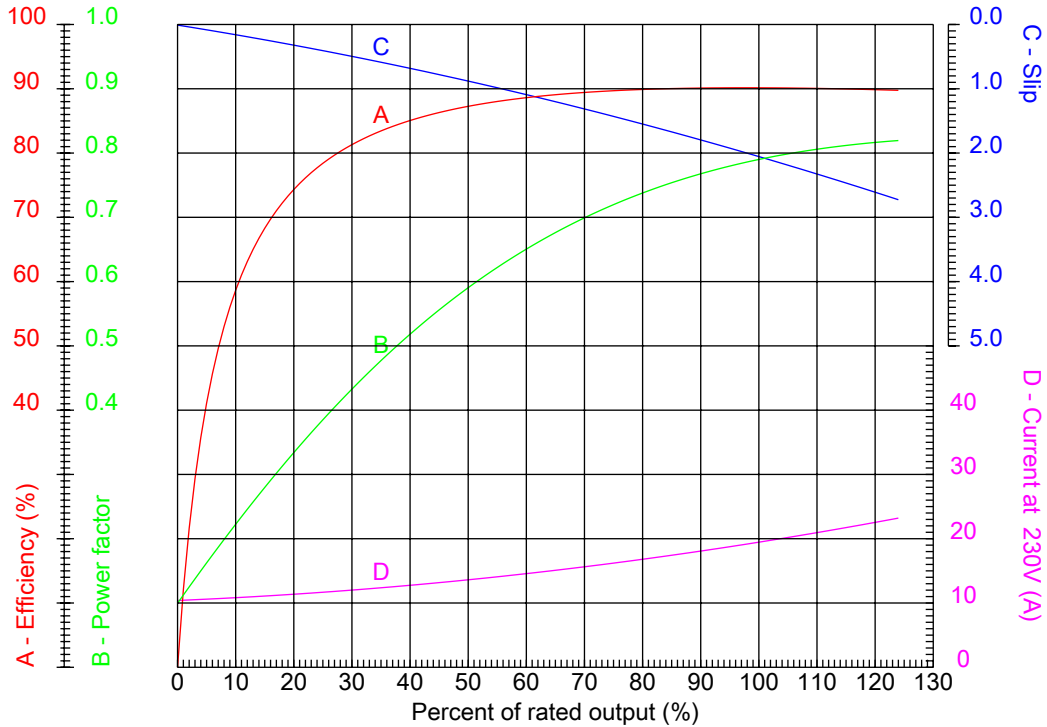
Dealers Industrial Equipment

No.:

Date: 13-SEP-2016

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 _l /I _n)	: 6.9
Output	: 7.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1175 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 240 %
Rated current	: 21.4-19.4/9.69 A	Breakdown torque	: 300 %
Insulation class	: F		

Notes:
 Downloaded from <http://dealerselectric.com>
 Generated for Model #00712OT3E254JM

Performed by

Checked



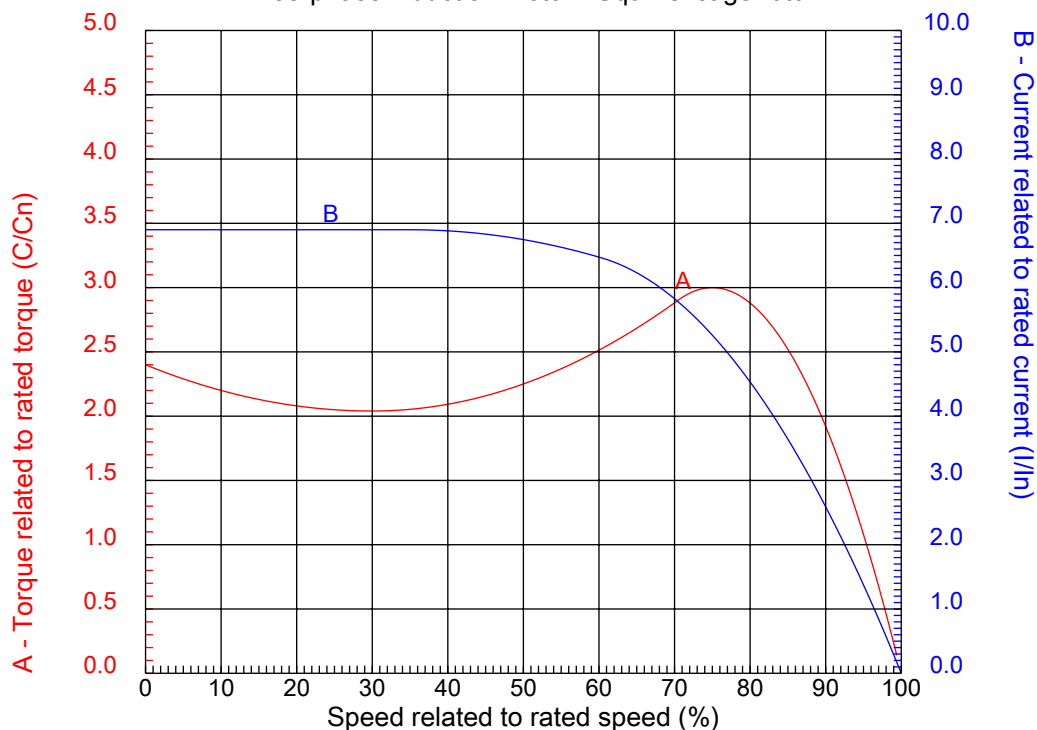
Dealers Industrial Equipment

No.:

Date: 13-SEP-2016

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 _l /I _n)	: 6.9
Output	: 7.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1175 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 240 %
Rated current	: 21.4-19.4/9.69 A	Breakdown torque	: 300 %
Insulation class	: F		

Notes:
Downloaded from <http://dealerselectric.com>
Generated for Model #00712OT3E254JM

Performed by

Checked



Notes: Downloaded from <http://dealerselectric.com>
Generated for Model #00712OT3E254JM

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	13-SEP-2016

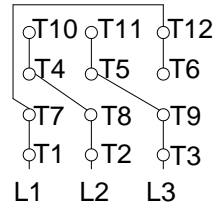


1 2 3 4 5 6 7 8

A

LOW VOLTAGE

HIGH VOLTAGE

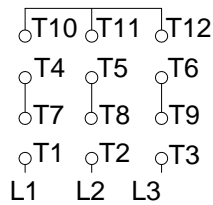
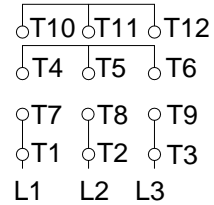


B

CONNECTIONS FOR STARTING ONLY:

LOW VOLTAGE

HIGH VOLTAGE



C

D

E

F

Notes: Downloaded from <http://dealerselectric.com>
Generated for Model #007120T3E254JM

Performed by:

Checked:

Customer:

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

Three-phase induction motor
Frame 254JM - IP23

13-SEP-2016

