



# Dealers Industrial Equipment

No.:

Date: 28-SEP-2016

Customer :

## TECHNICAL PROPOSAL

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

Product line : ODP – Open Induction Motors – NEMA Premium Efficiency

Catalog Number : 20018OT3G445TS

List Price : \$13,004

#### Notes:

Downloaded from <http://dealerselectric.com>

Generated for Model #20018OT3G445TS

Performed by:

Checked:



# Dealers Industrial Equipment

No.:

Date: 28-SEP-2016

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

Customer :  
 Product line : ODP – Open Induction Motors – NEMA Premium Efficiency

Frame : 445TS  
 Output : 200 HP  
 Frequency : 60 Hz  
 Poles : 4  
 Full load speed : 1780 rpm  
 Slip : 1.11 %  
 Voltage : 460 V  
 Rated current : 229 A  
 Locked rotor current : 1400 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.1  
 No-load current : 75.0 A  
 Full load torque : 582 lb.ft  
 Locked rotor torque : 200 %  
 Breakdown torque : 230 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 16 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP23  
 Approximate weight : 1740 lb  
 Moment of inertia : 49.541 sq.ft.lb  
 Noise level : 78 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6314 C3	6314 C3	100%	0.86	95.8
Regreasing interval	20000 h	20000 h	75%	0.83	95.8
Grease amount	27 g	27 g	50%	0.76	95.4

Notes:  
 Downloaded from <http://dealerselectric.com>  
 Generated for Model #20018OT3G445TS

Performed by

Checked

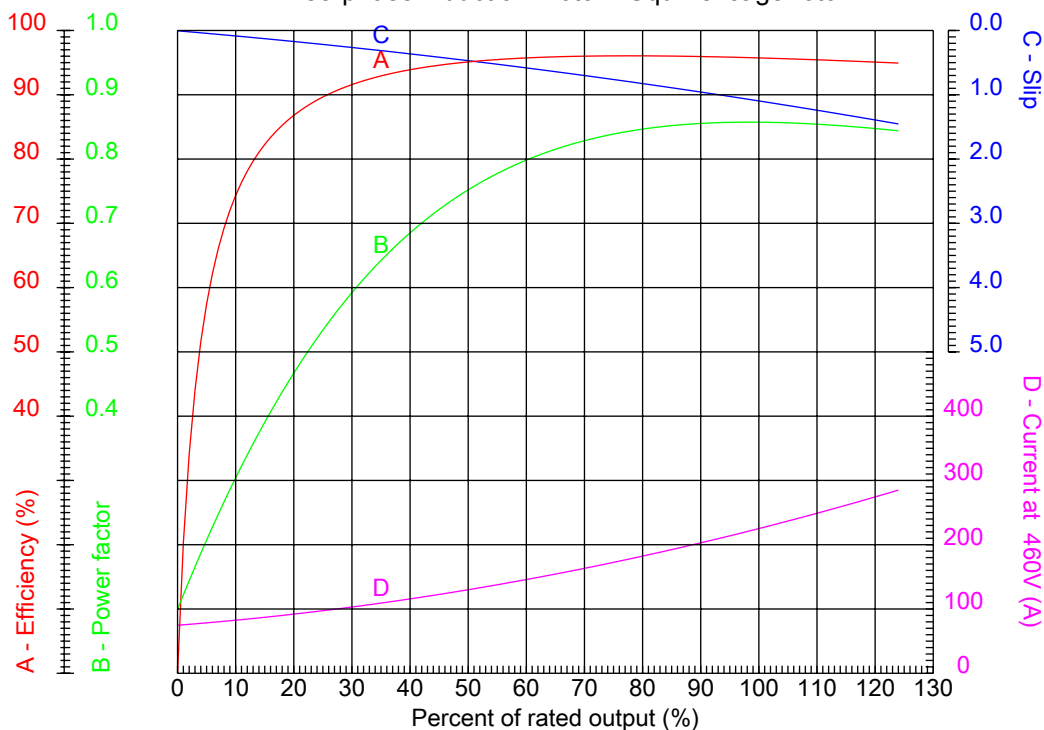


# Dealers Industrial Equipment

No.:

Date: 28-SEP-2016

## PERFORMANCE CURVES RELATED TO RATED OUTPUT Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : ODP – Open Induction Motors – NEMA Premium Efficiency

Frame : 445TS	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) : 6.1
Output : 200 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 1780 rpm	Design : B
Voltage : 460 V	Locked rotor torque : 200 %
Rated current : 229 A	Breakdown torque : 230 %
Insulation class : F	

Notes:  
Downloaded from <http://dealerselectric.com>  
Generated for Model #20018OT3G445TS

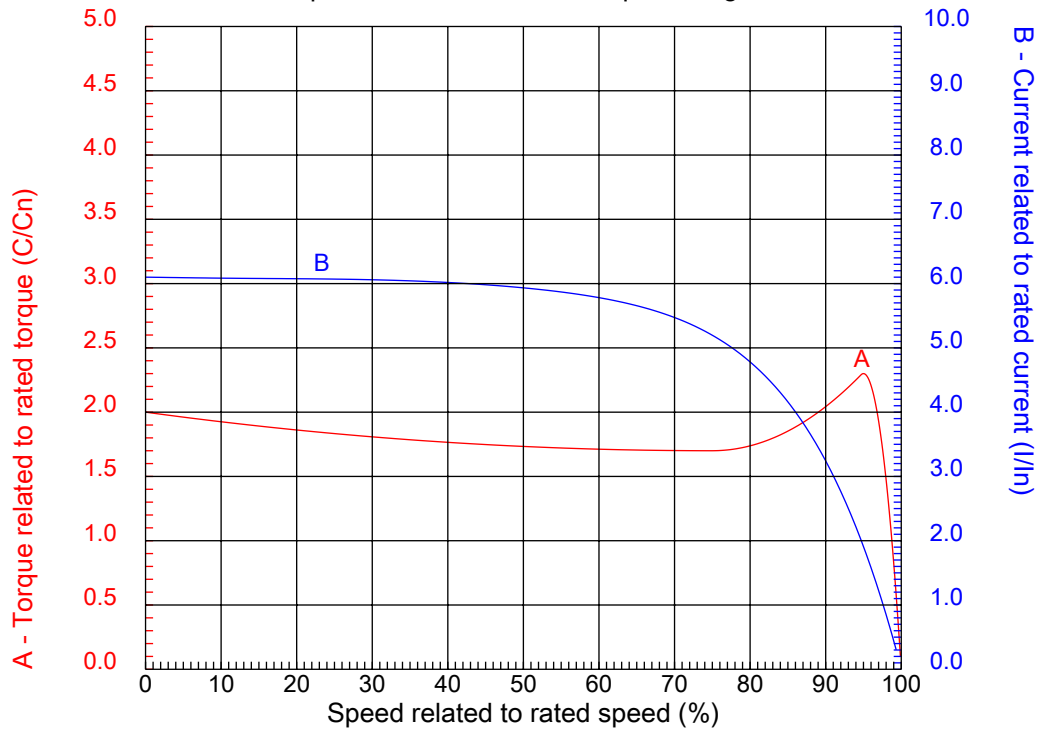
Performed by

Checked



## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : ODP – Open Induction Motors – NEMA Premium Efficiency

Frame	: 445TS	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.1
Output	: 200 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1780 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 200 %
Rated current	: 229 A	Breakdown torque	: 230 %
Insulation class	: F		

Notes:  
Downloaded from <http://dealerselectric.com>  
Generated for Model #20018OT3G445TS

Performed by

Checked



Notes: Downloaded from <http://dealerselectric.com>  
 Generated for Model #20018OT3G445TS

Performed by:

Checked:

Customer:

ODP – Open Induction Motors – NEMA Premium Efficiency

2E	J	A	P	AB
18.000	3.937	21.929	22.125	20.236
2F	K	B	BA	U
14.500/16.500	5.590	20.078	7.500	2.375
d1	N-W	ES	S	R
DUNC 3/4"-10	4.750	3.000	0.625	2.021
depth	D	G	O	T
0.625	11.000	1.811	22.440	3.544
H	C	AA		
0.807	36.062	2xNPT 3"		

Three-phase induction motor  
 Frame 445TS - IP23

28-SEP-2016



1 2 3 4 5 6 7 8

A

### PART-WINDING

### WYE-DELTA

#### START

#### RUN

#### START

#### RUN

B



C

L1 L2 L3

L1 L2 L3

L1 L2 L3

L1 L2 L3

D

E

F

Notes: Downloaded from <http://dealerselectric.com>  
 Generated for Model #20018OT3G445TS

Performed by:

Checked:

Customer:

ODP – Open Induction Motors – NEMA Premium Efficiency

Three-phase induction motor  
 Frame 445TS - IP23

28-SEP-2016

