



Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three Phase: W01 (Rolled Steel) - ODP - Premium Efficiency (DOE)

Catalog Number : .5018OT3E56C-S

List Price : \$324

Notes:

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Generated for Model #.5018OT3E56C-S

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No.:

Date: 12-SEP-2016

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

Customer :  
 Product line : Three Phase: W01 (Rolled Steel) - ODP - Premium Efficiency (DOE)

Frame : 56  
 Output : 0.5 HP  
 Frequency : 60 Hz  
 Poles : 4  
 Full load speed : 1765 rpm  
 Slip : 1.94 %  
 Voltage : 208-230/460 V  
 Rated current : 1.90-1.72/0.861 A  
 Locked rotor current : 12.4/6.20 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.2  
 No-load current : 1.30/0.650 A  
 Full load torque : 1.47 lb.ft  
 Locked rotor torque : 240 %  
 Breakdown torque : 330 %  
 Design : A  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 27 s (hot)  
 Service factor : 1.25  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : ODP  
 Approximate weight : 20 lb  
 Moment of inertia : 0.05838 sq.ft.lb  
 Noise level : 52 dB(A)

	D.E.	N.D.E.
Bearings	6203 ZZ	6202 ZZ
Regreasing interval	---	---
Grease amount	---	---

Load	Power factor	Efficiency (%)
100%	0.69	78.2
75%	0.60	75.5
50%	0.47	70.0

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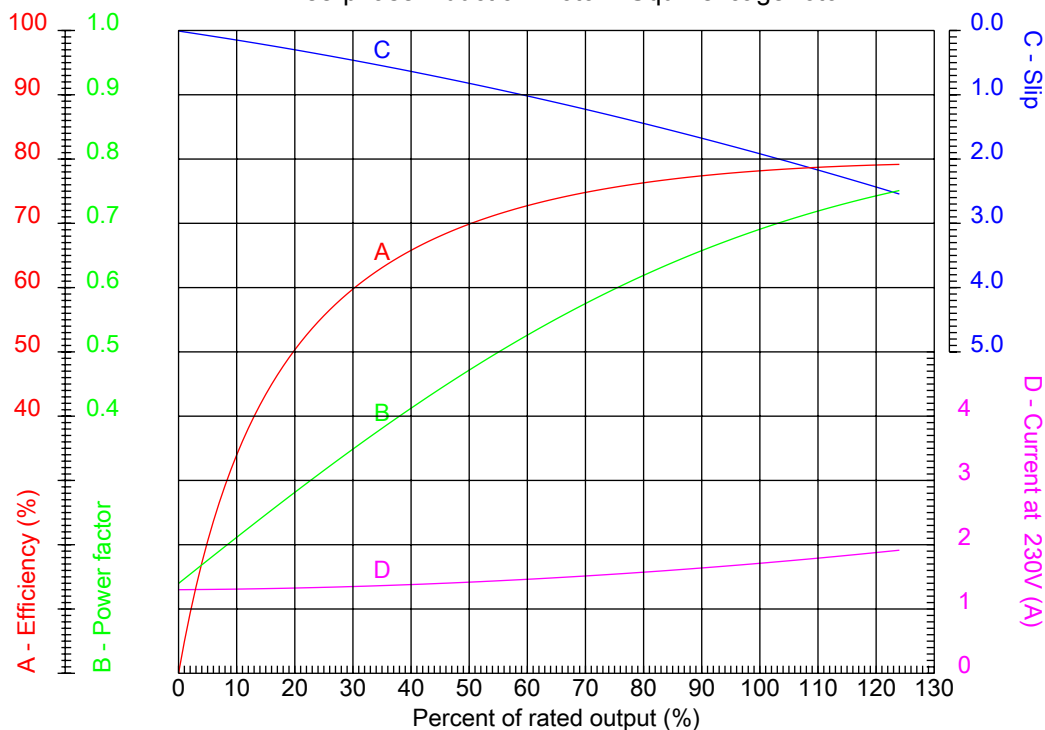
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
 Product line : Three Phase: W01 (Rolled Steel) - ODP - Premium Efficiency (DOE)

Frame	: 56	Locked rotor current (I <sub>L</sub> /I <sub>n</sub> )	: 7.2
Output	: 0.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1765 rpm	Design	: A
Voltage	: 208-230/460 V	Locked rotor torque	: 240 %
Rated current	: 1.90-1.72/0.861 A	Breakdown torque	: 330 %
Insulation class	: F		

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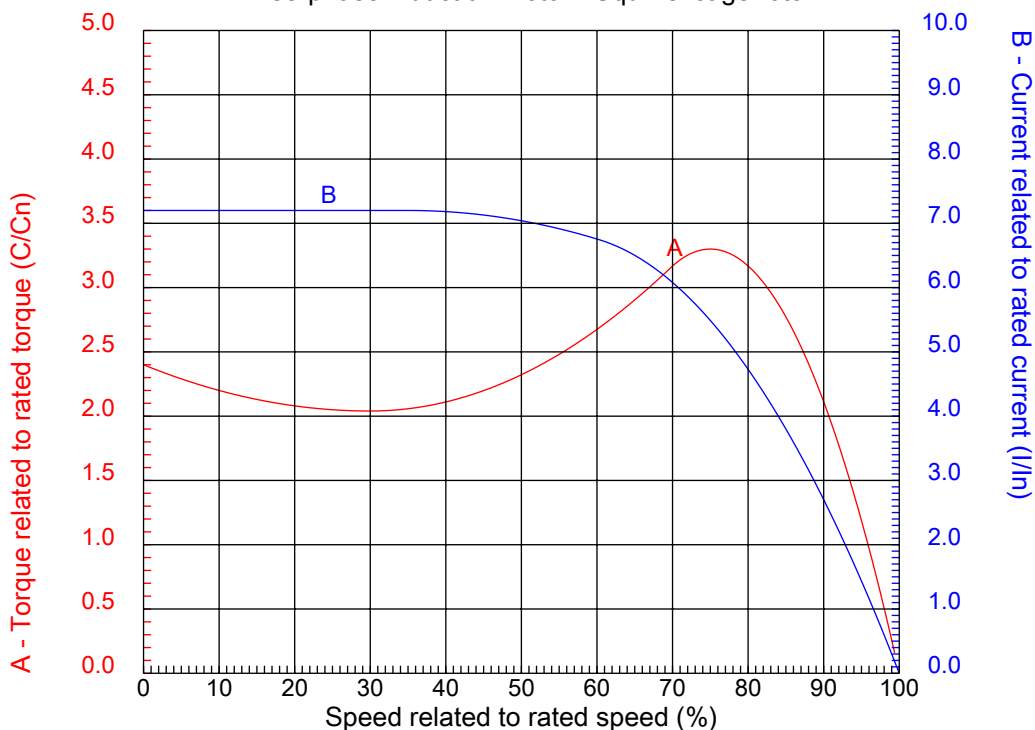
Performed by

Checked



## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



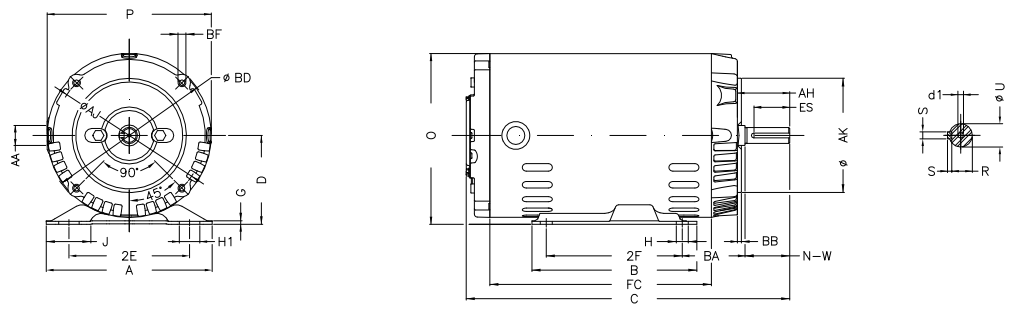
Customer :  
Product line : Three Phase: W01 (Rolled Steel) - ODP - Premium Efficiency (DOE)

Frame	: 56	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.2
Output	: 0.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1765 rpm	Design	: A
Voltage	: 208-230/460 V	Locked rotor torque	: 240 %
Rated current	: 1.90-1.72/0.861 A	Breakdown torque	: 330 %
Insulation class	: F		

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P	AB	J	2E	A
6.456	3.323	1.732	4.874	6.535
H	G	HB	HK	T
0.343	0.120	1.784	2.629	0.004
O	FC	2F	B	C
6.724	6.693	3.000	4.016	10.709
BA	N-W	ES	d1	S
2.750	1.874	1.417	A 3.15	0.187
U	AA	depth	R	LL
0.625	NPT 1/2"	0.187	0.517	4.563
LM	D	Flange	AJ	AK
4.090	3.500	FC-149	5.874	4.500
BD	BF	BB	AH	
6.450	UNC 3/8"x16-2B	0.157	2.062	

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Customer:	Three Phase: W01 (Rolled Steel) - ODP - Premium Efficiency (DOE)
Three-phase induction motor Frame 56 - ODP	12-SEP-2016

