



Dealers Industrial Equipment

No.:

Date: 28-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Catalog Number : 10018ST3QIE405T-W22

List Price : \$12,471

Notes:

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## DATA SHEET

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

Customer :  
 Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Frame : 404/5T  
 Output : 100 HP  
 Frequency : 60 Hz  
 Poles : 4  
 Full load speed : 1775 rpm  
 Slip : 1.39 %  
 Voltage : 460 V  
 Rated current : 116 A  
 Locked rotor current : 719 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.2  
 No-load current : 32.0 A  
 Full load torque : 292 lb.ft  
 Locked rotor torque : 240 %  
 Breakdown torque : 220 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 13 s (hot)  
 Service factor : 1.25  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP55  
 Approximate weight : 1140 lb  
 Moment of inertia : 29.894 sq.ft.lb  
 Noise level : 68 dB(A)

	D.E.	N.D.E.
Bearings	6316 C3	6314 C3
Regreasing interval	10000 h	12000 h
Grease amount	34 g	27 g

Load	Power factor	Efficiency (%)
100%	0.85	95.4
75%	0.84	95.0
50%	0.77	95.0

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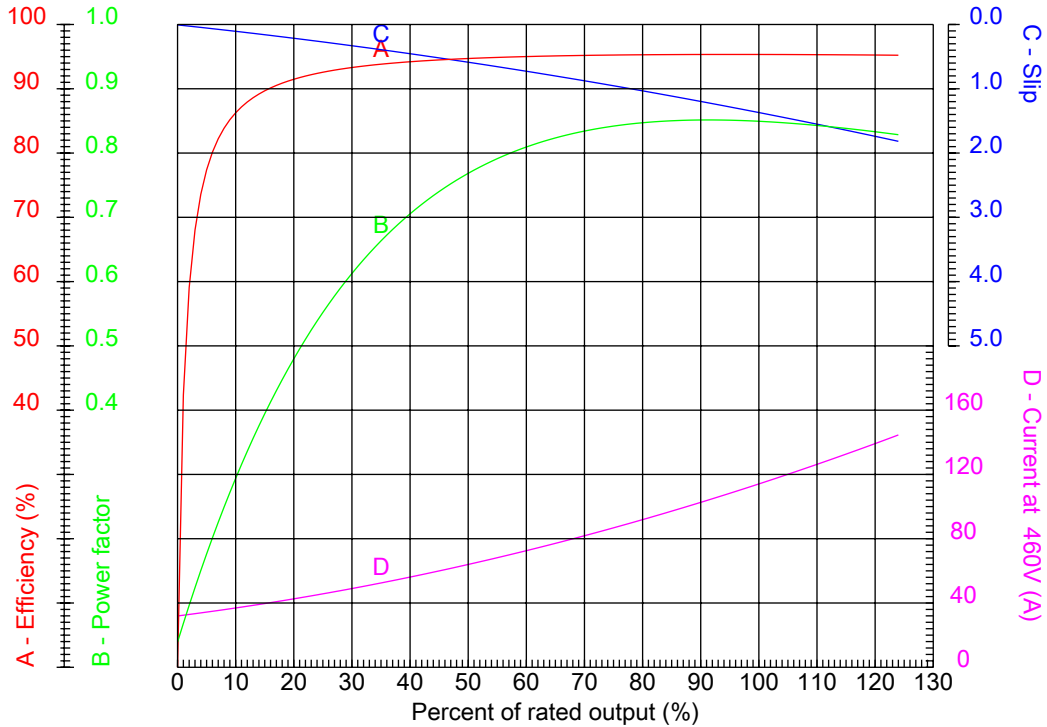
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
 Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Frame	: 404/5T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.2
Output	: 100 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1775 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 240 %
Rated current	: 116 A	Breakdown torque	: 220 %
Insulation class	: F		

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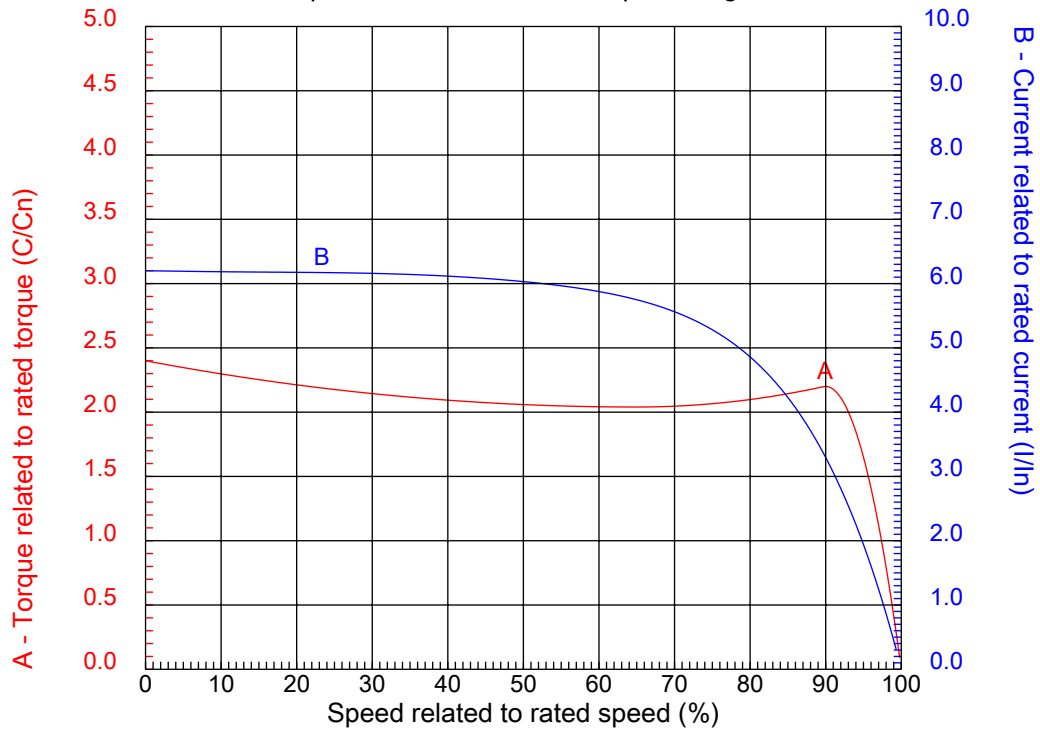
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Frame	: 404/5T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.2
Output	: 100 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1775 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 240 %
Rated current	: 116 A	Breakdown torque	: 220 %
Insulation class	: F		

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1 2 3 4 5 6 7 8

A

B

C

D

E

F



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Customer:

Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Three-phase induction motor  
Frame 404/5T - IP55

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2E 15.984	J 3.937	A 19.921	P 19.134	AB 16.016
2F 12.244/13.740	K 5.669	B 18.386	BA 6.625	U 2.875
N-W 7.250	ES 5.708	S 0.750	R 2.449	depth 0.750
D 10.000	G 1.811	HB 5.252	O 19.566	HH 13.496
HK 6.024	H 0.810	C 39.730	LL 10.591	LM 11.267
AA NPT 3"	d1 DUNC 3/4"-10	d2 DUNC 3/4"-10		

1 2 3 4 5 6 7 8

A

B

C

D

E

F



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Customer:

Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Three-phase induction motor  
Frame 404/5T - IP55

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