



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 : 20036ST3HIE447TS-W22

List Price : \$28,568

Notes:

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Dealers Industrial Equipment

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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 : 445/7TS
 Output : 200 HP
 Frequency : 60 Hz
 Poles : 2
 Full load speed : 3570 rpm
 Slip : 0.83 %
 Voltage : 575 V
 Rated current : 175 A
 Locked rotor current : 1140 A
 Locked rotor current (I_L/I_n) : 6.5
 No-load current : 36.0 A
 Full load torque : 290 lb.ft
 Locked rotor torque : 210 %
 Breakdown torque : 230 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 14 s (hot)
 Service factor : 1.15
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP55
 Approximate weight : 1914 lb
 Moment of inertia : 44.677 sq.ft.lb
 Noise level : 81 dB(A)

	D.E.	N.D.E.
Bearings	6314 C3	6314 C3
Regreasing interval	4000 h	4000 h
Grease amount	27 g	27 g

Load	Power factor	Efficiency (%)
100%	0.90	95.4
75%	0.89	95.4
50%	0.86	95.0

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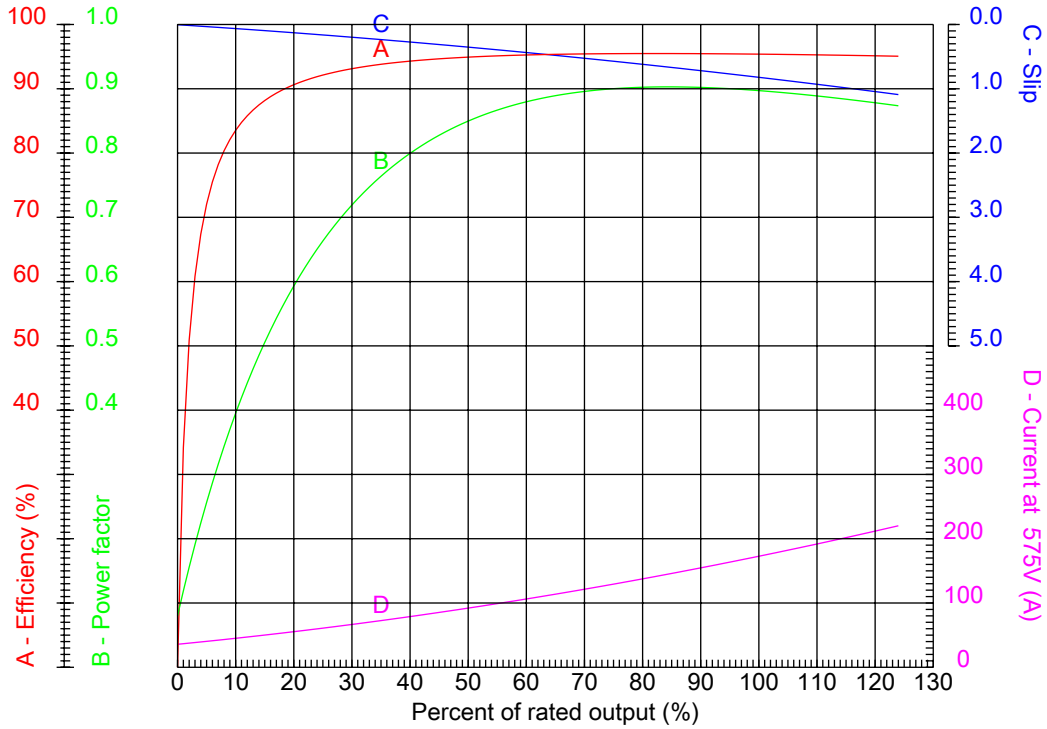
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 445/7TS	Locked rotor current (I _l /I _n)	: 6.5
Output	: 200 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3570 rpm	Design	: B
Voltage	: 575 V	Locked rotor torque	: 210 %
Rated current	: 175 A	Breakdown torque	: 230 %
Insulation class	: F		

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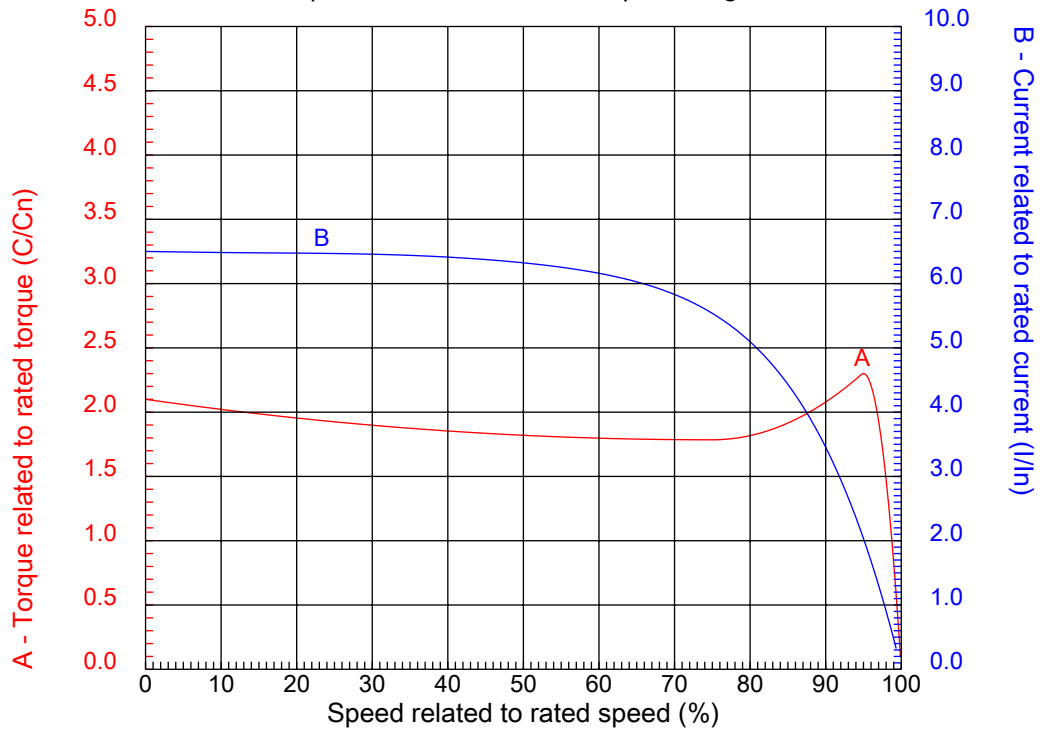
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 445/7TS	Locked rotor current (I _l /I _n)	: 6.5
Output	: 200 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3570 rpm	Design	: B
Voltage	: 575 V	Locked rotor torque	: 210 %
Rated current	: 175 A	Breakdown torque	: 230 %
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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2E 18.000	J 3.937	A 21.929	P 23.583	AB 20.559
2F 16.500/20.000	K 7.244	B 23.897	BA 7.500	U 2.375
N-W 4.750	ES 3.000	S 0.625	R 2.021	depth 0.625
D 11.000	G 1.654	HB 12.488	O 22.795	HD 27.527
HF 20.724	HG 26.830	HH 11.811	HK 6.929	H 0.810
C 44.951	LL 14.921	LM 15.039	AA 2xNPT 3"	d1 DUNC 3/4"-10
d2 DUNC 3/4"-10				

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Customer:

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

Three-phase induction motor
 Frame 445/7TS - IP55

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1 2 3 4 5 6 7 8

A

B

C

D

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Customer:

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

Three-phase induction motor
Frame 445/7TS - IP55

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