



Dealers Industrial Equipment

No.:

Date: 27-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 : 10012ST3QIE444T-W22

List Price : \$17,933

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 : 444/5T
 Output : 100 HP
 Frequency : 60 Hz
 Poles : 6
 Full load speed : 1185 rpm
 Slip : 1.25 %
 Voltage : 460 V
 Rated current : 121 A
 Locked rotor current : 714 A
 Locked rotor current (I_L/I_n) : 5.9
 No-load current : 42.0 A
 Full load torque : 437 lb.ft
 Locked rotor torque : 220 %
 Breakdown torque : 230 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 20 s (hot)
 Service factor : 1.25
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP55
 Approximate weight : 1577 lb
 Moment of inertia : 87.260 sq.ft.lb
 Noise level : 69 dB(A)

	D.E.	N.D.E.
Bearings	6319 C3	6316 C3
Regreasing interval	13000 h	16000 h
Grease amount	45 g	34 g

Load	Power factor	Efficiency (%)
100%	0.82	95.0
75%	0.78	95.0
50%	0.68	94.5

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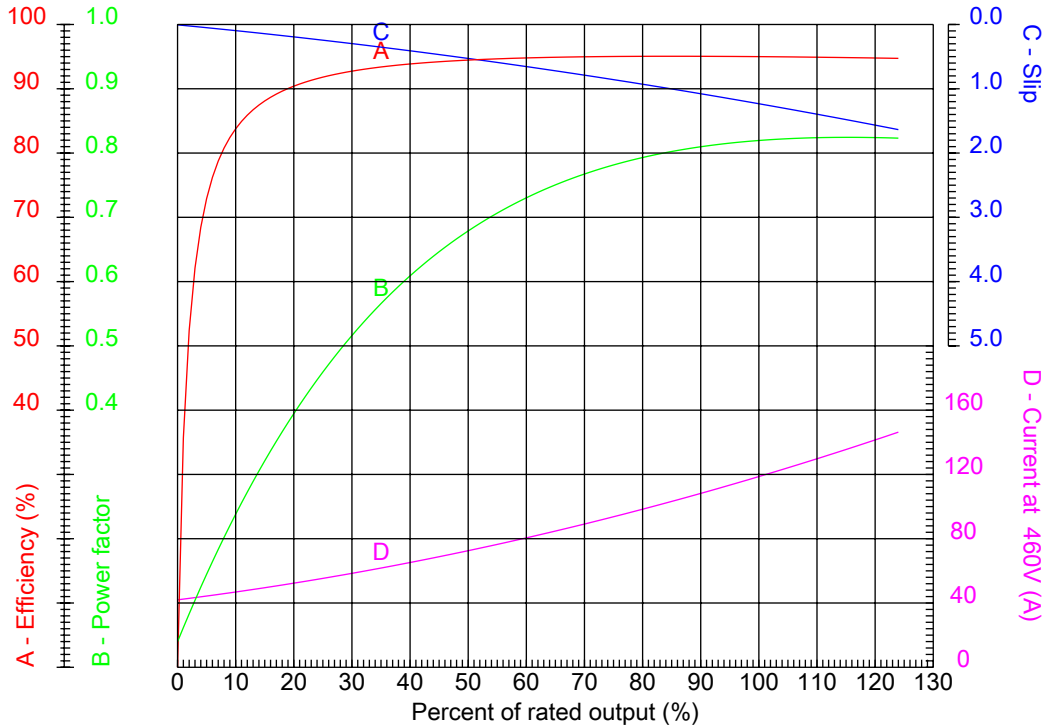
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 444/5T	Locked rotor current (I _l /I _n)	: 5.9
Output	: 100 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1185 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 220 %
Rated current	: 121 A	Breakdown torque	: 230 %
Insulation class	: F		

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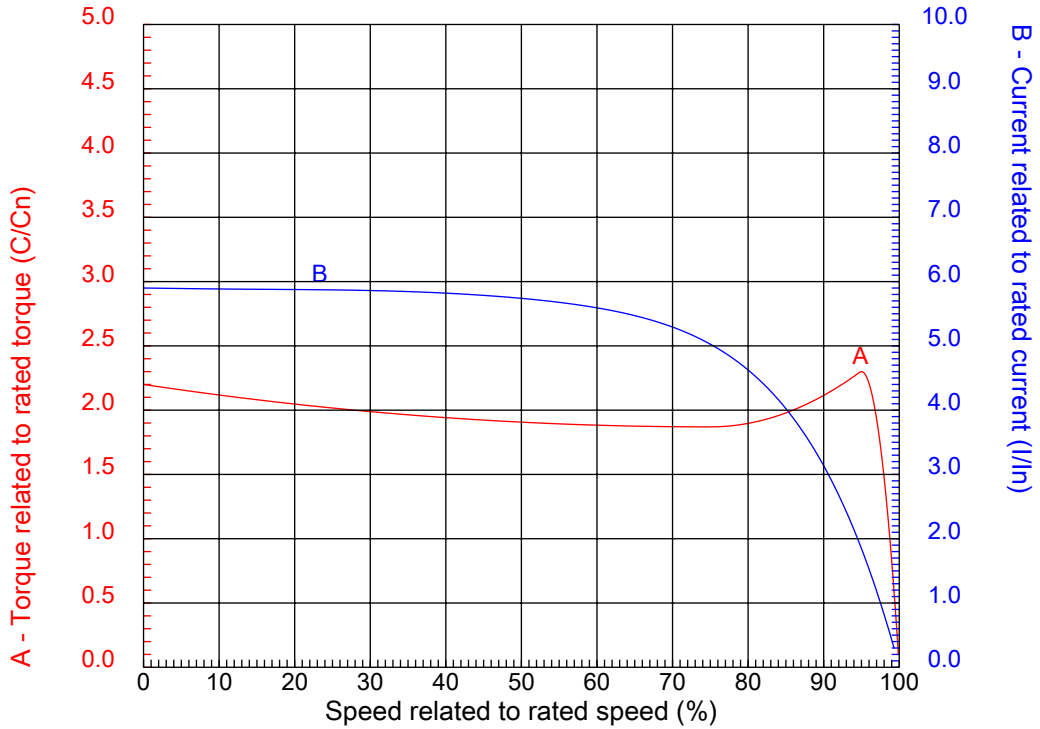
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	:	444/5T	Locked rotor current (I _l /I _h)	:	5.9
Output	:	100 HP	Duty cycle	:	S1
Frequency	:	60 Hz	Service factor	:	1.25
Full load speed	:	1185 rpm	Design	:	B
Voltage	:	460 V	Locked rotor torque	:	220 %
Rated current	:	121 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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Customer:

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

Three-phase induction motor
Frame 444/5T - IP55

27-SEP-2016



2E 18.000	J 3.937	A 21.929	P 23.583	AB 18.570
2F 14.500/16.500	K 5.866	B 20.315	BA 7.500	U 3.375
N-W 8.500	ES 7.087	S 0.875	R 2.880	depth 0.875
D 11.000	G 1.630	HB 5.687	O 22.795	HH 15.748
HK 5.970	H 0.810	C 44.950	LL 12.362	LM 12.283
AA 2xNPT 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 444/5T - IP55

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