



No.:

Date: 27-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 12509ST3QIE447T-W22

List Price : \$29,733

Notes:

Performed by:

Checked:



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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 : 445/7T
Output : 125 HP
Frequency : 60 Hz
Poles : 8
Full load speed : 890
Slip : 1.11 %
Voltage : 460 V
Rated current : 151 A
Locked rotor current : 906 A
Locked rotor current (I_L/I_n) : 6.0
No-load current : 65.0 A
Full load torque : 728 lb.ft
Locked rotor torque : 180 %
Breakdown torque : 210 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 17 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 1887 lb
Moment of inertia : 103.62 sq.ft.lb
Noise level : 63 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6319 C3	6316 C3	100%	0.79	94.5
Regreasing interval	17000 h	20000 h	75%	0.74	94.5
Grease amount	45 g	34 g	50%	0.64	94.5

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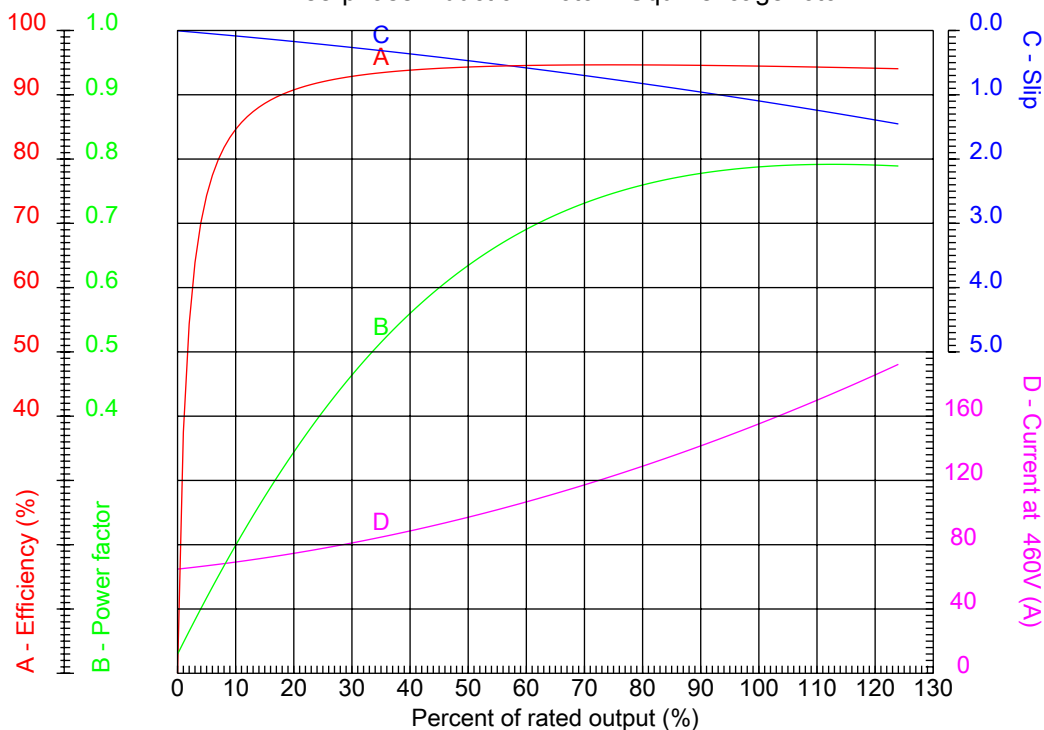


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame : 445/7T	Locked rotor current (I _l /I _n) : 6.0
Output : 125 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 890	Design : B
Voltage : 460 V	Locked rotor torque : 180 %
Rated current : 151 A	Breakdown torque : 210 %
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Notes:

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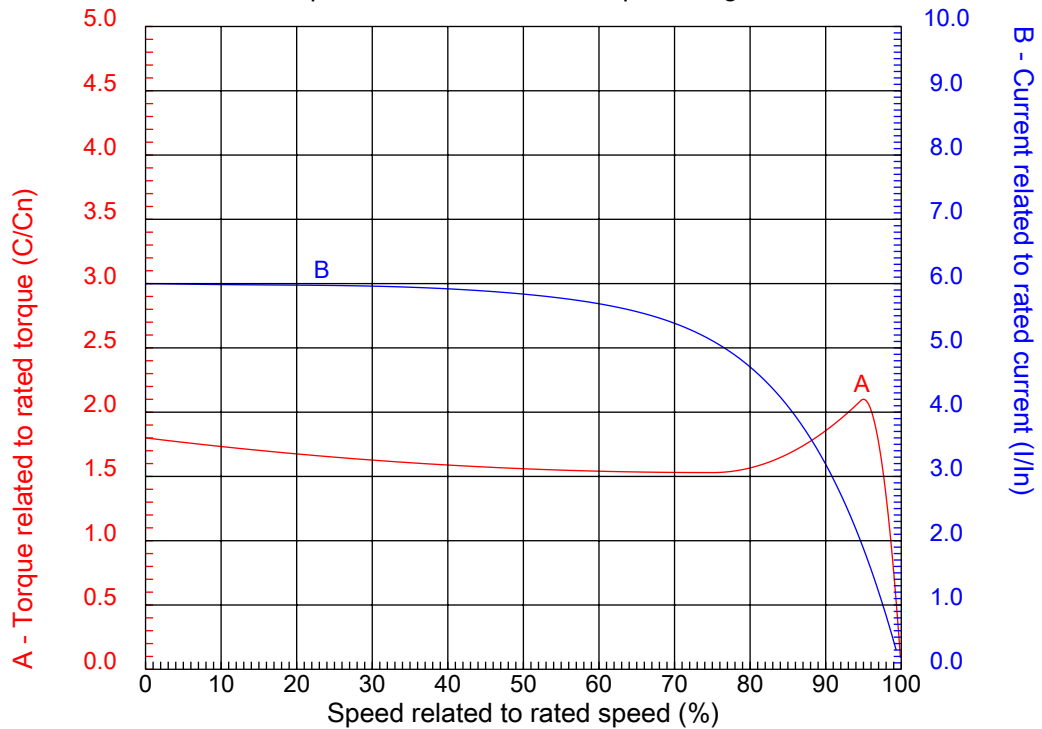


No.:

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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	: 445/7T	Locked rotor current (I _l /I _n)	: 6.0
Output	: 125 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 890	Design	: B
Voltage	: 460 V	Locked rotor torque	: 180 %
Rated current	: 151 A	Breakdown torque	: 210 %
Insulation class	: F		

Notes:

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1 2 3 4 5 6 7 8

A

B

C

D

E

F



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Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency				
Three-phase induction motor			27-DEC-2012	
Frame 445/7T - IP55				

2E	J	A	P	AB
18.000	3.937	21.929	23.583	18.622
2F	K	B	BA	U
16.500/20.000	5.866	23.897	7.500	3.375
N-W	ES	S	R	depth
8.500	7.087	0.875	2.880	0.875
D	G	HB	O	T
11.000	1.654	12.598	22.795	7.378
HD	HF	HG	HH	HK
30.173	20.724	26.850	11.803	6.023
H	C	LL	LM	AA
0.810	48.701	12.362	12.244	2XNPT 3"
d1	d2	Flange	AJ	AK
DUNC 3/4"-10	DUNC 3/4"-10	FD-508	20.000	18.000
BD	BF	BB		
21.65	0.828	0.203		