



No.:

Date: 27-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase : Explosion Proof - NEMA Premium

Catalog Number : 02012XT3E286T

List Price : \$4,444

Notes:

Performed by:

Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : Three-Phase : Explosion Proof - NEMA Premium

Frame : 286T
Output : 20 HP
Frequency : 60 Hz
Poles : 6
Full load speed : 1180
Slip : 1.67 %
Voltage : 208-230/460 V
Rated current : 53.5-48.4/24.2 A
Locked rotor current : 348/174 A
Locked rotor current (I_L/I_n) : 7.2
No-load current : 17.6/8.80 A
Full load torque : 87.8 lb.ft
Locked rotor torque : 250 %
Breakdown torque : 270 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 22 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP54
Approximate weight : 501 lb
Moment of inertia : 8.0231 sq.ft.lb
Noise level : 59 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6311 C3	6211 Z-C3	100%	0.85	91.7
Regreasing interval	20000 h	20000 h	75%	0.80	91.7
Grease amount	18 g	11 g	50%	0.70	91.7

Notes:

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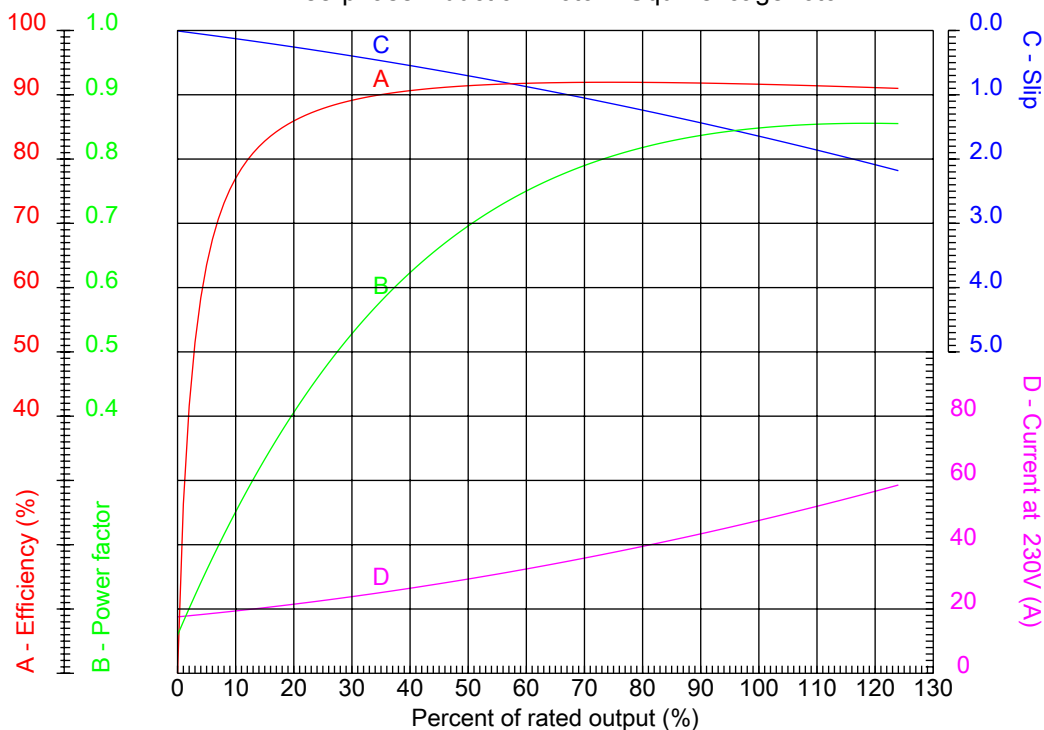
Checked



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PERFORMANCE CURVES RELATED TO RATED OUTPUT Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Three-Phase : Explosion Proof - NEMA Premium

Frame : 286T	Locked rotor current (I _L /I _n) : 7.2
Output : 20 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 1180	Design : B
Voltage : 208-230/460 V	Locked rotor torque : 250 %
Rated current : 53.5-48.4/24.2 A	Breakdown torque : 270 %
Insulation class : F	

Notes:

Performed by

Checked

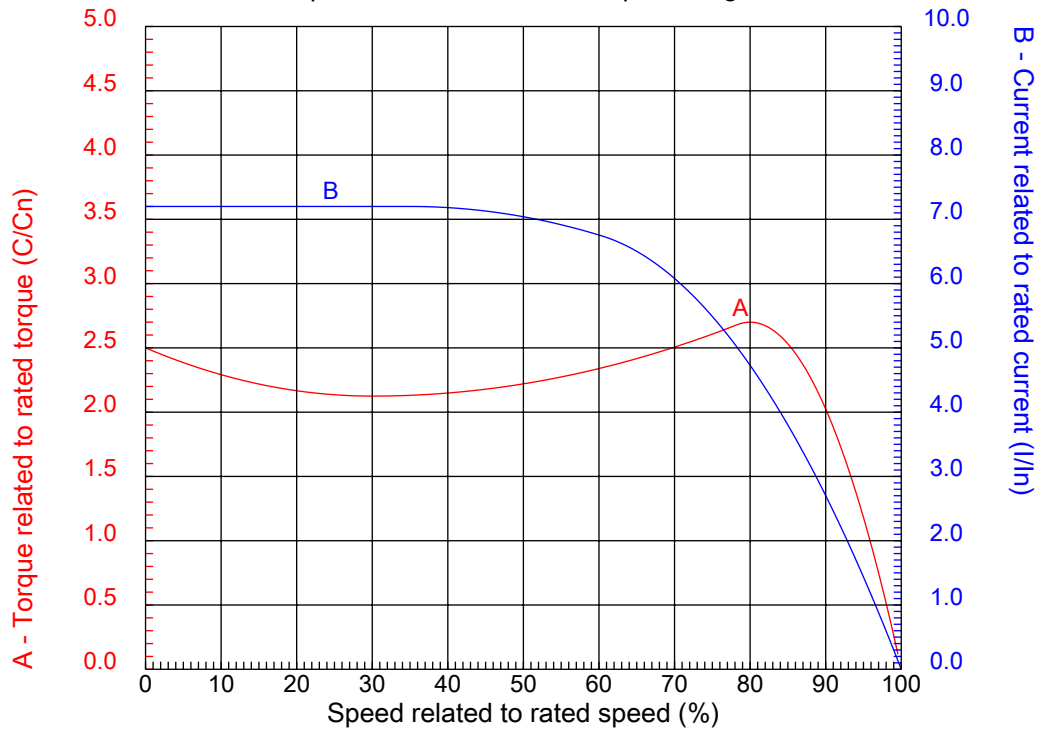


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Three-Phase : Explosion Proof - NEMA Premium

Frame	: 286T	Locked rotor current (I _l /I _n)	: 7.2
Output	: 20 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1180	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 250 %
Rated current	: 53.5-48.4/24.2 A	Breakdown torque	: 270 %
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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Checked:

Customer:

Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor
Frame 286T - IP54

27-DEC-2012



2E 11.000	A 13.780	2F 11.000	B 13.071	BA 4.750
J 3.150	K 2.953	P 14.094	ES 3.149	depth 0.500
S 0.500	N-W 4.622	U 1.875	R 1.594	AB 11.850
D 7.000	G 1.024	O 14.362	HD 16.803	H 0.531
C 27.905	AA NPT 1 1/2"	d1 A 4	d2 A 4	T 2.441
Flange FD-317	AJ 12.500	AK 11.000	BD 14.000	BF 0.828
BB 0.203				