



No.:

Date: 27-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - NEMA Premium

Catalog Number : 03018ET3E286JM-W22

List Price : \$4,096

Notes:

Performed by:

Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - NEMA Premium

Frame : 286JM
Output : 30 HP
Frequency : 60 Hz
Poles : 4
Full load speed : 1765
Slip : 1.94 %
Voltage : 208-230/460 V
Rated current : 77.6-70.2/35.1 A
Locked rotor current : 428/214 A
Locked rotor current (I_L/I_n) : 6.1
No-load current : 22.0/11.0 A
Full load torque : 88.1 lb.ft
Locked rotor torque : 240 %
Breakdown torque : 240 %
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
Degree of Protection : IP55
Approximate weight : 437 lb
Moment of inertia : 5.8532 sq.ft.lb
Noise level : 64 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6311 C3	6211 C3	100%	0.84	93.6
Regreasing interval	20000 h	20000 h	75%	0.80	93.0
Grease amount	18 g	11 g	50%	0.70	93.0

Notes:

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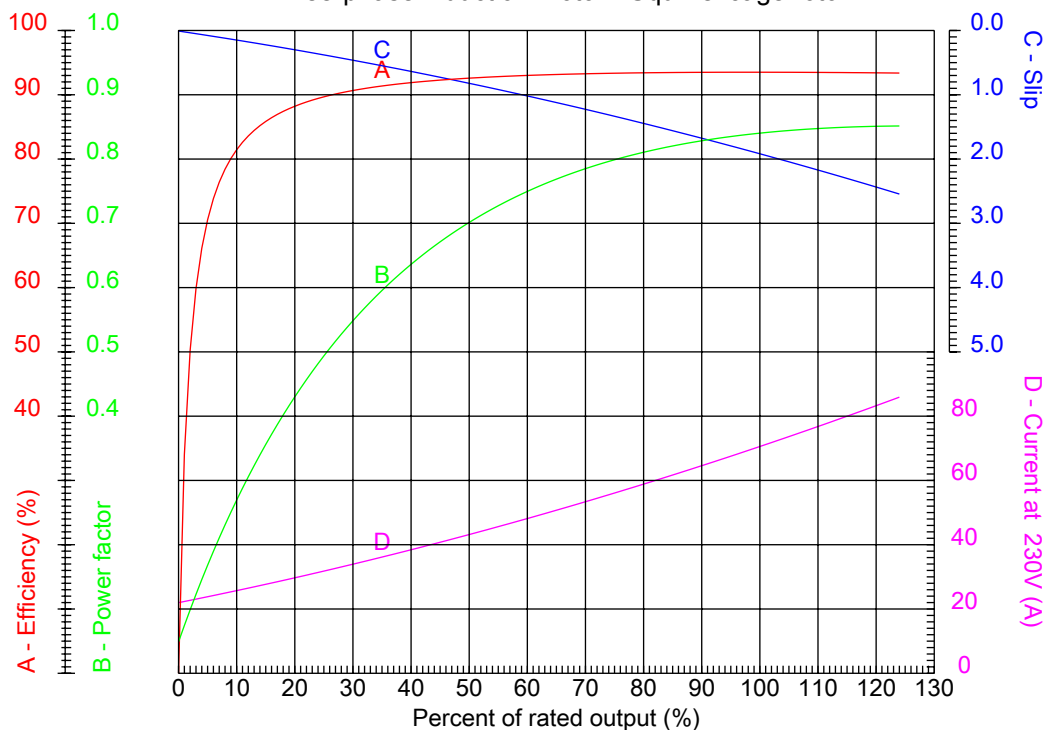


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - NEMA Premium

Frame	: 286JM	Locked rotor current (I _l /I _n)	: 6.1
Output	: 30 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1765	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 240 %
Rated current	: 77.6-70.2/35.1 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:

Performed by

Checked

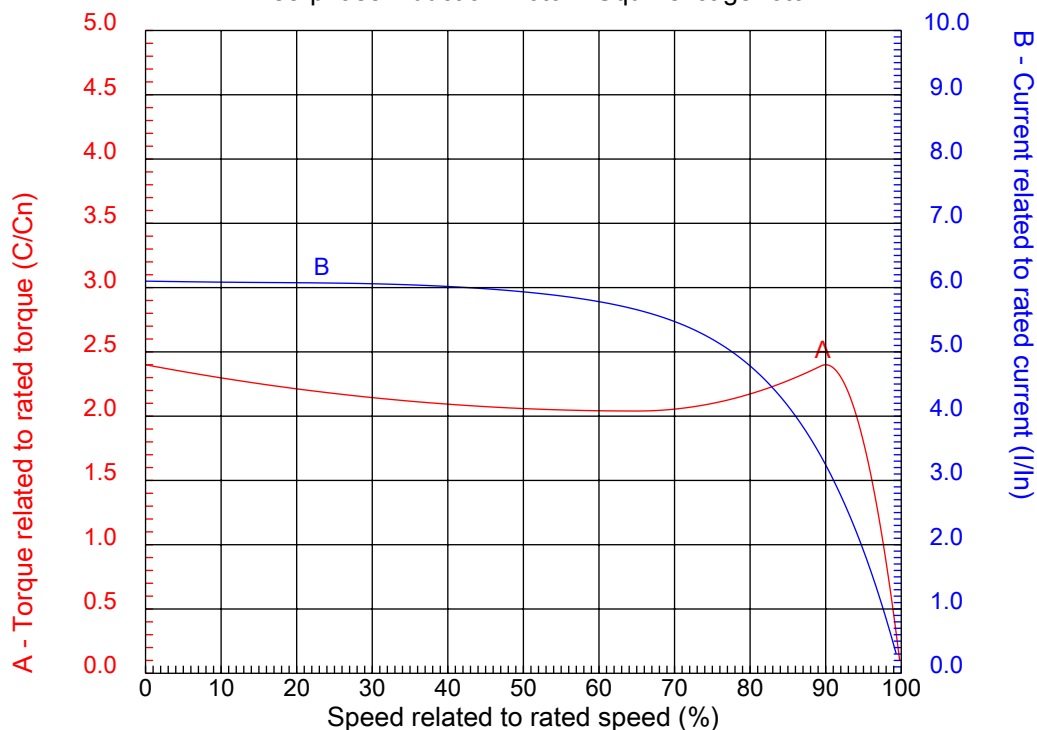


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - NEMA Premium

Frame	: 286JM	Locked rotor current (I _l /I _n)	: 6.1
Output	: 30 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1765	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 240 %
Rated current	: 77.6-70.2/35.1 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:

Performed by

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1 2 3 4 5 6 7 8

A

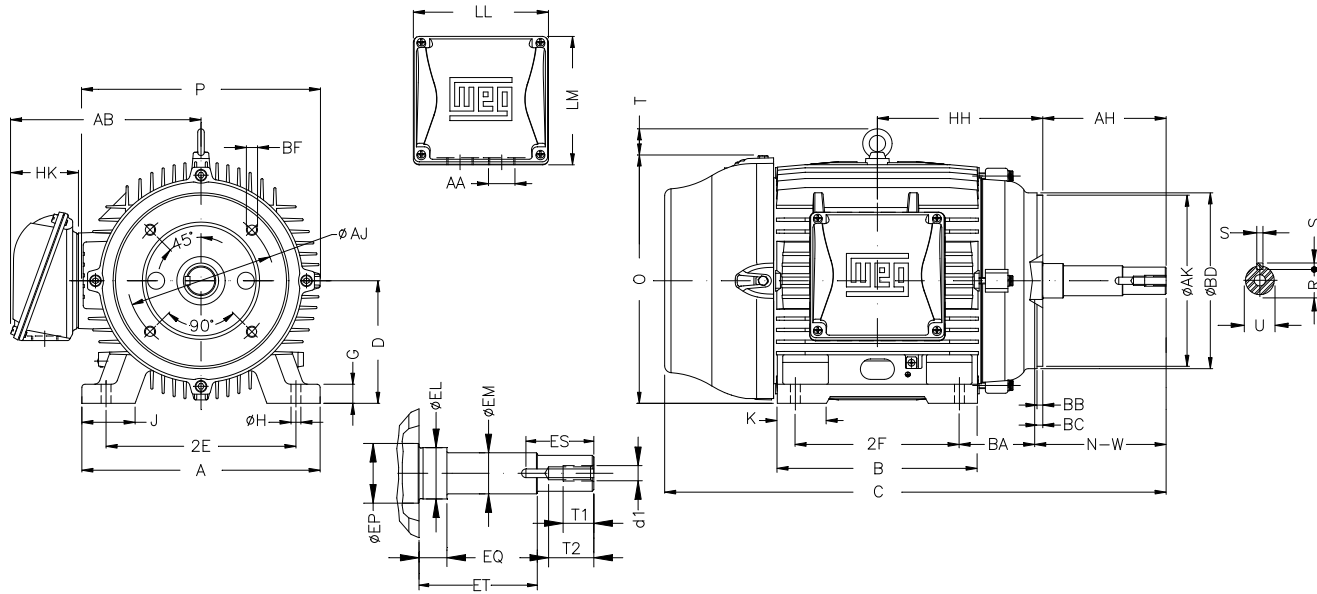
B

C

D

E

F



Notes:

2E 11.000	J 3.110	A 13.780	P 14.173	AB 10.984
2F 11.000	K 2.874	B 13.071	BA 4.750	D 7.000
G 1.023	O 14.067	T 2.087	HD 16.154	H 0.531
AA NPT 1 1/2"	ER 5.250	EQ 0.630	ET 3.006	U 1.249
EM 1.375	EL 1.750	EP 2.163	ES 2.480	t1 0.984
t2 1.496	C 28.700	Flange FC-279	AJ 11.000	AK 12.500
BD 13.593	BF UNC 5/8"x11	BB 0.248	BC ---	AH 5.250

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Customer:

Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - NEMA Premium

Three-phase induction motor
Frame 286JM - IP55

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