



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 : 03009ST3QIE364TC-W22

List Price : \$13,524

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 : 364/5T
Output : 30 HP
Frequency : 60 Hz
Poles : 8
Full load speed : 880
Slip : 2.22 %
Voltage : 460 V
Rated current : 37.0 A
Locked rotor current : 229 A
Locked rotor current (I_L/I_n) : 6.2
No-load current : 18.0 A
Full load torque : 177 lb.ft
Locked rotor torque : 170 %
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 : 803 lb
Moment of inertia : 23.455 sq.ft.lb
Noise level : 60 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6314 C3	6314 C3	100%	0.80	92.4
Regreasing interval	20000 h	20000 h	75%	0.74	92.4
Grease amount	27 g	27 g	50%	0.63	92.4

Notes:

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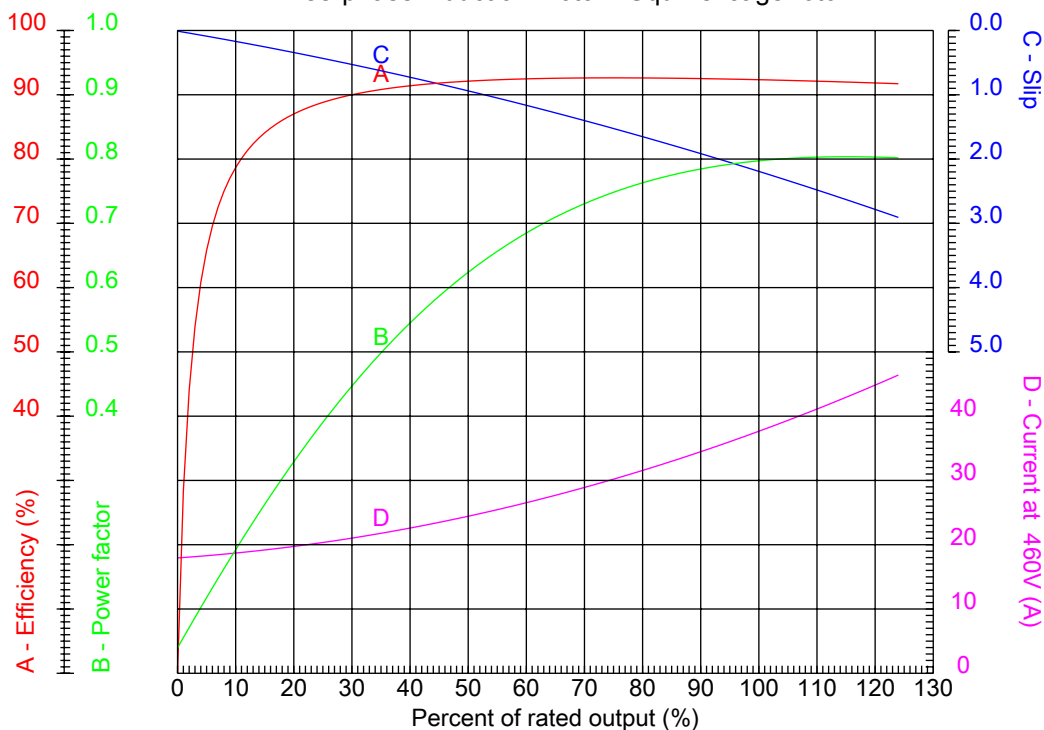
Checked



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



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

Frame : 364/5T	Locked rotor current (I _L /I _n) : 6.2
Output : 30 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.25
Full load speed : 880	Design : B
Voltage : 460 V	Locked rotor torque : 170 %
Rated current : 37.0 A	Breakdown torque : 240 %
Insulation class : F	

Notes:

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Checked

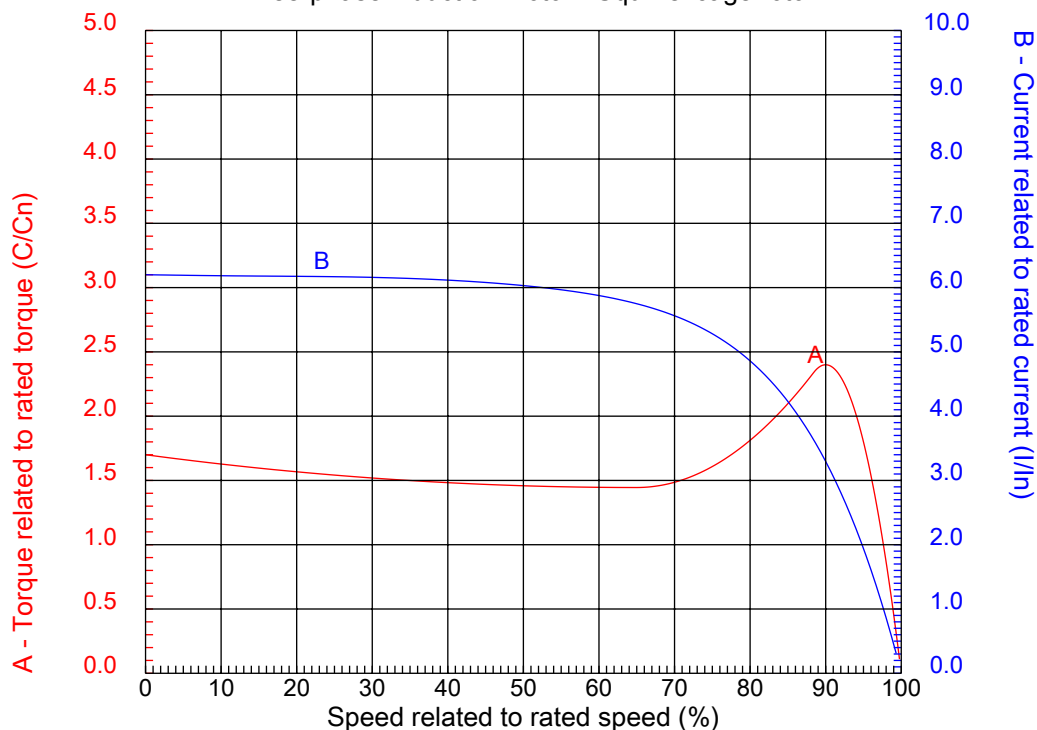


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



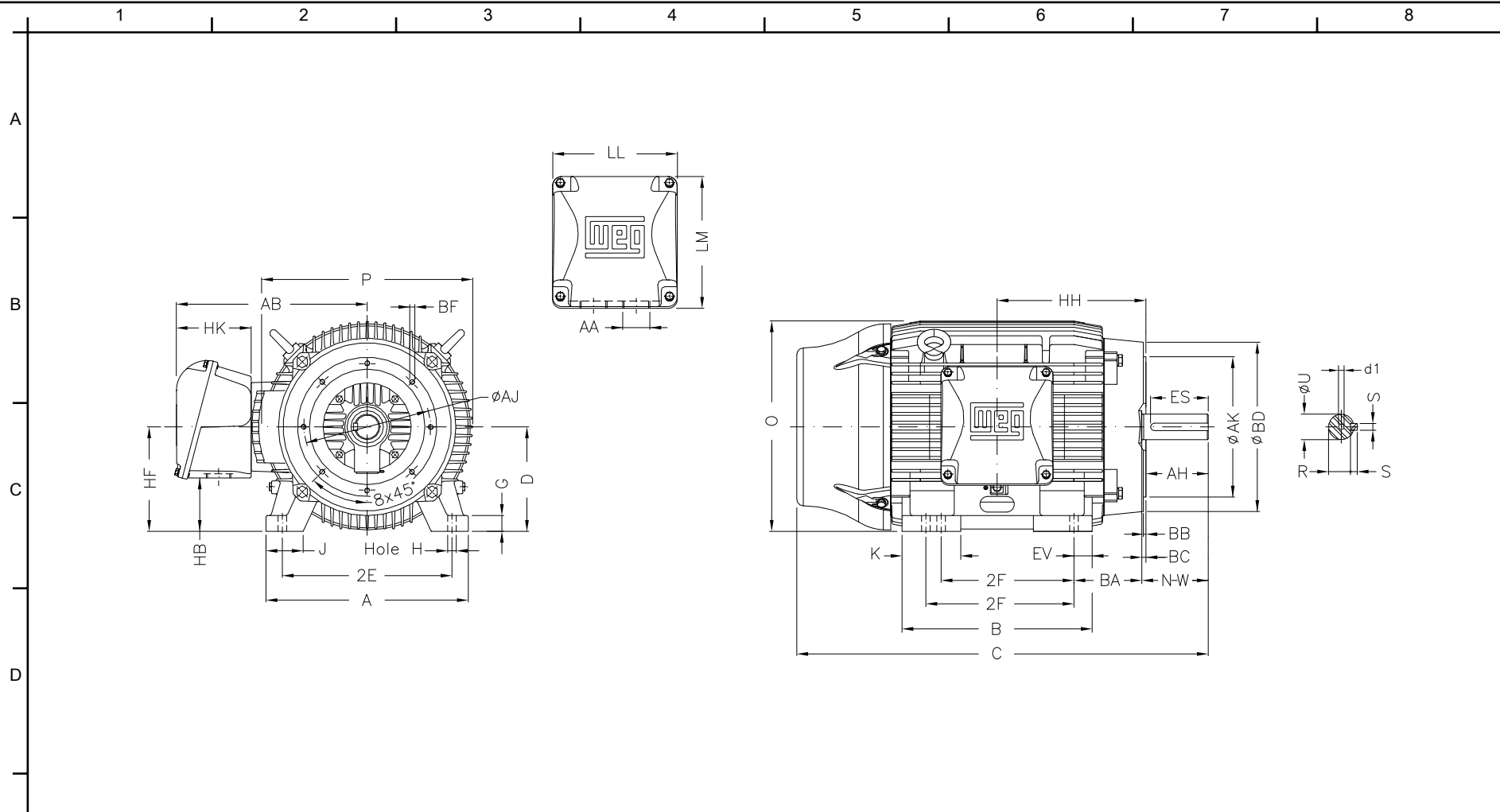
Customer :
Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Frame	: 364/5T	Locked rotor current (I _l /I _n)	: 6.2
Output	: 30 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 880	Design	: B
Voltage	: 460 V	Locked rotor torque	: 170 %
Rated current	: 37.0 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:

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E	2E 14.016	J 3.150	A 17.165	P 17.914	AB 16.023
	2F 11.260/12.244	K 4.921	B 15.760	BA 5.875	U 2.375
	N-W 5.874	ES 4.330	S 0.625	R 2.019	depth 0.625
	D 9.000	G 1.480	HB 2.992	O 17.957	T 3.578
	HD 21.535	HH 12.362	HK 6.023	H 0.660	C 34.251
F	LL 10.590	LM 11.181	AA NPT 3"	d1 DUNC 3/4"-10	d2 DUNC 3/4"-10
	Flange FC-279	AJ 11.000	AK 12.500	BD 15.55	BF UNC 5/8"x11
	BB 0.250	BC 0.250	AH 5.625		

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Customer:

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

Three-phase induction motor Frame 364/5T - IP55	27-DEC-2012	
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