



Dealers Industrial Equipment

No.:

Date: 23-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 : 05012ST3QIE365TC-W22

List Price : \$9,744

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 : 364/5T
 Output : 50 HP
 Frequency : 60 Hz
 Poles : 6
 Full load speed : 1180 rpm
 Slip : 1.67 %
 Voltage : 460 V
 Rated current : 57.4 A
 Locked rotor current : 367 A
 Locked rotor current (I_L/I_n) : 6.4
 No-load current : 20.0 A
 Full load torque : 220 lb.ft
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 18 s (hot)
 Service factor : 1.25
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP55
 Approximate weight : 869 lb
 Moment of inertia : 32.391 sq.ft.lb
 Noise level : 66 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6314 C3	6314 C3	100%	0.86	94.1
Regreasing interval	17000 h	17000 h	75%	0.83	94.1
Grease amount	27 g	27 g	50%	0.74	93.6

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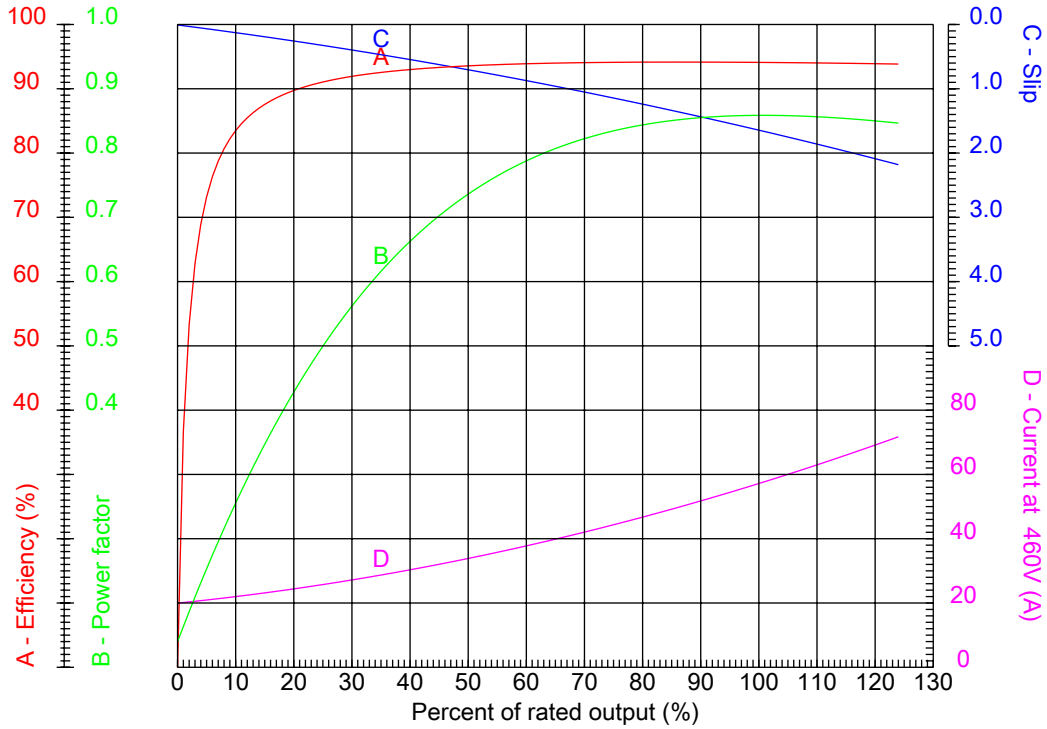
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 364/5T	Locked rotor current (I _L /I _n)	: 6.4
Output	: 50 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1180 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 200 %
Rated current	: 57.4 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:
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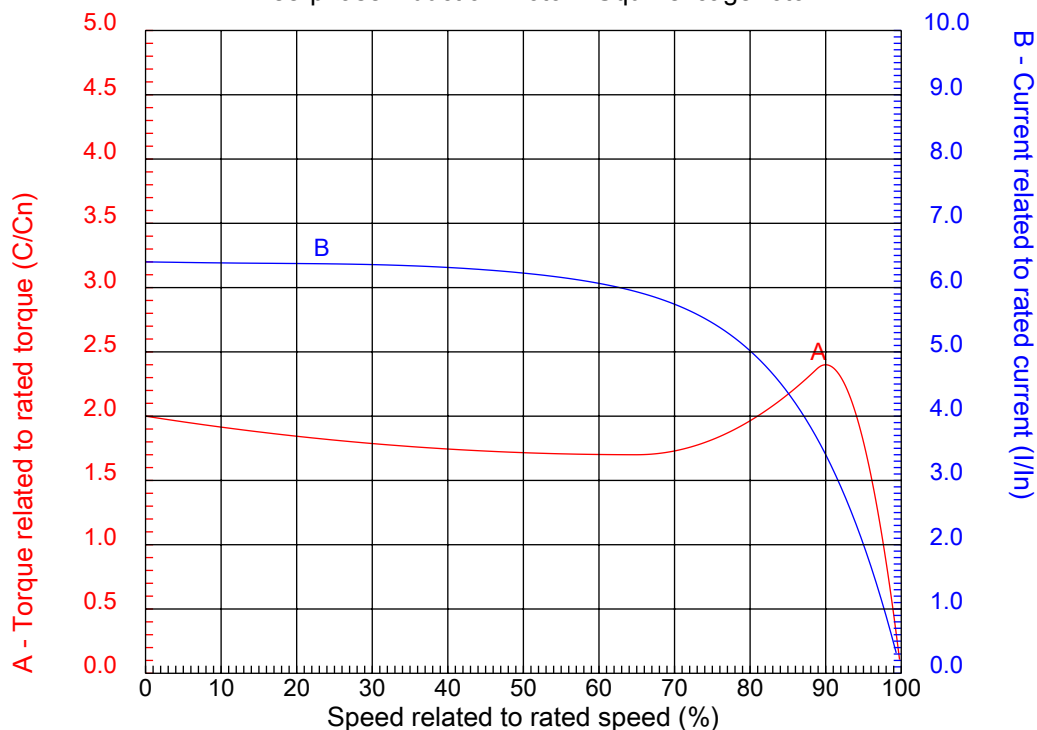
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



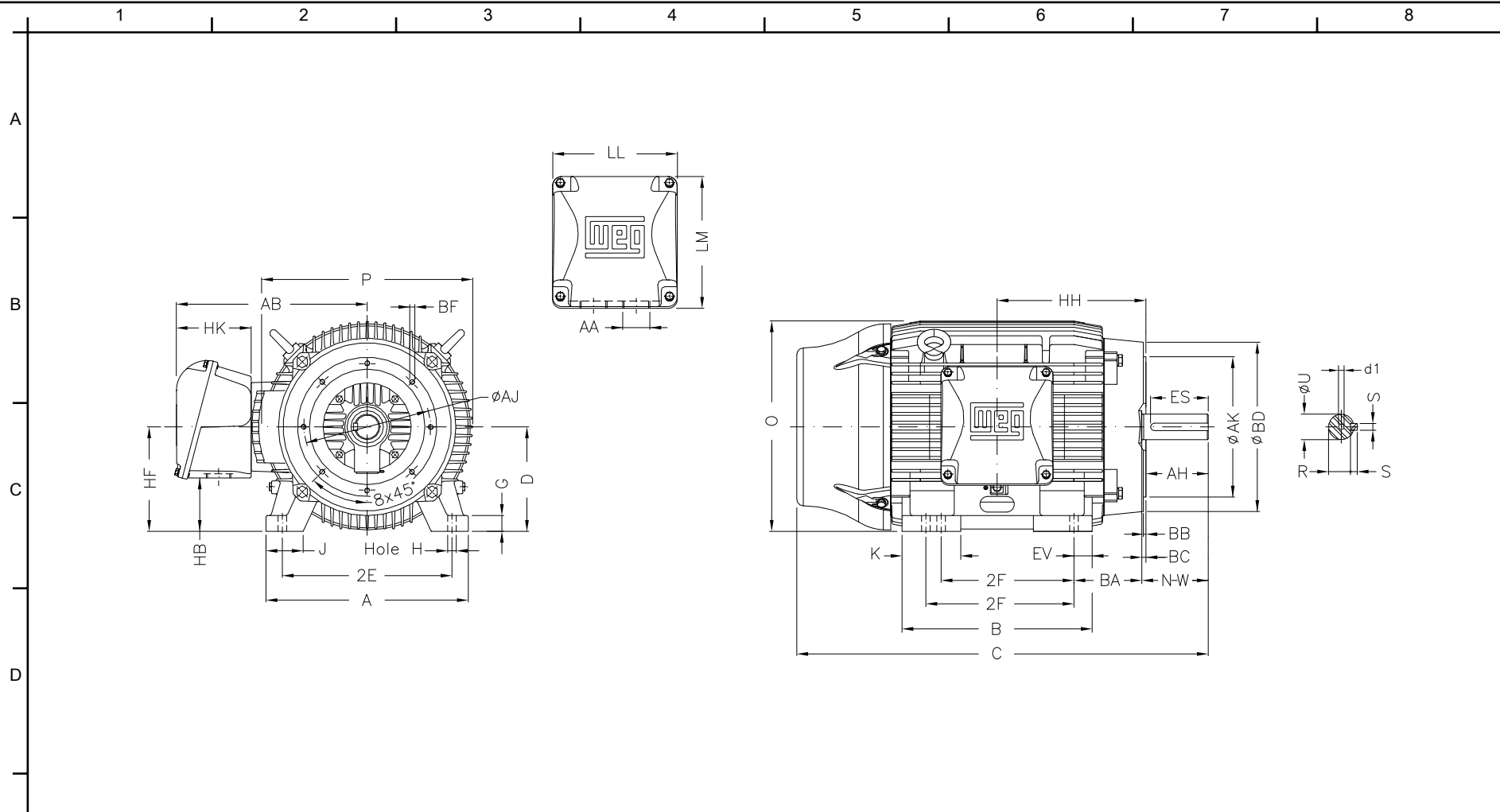
Customer :
Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Frame	: 364/5T	Locked rotor current (I _l /I _n)	: 6.4
Output	: 50 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1180 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 200 %
Rated current	: 57.4 A	Breakdown torque	: 240 %
Insulation class	: F		

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E	2E 14.016	J 3.150	A 17.165	P 17.914	AB 16.016
	2F 11.260/12.244	K 4.138	B 16.220	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 4.251	O 17.957	HH 11.988
	HK 6.024	H 0.660	C 34.251	LL 10.591	LM 11.267
F	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

23-SEP-2016



1 2 3 4 5 6 7 8

A
B
C
D
E
F

RUN



ONLY FOR START



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Customer:		
Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency		
Three-phase induction motor Frame 364/5T - IP55	23-SEP-2016	