



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 : 04012ST3QIE364TC-W22

List Price : \$9,011

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 : 40 HP  
 Frequency : 60 Hz  
 Poles : 6  
 Full load speed : 1185 rpm  
 Slip : 1.25 %  
 Voltage : 460 V  
 Rated current : 46.5 A  
 Locked rotor current : 298 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.4  
 No-load current : 17.0 A  
 Full load torque : 175 lb.ft  
 Locked rotor torque : 200 %  
 Breakdown torque : 240 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 21 s (hot)  
 Service factor : 1.25  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP55  
 Approximate weight : 833 lb  
 Moment of inertia : 29.040 sq.ft.lb  
 Noise level : 66 dB(A)

	D.E.	N.D.E.
Bearings	6314 C3	6314 C3
Regreasing interval	17000 h	17000 h
Grease amount	27 g	27 g

Load	Power factor	Efficiency (%)
100%	0.86	94.1
75%	0.82	93.6
50%	0.73	93.6

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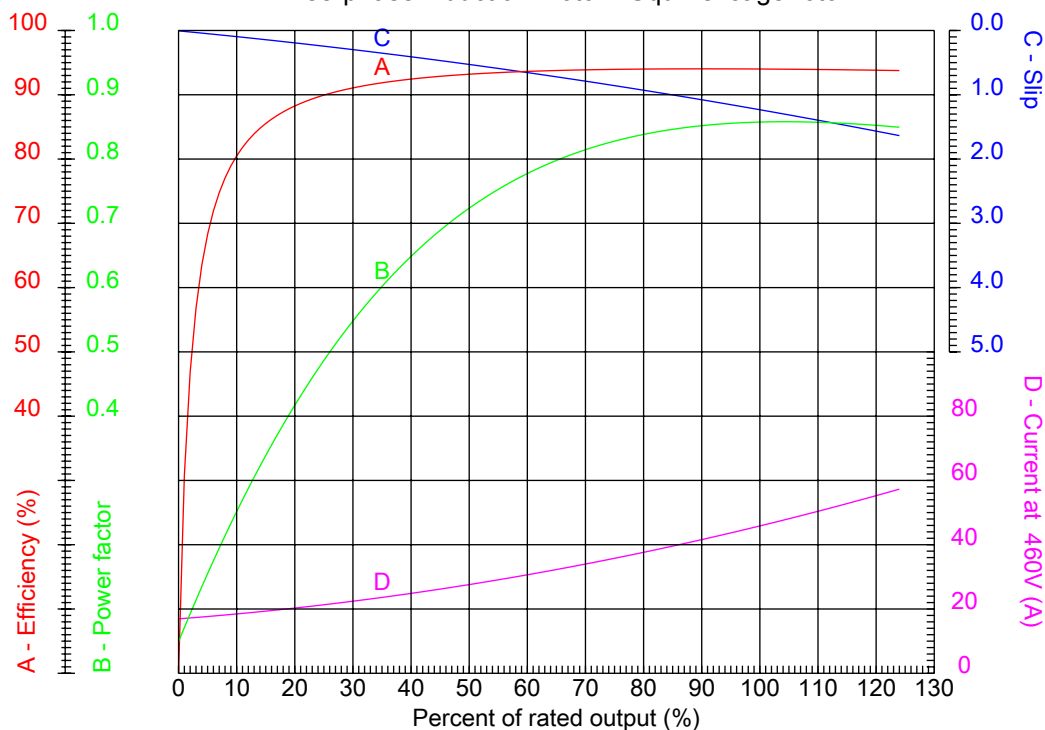
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

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 <sub>l</sub> /I <sub>n</sub> )	: 6.4
Output	: 40 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1185 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 200 %
Rated current	: 46.5 A	Breakdown torque	: 240 %
Insulation class	: F		

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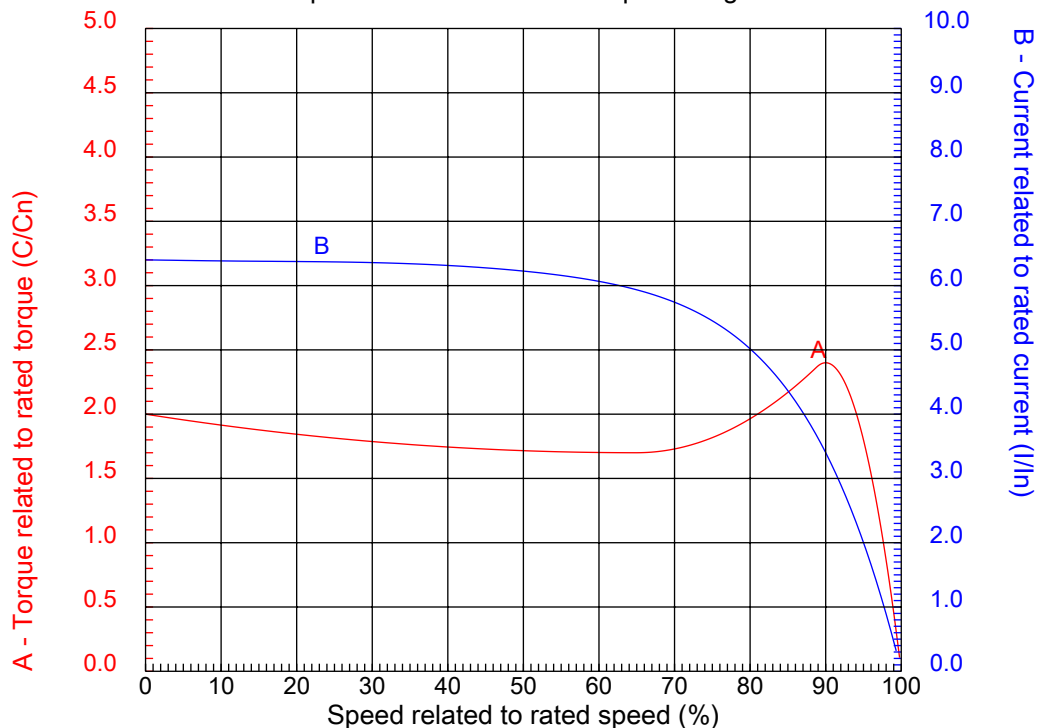
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



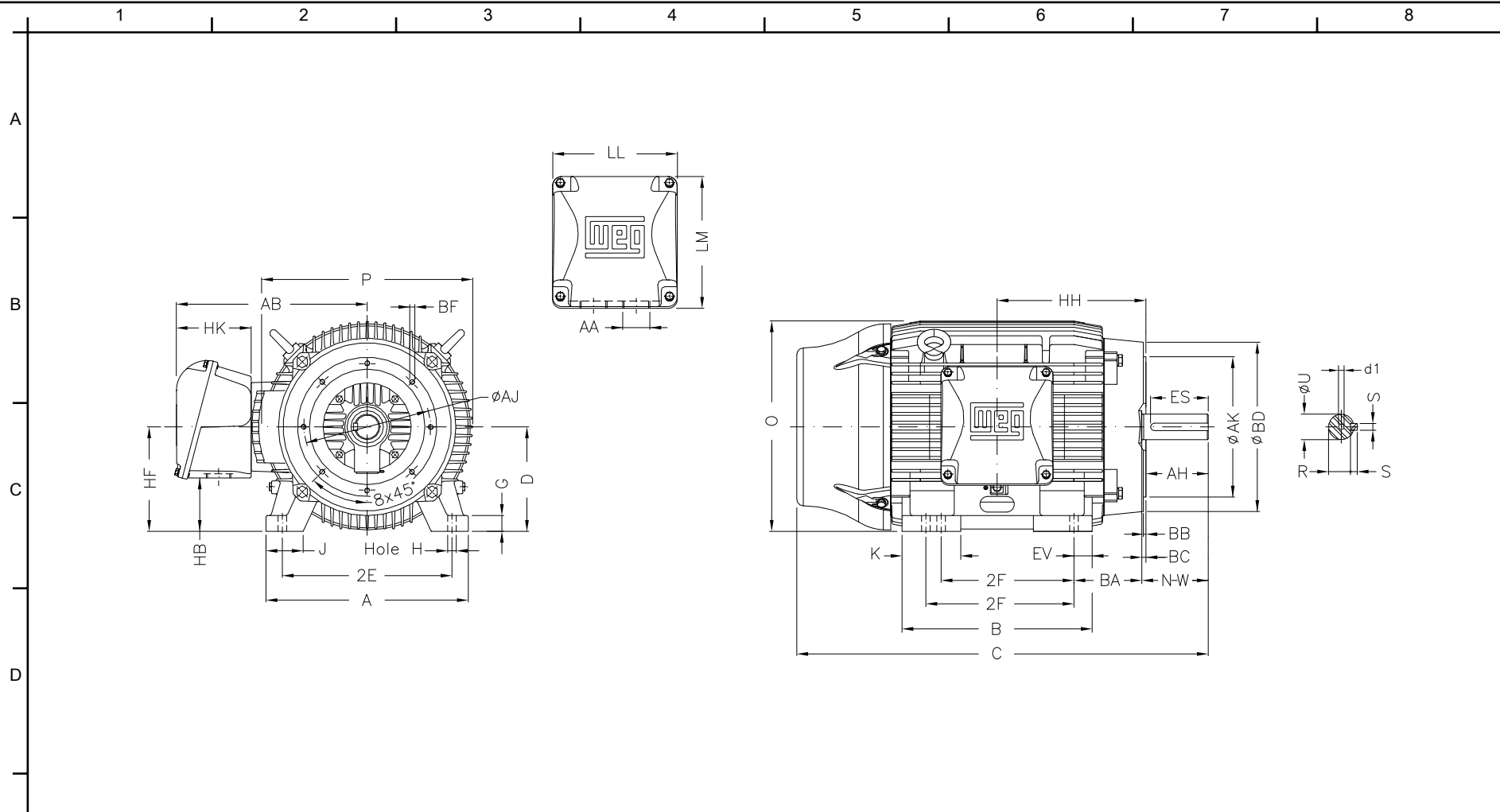
Customer :  
Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Frame	: 364/5T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.4
Output	: 40 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1185 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 200 %
Rated current	: 46.5 A	Breakdown torque	: 240 %
Insulation class	: F		

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2E	J	A	P	AB
14.016	3.150	17.165	17.914	16.016
2F	K	B	BA	U
11.260/12.244	4.138	16.220	5.875	2.375
N-W	ES	S	R	depth
5.874	4.330	0.625	2.019	0.625
D	G	HB	O	HH
9.000	1.480	4.251	17.957	11.988
HK	H	C	LL	LM
6.024	0.660	34.251	10.591	11.267
AA	d1	d2	Flange	AJ
NPT 3"	DUNC 3/4"-10	DUNC 3/4"-10	FC-279	11.000
AK	BD	BF	BB	BC
12.500	15.55	UNC 5/8"x11	0.250	0.250
AH				
5.625				

Performed by:


Checked:

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	