



No.:

Date: 03-MAR-2020

Customer :

## TECHNICAL PROPOSAL

## Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : -

List Price : \$-

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 : 324/6T  
Output : 40 HP  
Frequency : 60 Hz  
Poles : 4  
Full load speed : 1770 rpm  
Slip : 1.67 %  
Voltage : 460 V  
Rated current : 47.1 A  
Locked rotor current : 287 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.1  
No-load current : 16.0 A  
Full load torque : 117 lb.ft  
Locked rotor torque : 220 %  
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 m  
Degree of Protection : IP55  
Approximate weight : 580 lb  
Moment of inertia : 9.1624 sq.ft.lb  
Noise level : 66 dB(A)

	D.E.	N.D.E.
Bearings	6312 C3	6212 C3
Regreasing interval	20000 h	20000 h
Grease amount	21 g	13 g

Load	Power factor	Efficiency (%)
100%	0.85	94.1
75%	0.80	94.1
50%	0.72	93.6

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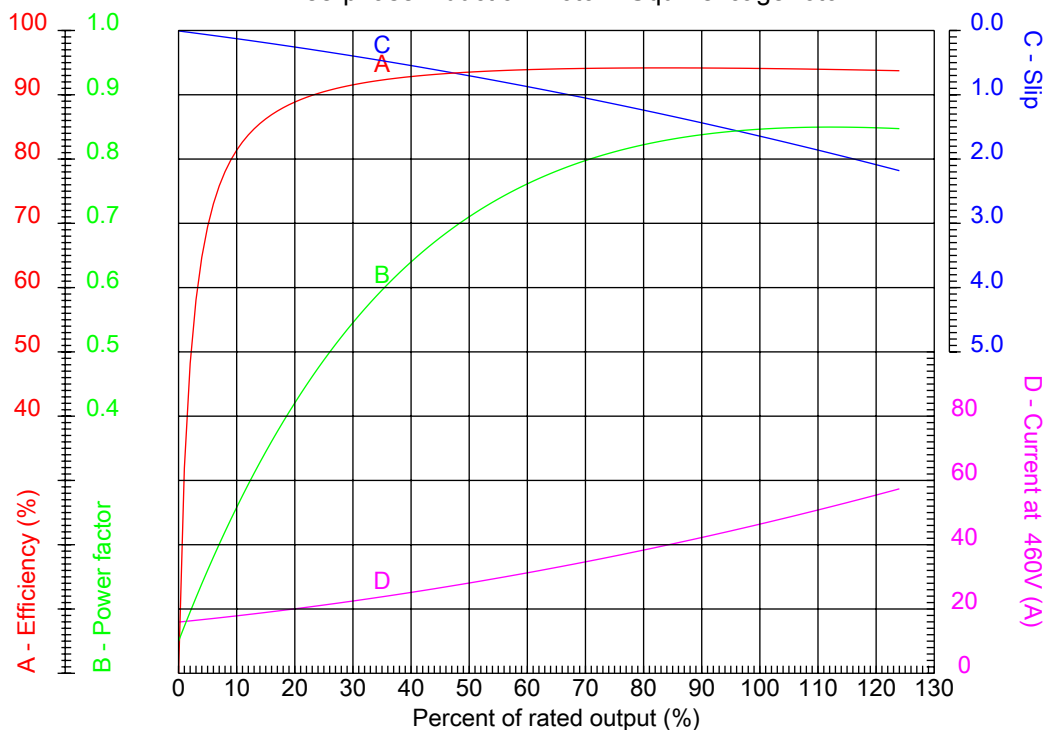


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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 324/6T	Locked rotor current (I <sub>L</sub> /I <sub>n</sub> )	: 6.1
Output	: 40 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1770 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 220 %
Rated current	: 47.1 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:

Performed by

Checked

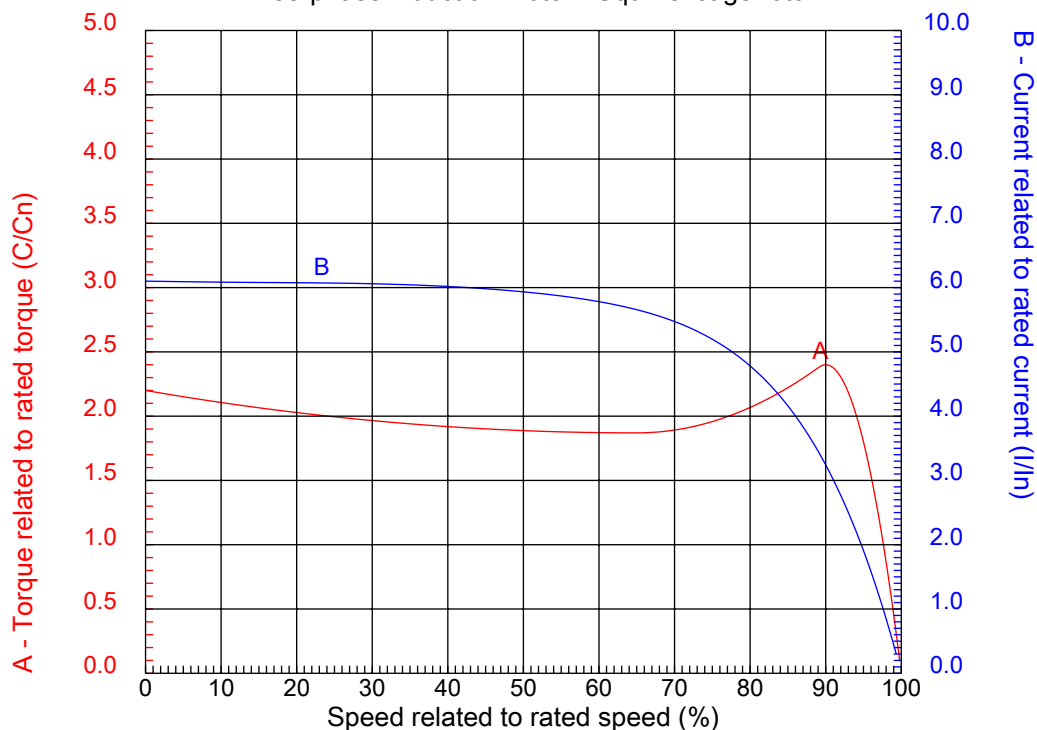


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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



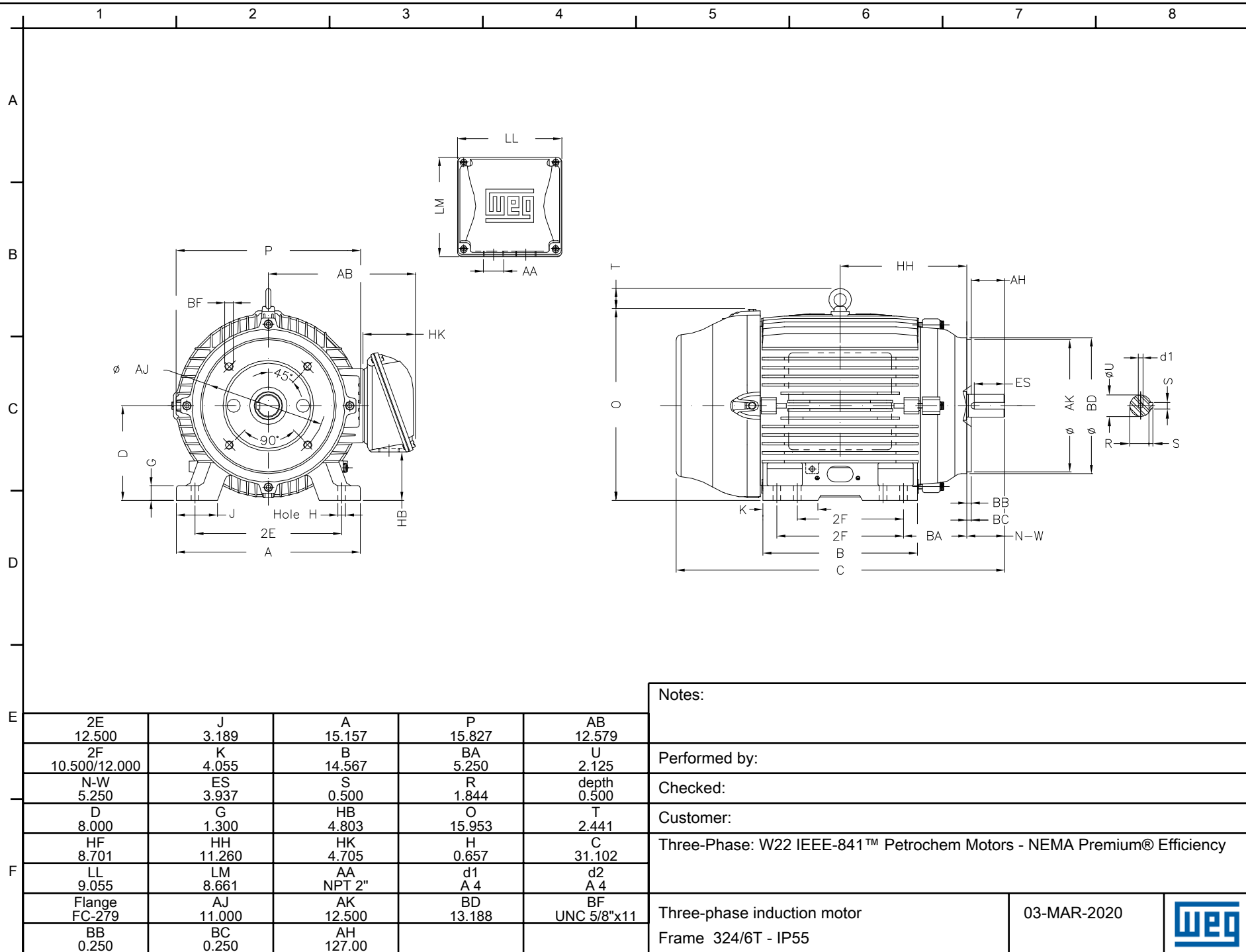
Customer :  
Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Frame	: 324/6T	Locked rotor current (I <sub>L</sub> /I <sub>n</sub> )	: 6.1
Output	: 40 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1770 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 220 %
Rated current	: 47.1 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:

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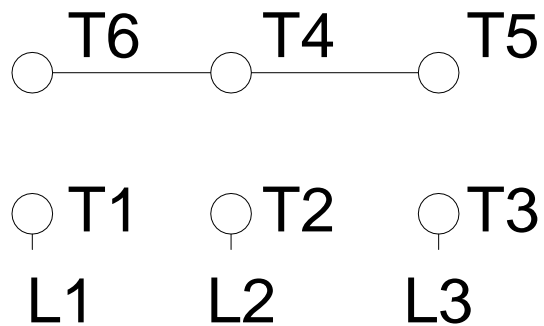
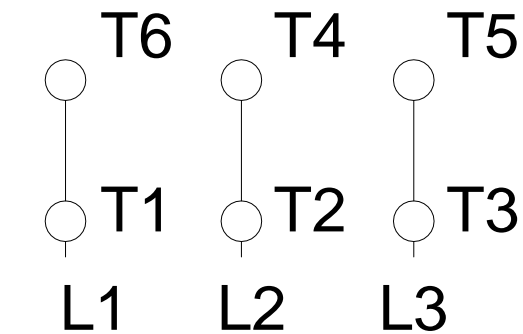
1 2 3 4 5 6 7 8

A

RUN

ONLY FOR START

B



C

D

E

F

Notes:

Performed by:

Checked:

Customer:

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

Three-phase induction motor  
Frame 324/6T - IP55

03-MAR-2020

