No.:

Date: 01-MAY-2020

DATA SHEET
Three-phase induction motor - Squirrel cage rotor

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

Frame	:	284/6T
Output	:	25 HP
Frequency	:	60 Hz
Poles	:	4
Full load speed	:	1765 rpm
Slip	:	1.94 %
Voltage	:	460 V
Rated current	:	29.5 A
Locked rotor current	:	183 A
Locked rotor current (Il/In)	:	6.2
No-load current	:	10.5 A
Full load torque	:	73.4 lb.ft
Locked rotor torque	:	240 %
Breakdown torque	:	270 %
Design	:	B
Insulation class	:	F
Temperature rise	:	80 K
Locked rotor time	:	24 s (hot)
Service factor	:	1.25
Duty cycle	:	S1
Ambient temperature	:	-20°C - +40°C
Altitude	:	1000 m
Degree of Protection	:	IP55
Approximate weight	:	416 lb
Moment of inertia	:	5.1084 sq.ft.lb
Noise level	:	63 dB(A)

	D.E.	N.D.E.
Bearings	6311 C3	6211 C3
Regreasing interval	20000 h	20000 h
Grease amount	18 g	11 g

Load	Power factor	Efficiency (%)
100%	0.84	93.6
75%	0.80	93.0
50%	0.70	92.4

Notes:

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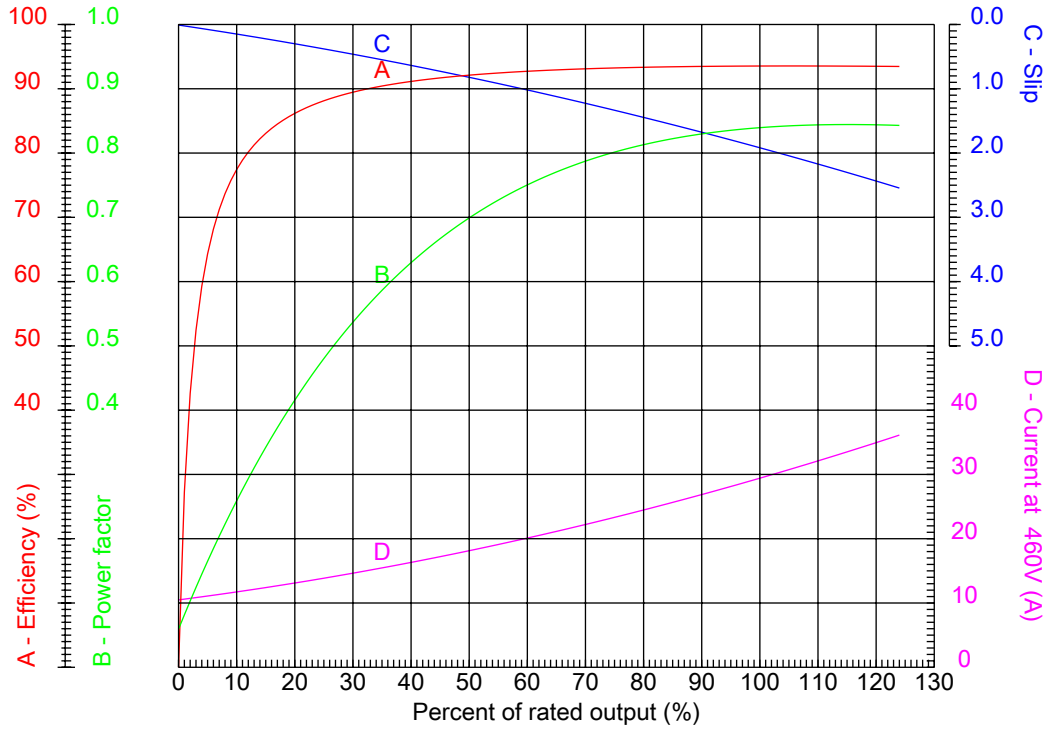
PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 284/6T	Locked rotor current (Il/In)	: 6.2
Output	: 25 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1765 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 240 %
Rated current	: 29.5 A	Breakdown torque	: 270 %
Insulation class	: F		

Notes:

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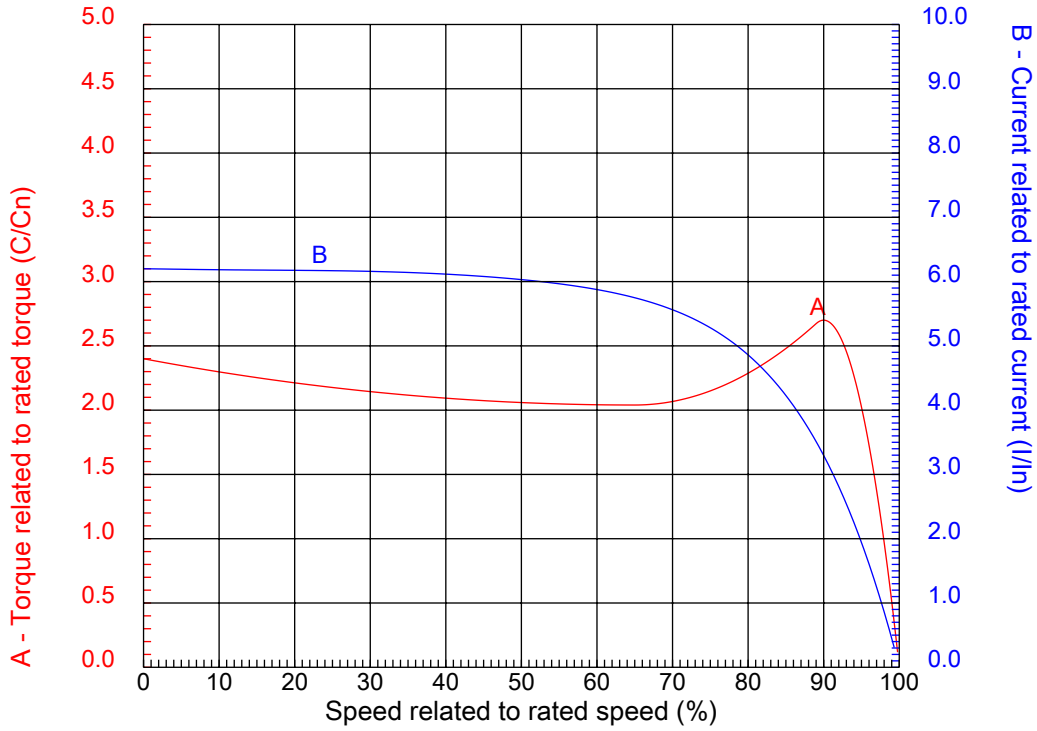
CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor

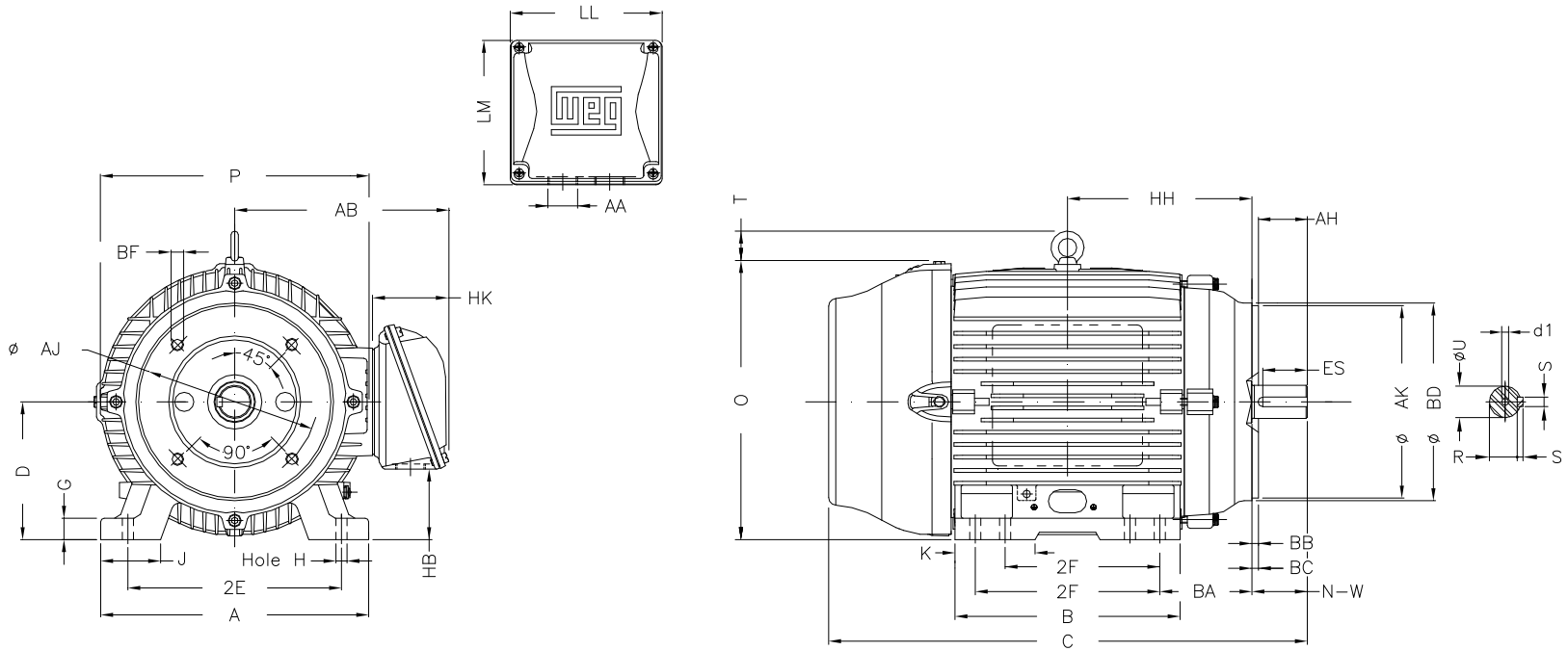


Customer	:
Product line	: Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Frame	: 284/6T	Locked rotor current (Il/In)	: 6.2
Output	: 25 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1765 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 240 %
Rated current	: 29.5 A	Breakdown torque	: 270 %
Insulation class	: F		

Notes:

Performed by	Checked



2E 11.000	J 2.244	A 12.953	P 14.173	AB 11.083
2F 9.500/11.000	B 13.071	BA 4.750	U 1.875	N-W 4.622
ES 3.150	S 0.500	R 1.594	depth 0.500	D 7.000
G 0.669	HB 3.543	O 13.850	T 2.304	HF 7.008
HH 10.256	HK 3.976	H 0.531	C 27.913	LL 7.815
LM 7.480	AA NPT 1 1/2"	d1 A 4	d2 A 4	Flange FC-228
AJ 9.000	AK 10.500	BD 11.03	BF UNC 1/2"x13	BB 0.250
BC 0.250	AH 111.13			

Notes:

Performed by:

Checked:

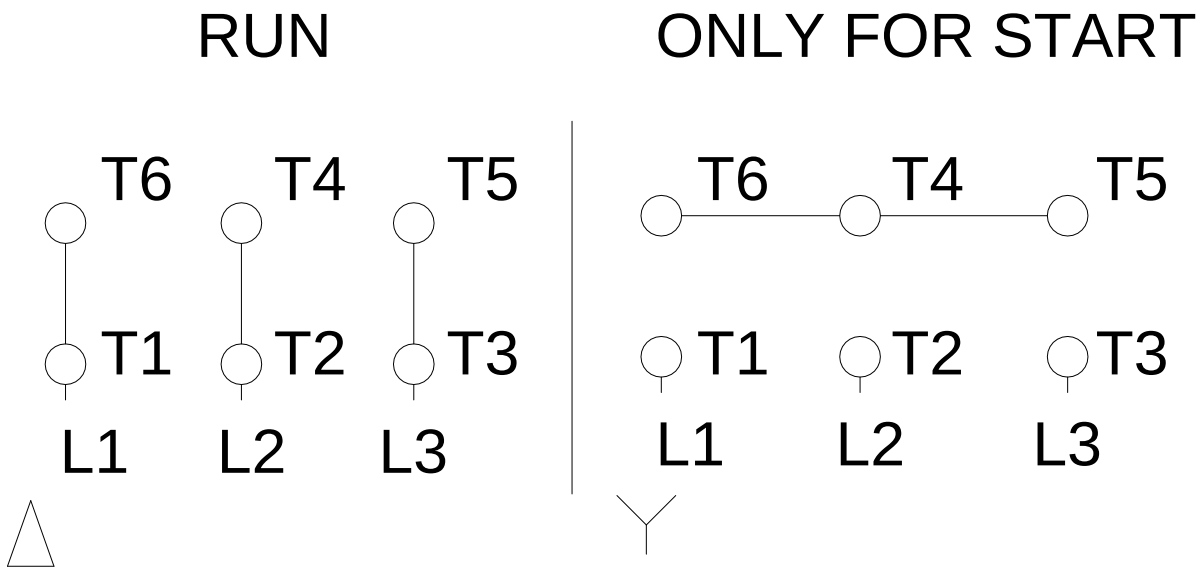
Customer:

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

Three-phase induction motor

Frame 284/6T - IP55

01-MAY-2020



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Customer:		
Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency		
Three-phase induction motor Frame 284/6T - IP55	01-MAY-2020	