



No.:

Date: 13-NOV-2020

Customer :

TECHNICAL PROPOSAL  
Three-phase induction motor - Squirrel cage rotor

Product line : W01 - TEFC - 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 : W01 - TEFC - NEMA Premium Efficiency

Frame : 254/6T  
Output : 7.5 HP  
Frequency : 60 Hz  
Poles : 6  
Full load speed : 1175 rpm  
Slip : 2.08 %  
Voltage : 208-230/460 V  
Rated current : 22.1-20.0/9.98 A  
Locked rotor current : 108/53.9 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 5.4  
No-load current : 10.1/5.03 A  
Full load torque : 33.1 lb.ft  
Locked rotor torque : 200 %  
Breakdown torque : 230 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 42 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000 m  
Degree of Protection : IP55  
Approximate weight : 204 lb  
Moment of inertia : 2.3374 sq.ft.lb  
Noise level : 59 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6309 Z-C3	6208 Z-C3	100%	0.76	91.0
Regreasing interval	20000 h	20000 h	75%	0.70	89.5
Grease amount	13 g	8 g	50%	0.58	89.5

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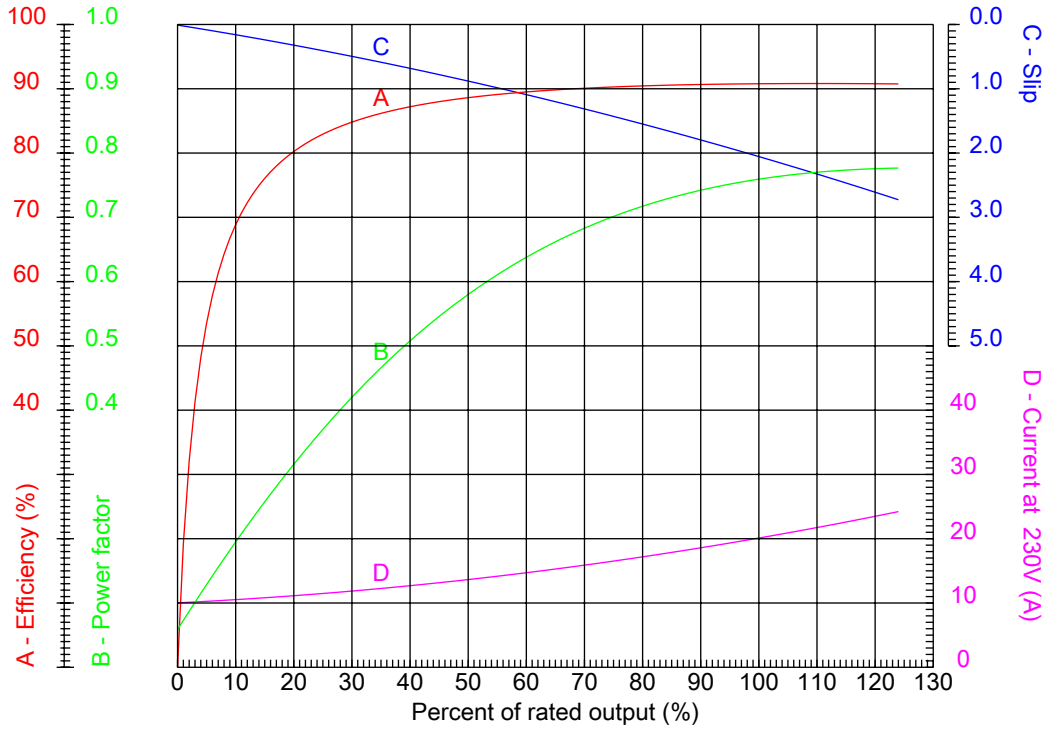


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### PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : W01 - TEFC - NEMA Premium Efficiency

Frame	: 254/6T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 5.4
Output	: 7.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1175 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 200 %
Rated current	: 22.1-20.0/9.98 A	Breakdown torque	: 230 %
Insulation class	: F		

Notes:

Performed by

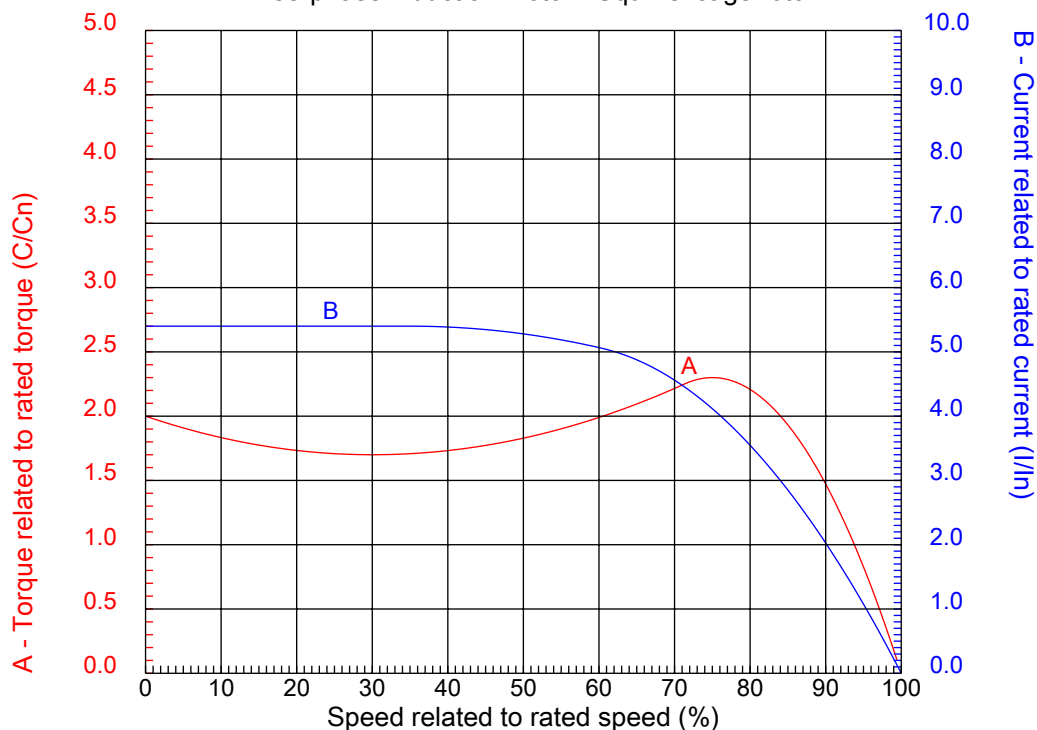
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### CHARACTERISTIC CURVES RELATED TO SPEED Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : W01 - TEFC - NEMA Premium Efficiency

Frame	: 254/6T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 5.4
Output	: 7.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1175 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 200 %
Rated current	: 22.1-20.0/9.98 A	Breakdown torque	: 230 %
Insulation class	: F		

Notes:

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1 2 3 4 5 6 7 8

A

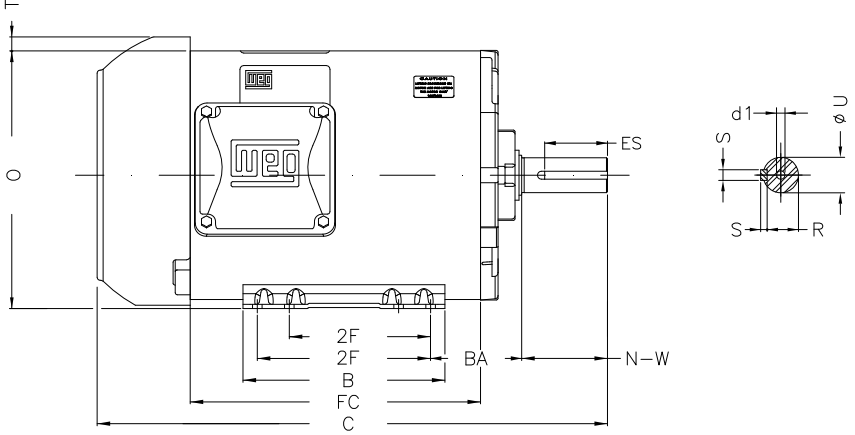
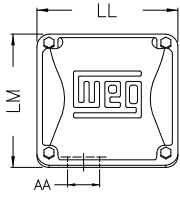
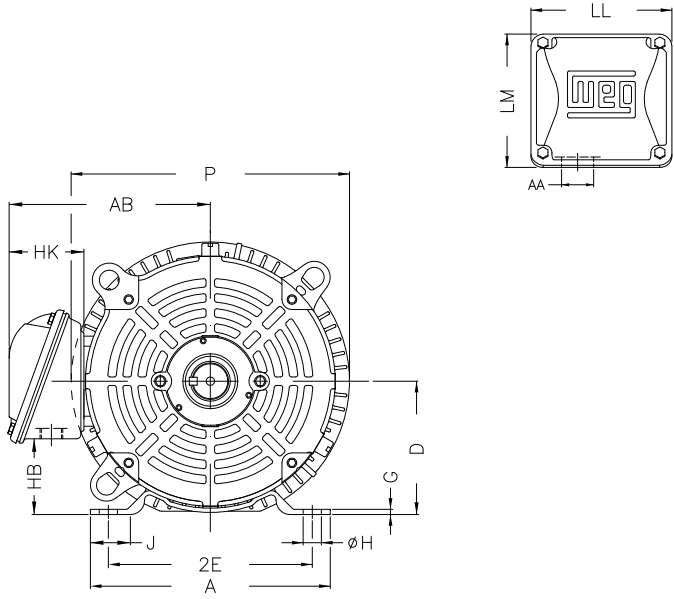
B

C

D

E

F



Notes:

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Checked:

Customer:

W01 - TEFC - NEMA Premium Efficiency

Three-phase induction motor  
Frame 254/6T - IP55

13-NOV-2020



P	AB	J	2E	A
13.180	9.449	1.693	10.000	11.417
H	G	HB	HK	T
0.530	0.187	3.622	3.642	0.830
O	FC	2F	B	C
12.010	12.992	8.252/10.000	11.417	22.559
BA	N-W	ES	d1	S
4.250	4.000	2.756	A4	0.375
U	AA	depth	R	LL
1.625	1.732"	0.375	1.416	6.299
LM	BB	D	CH	
6.024	0.830	6.250	1.929	