### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer		:							
Product line		: NEN Phas		n Efficiency	/ Three-	Product code :		2812067 01518ET3HR254TC-S	
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor toro Breakdown torqu Insulation class Service factor Moment of inertia	ie	: 4 : 60 H : 575 : 14.6 : 94.6 : 6.5 : 6.92 : 177 : 1.67 : 44.5 : 250 : 300 : F	HP (11 kW) Hz V 6 A 6 A ((Code G) 2 A 0 rpm 7 % 6 ft.lb %		Tempe Duty cy Ambier Altitude Protect Cooling Mounti Rotatic Noise I	nt temperature e ion degree g method ng n <sup>1</sup>		: 34s (cold) 19s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 68.0 dB(A) : Direct On Line : 224 lb	
Output Efficiency (%)	25% 90.8	50% 91.0	75% 92.4	100% 92.4	Foundati		. 1	528 lb	
Power Factor	0.39	0.64	0.76	0.82		npression		752 lb	
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type		: : : :	Drive end : 6309 Z C3 : V'Ring : 20000 h : 13 g : Mob			Non drive end 6208 Z C3 Without Bearing Seal 20000 h 8 g Mobil Polyrex EM			
<b>.</b>									

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



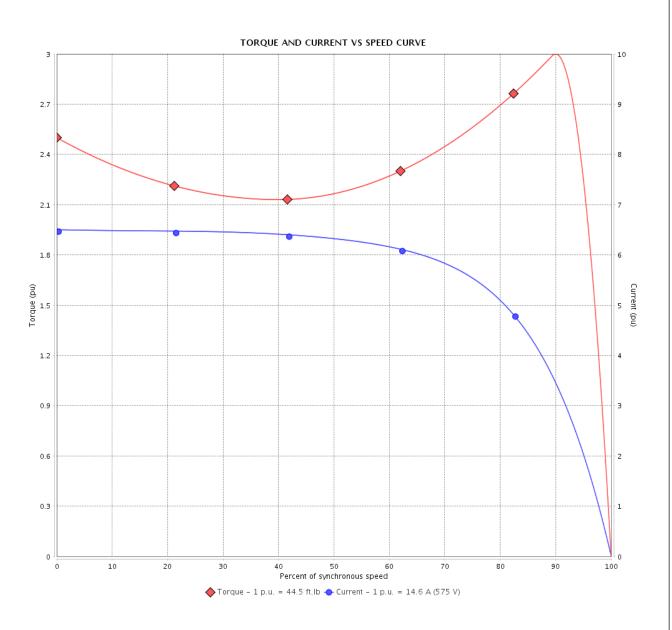
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12812067

Catalog #: 01518ET3HR254TC-S



Performance : 575 V 60 Hz 4P Rated current : 14.6 A Moment of inertia (J) : 2.15 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 44.5 ft.lb : F : 250 % Locked rotor torque Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 34s (cold) 19s (hot)

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# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



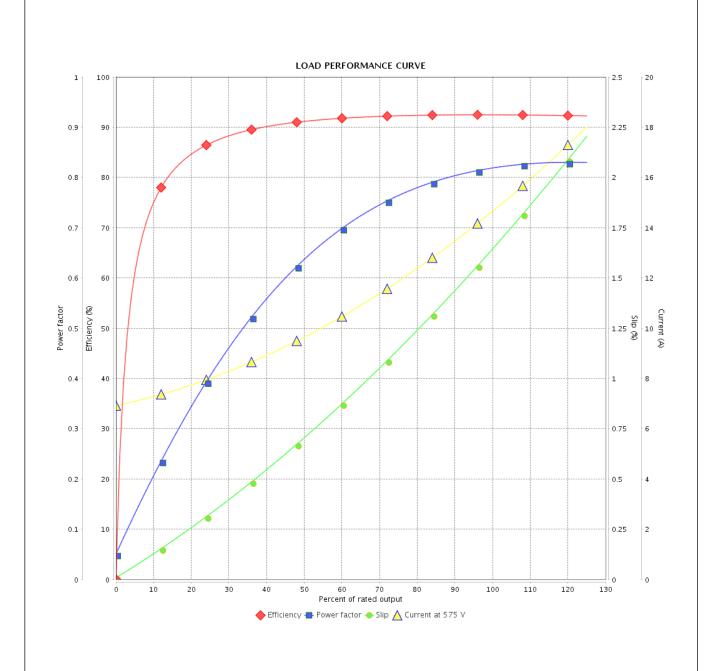
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12812067

Phase

Catalog #: 01518ET3HR254TC-S

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Performance	: 575 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.6 A : 6.5 : 44.5 ft.lb : 250 % : 300 % : 1770 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 2.15 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
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Date

# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



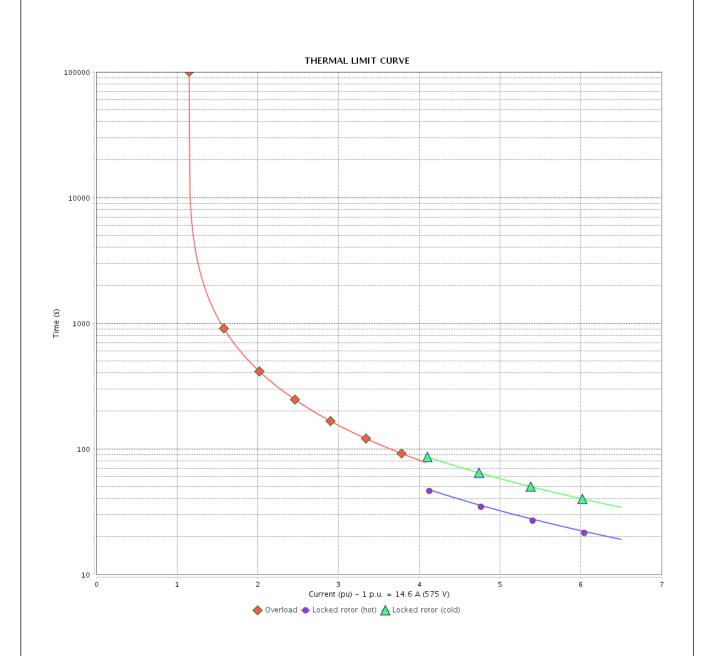
Customer	:				
Product line	: NEMA Premium Efficie	ncy Three-	Product code :	12812067	
	Phase	•			205470.0
			Catalog # :	01518ET3HF	R2541C-S
Performance	: 575 V 60 Hz 4P				
Rated current	: 14.6 A	Moment of	of inertia (J)	: 2.15 sq.ft.lb	
LRC	: 6.5 : 44.5 ft.lb	Duty cycl Insulation	e	: Cont.(S1) : F	
Rated torque Locked rotor torque	: 44.5 m.ib : 250 %	Service fa		: F : 1.15	
Breakdown torque	: 300 %	Temperat		: 80 K	
Rated speed	: 1770 rpm	Design		: B	
Heating constant					
Cooling constant	<u> </u>		T 5 / .		
Rev.	Changes Summary		Performed	Checked	Date
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer



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## VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



Revision

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Customer :

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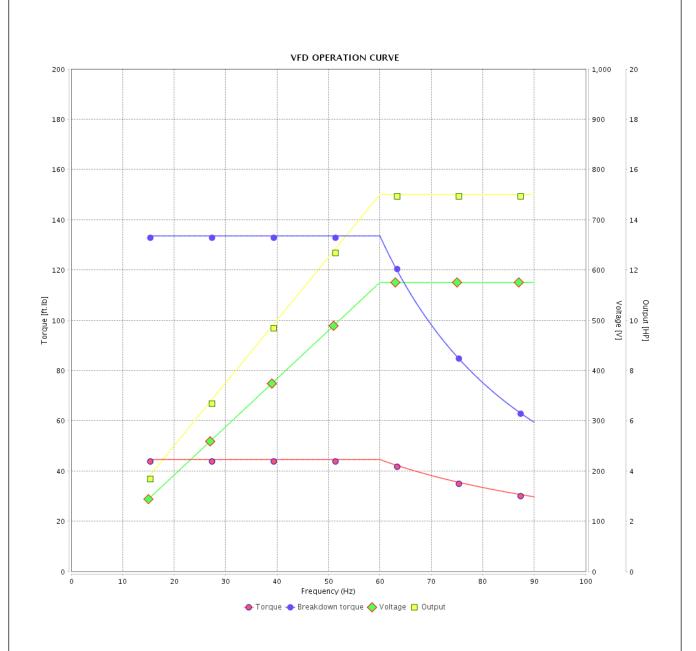
Date

13/04/2022

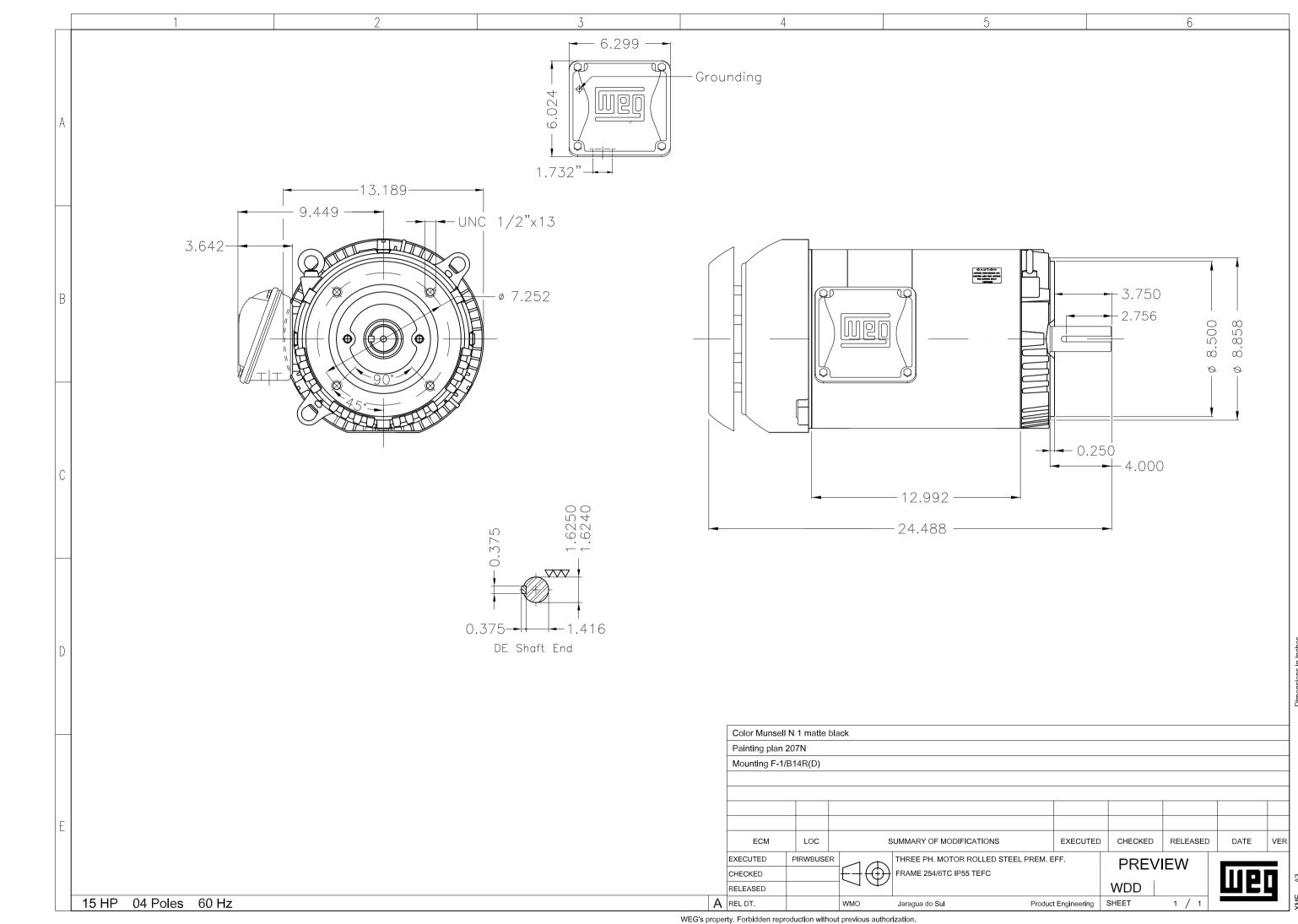
Product line : NEMA Premium Efficiency Three- Product code : 12812067

Phase

Catalog #: 01518ET3HR254TC-S



Performance : 575 V 60 Hz 4P : 14.6 A Rated current Moment of inertia (J) : 2.15 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 : 44.5 ft.lb Insulation class : F Rated torque Locked rotor torque : 250 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by





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FOR SAFE AREA

(**UL)**US LISTED 3PT9

Class I, DIv.2, Gr. A,B,C,D - T3 Div 2 Inverter Duty (SF1.00) **&** Energy Verified For 60Hz: Class I, Zone 2,

CT 2:1/VT 1000:1

MODEL 01518ET3HR254TC-S

15JUL2021

N01.TE0IC0X0N

12812067

Hz 60 S/N

254/6TC

CONT

T2-WHT r3-ORG T1-BLU T4-YEL

2000Dh

For safe area-inverter duty motor For use on VPWM 1000:1 VT, 4:1 CT

NOM. EFF 92.4%

NEMA SPM 3FA 냃 쌆

14.6 1.15 575 16.8

> P55 CODE DES

1000 m.a.s.l

F AT 80K

<del>0</del> NSCL INC. WB

TEFC

MOBIL POLYREX EM

ODE 6208-Z-C3 9

8309-Z-C3

牌

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NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

AVERTISSEMENT: Le moteur doit être mis à la terre WARNING: Motor must be grounded in accordance with local shocks. Disconnect power source before servicing unit. ind national electrical codes to prevent serious electrical

choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine

conformément aux codes électriques locaux et nationaux afin d'éviter tout

