DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14122242 Catalog #: 01536ET3H254TC-S Frame : 254/6TC Locked rotor time : 25s (cold) 14s (hot) Output : 15 HP (11 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 1000 m.a.s.l. : 575 V Altitude Rated current : 13.9 A Protection degree : IP55 L. R. Amperes : 94.7 A Cooling method : IC411 - TEFC LRC : 6.8x(Code G) Mounting : W-6 No load current : 5.20 A Rotation¹ : Both (CW and CCW) Rated speed : 3525 rpm Noise level² : 75.0 dB(A) Starting method Slip : 2.08 % : Direct On Line Rated torque : 22.3 ft.lb Approx. weight³ : 192 lb Locked rotor torque : 200 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.8718 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 91.0 : 225 lb Efficiency (%) 89.2 89.5 91.0 Max. traction Power Factor 0.83 0.87 : 417 lb 0.47 0.73 Max. compression Non drive end Drive end Bearing type 6309 Z C3 6208 Z C3 Sealing V'Ring V'Ring Lubrication interval 7898 h 10211 h Lubricant amount 13 g 8 g Lubricant type Mobil Polyrex EM

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



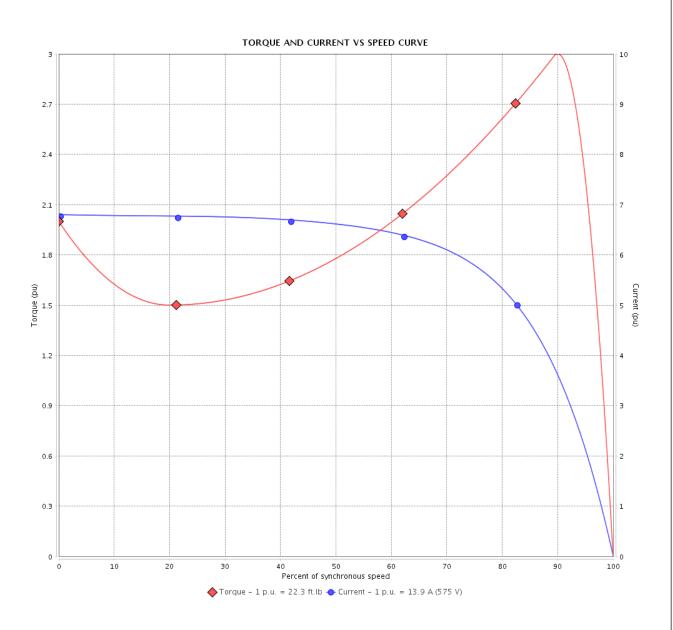
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14122242

Catalog #: 01536ET3H254TC-S



nertia (J) : 0.8718 sq.ft.lb : Cont.(S1)
ass : F or : 1.15 e rise : 80 K : B

Locked rotor time : 25s (cold) 14s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

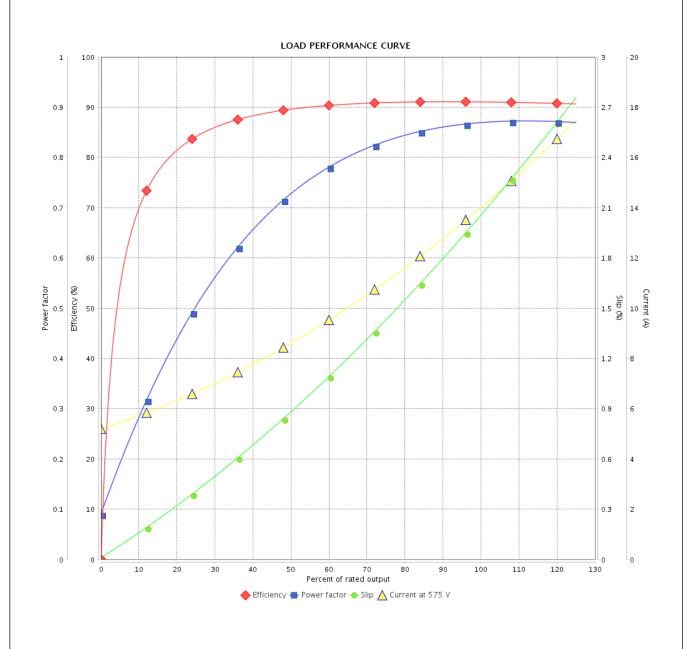
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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14122242

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Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.9 A : 6.8 : 22.3 ft.lb : 200 % : 300 % : 3525 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.8718 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



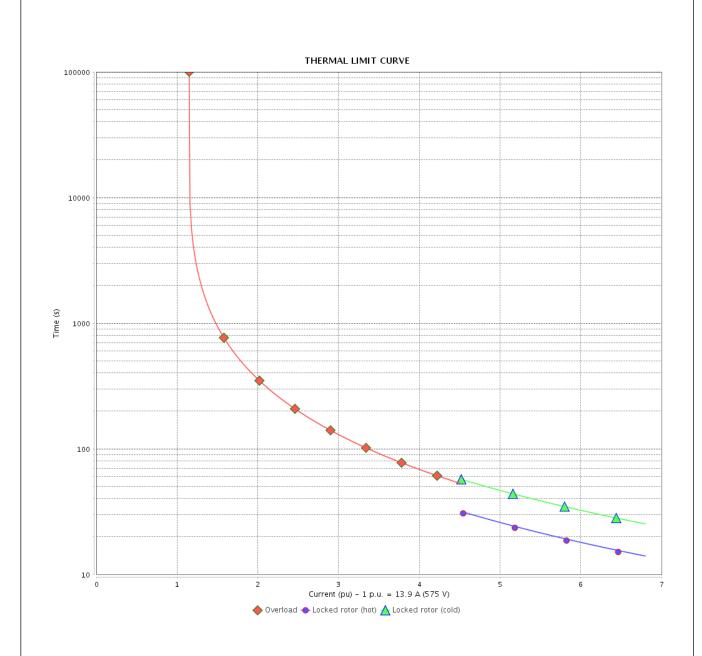
Customer	:			_	
Product line	: NEMA Premium Efficie	ency Three-	Product code :	14122242	
	Phase				05.4TO 0
			Catalog # :	01536ET3H2	254 I C-S
Performance	: 575 V 60 Hz 2P				
Rated current	: 13.9 A	Moment of	of inertia (J)	: 0.8718 sq.ft.l	b
LRC Rated torque	: 6.8 : 22.3 ft.lb	Duty cycle Insulation	e v class	: Cont.(S1) : F	
Locked rotor torque	: 200 %	Service fa	actor	: 1.15	
Breakdown torque	: 300 %	Temperat	ure rise	: 80 K	
Rated speed	: 3525 rpm	Design		: B	
Heating constant					
Cooling constant	Changes Comme		Dorform	Charles	Data
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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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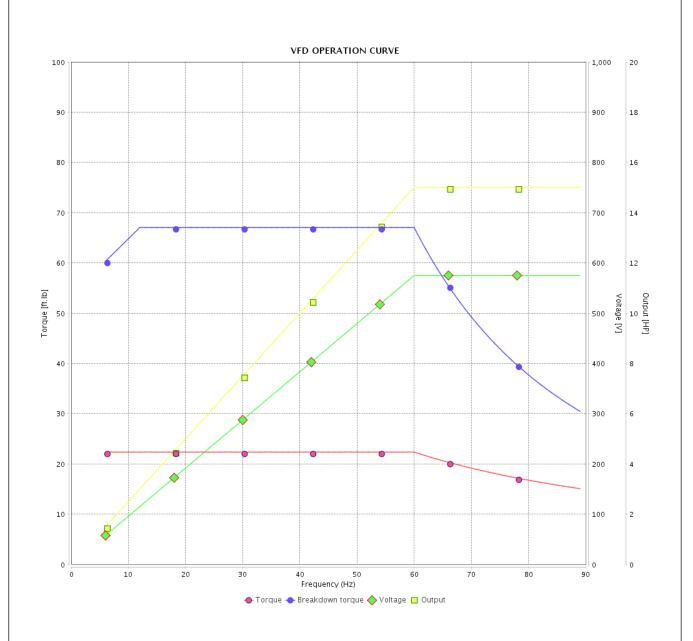
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Product line : NEMA Premium Efficiency Three- Product code :

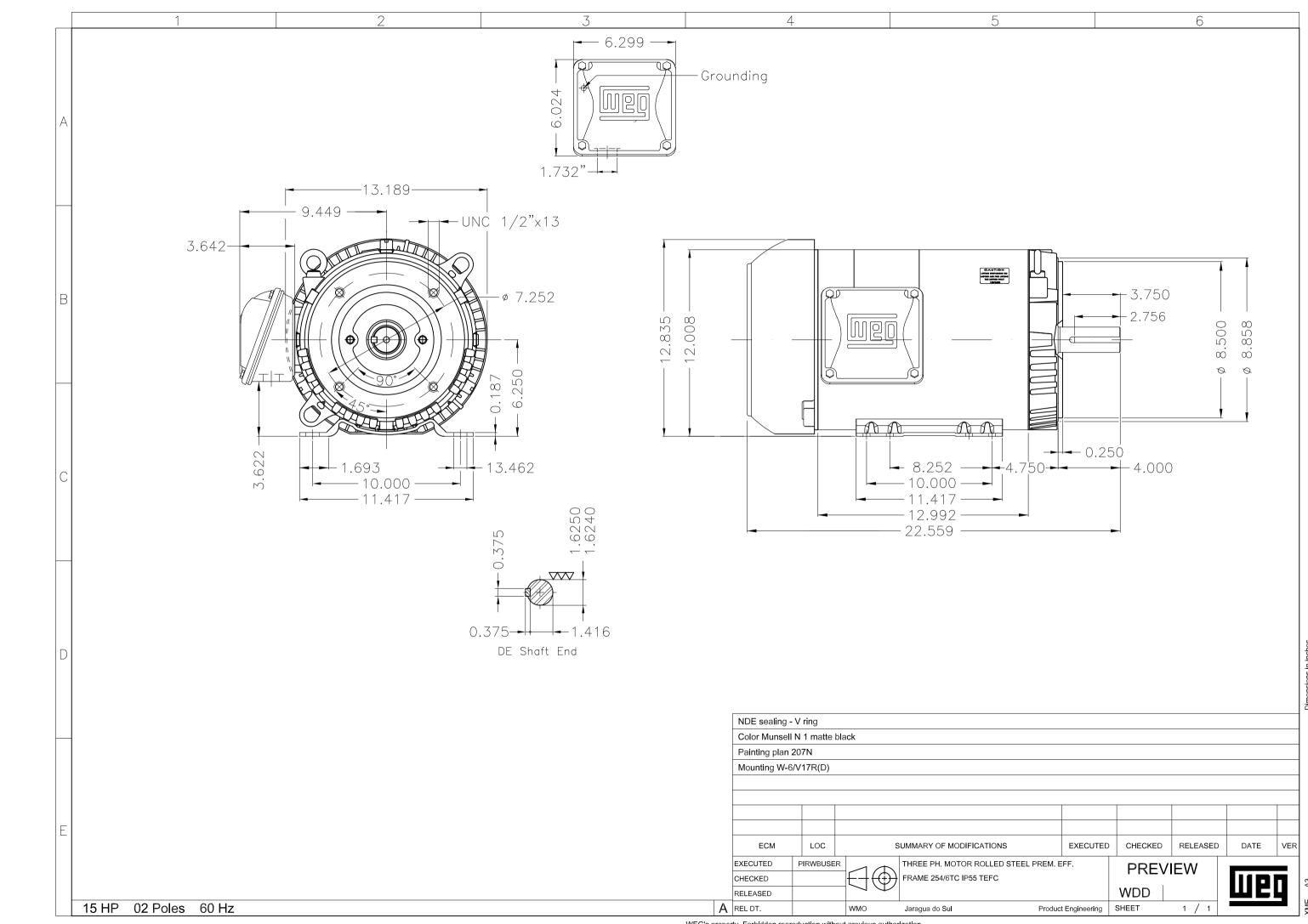
Phase

Product code: 14122242

Catalog #: 01536ET3H254TC-S



Performance : 575 V 60 Hz 2P : 13.9 A Rated current Moment of inertia (J) : 0.8718 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 : 22.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3525 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by









SAFE AREA	For 60Hz: Class I, DIV Class I
83	

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COUS Energy Verifik	or 60Hz: Class I, Zone 2 lass I, Dlv.2, Gr. A.B.C.D Class II, Dlv.2, Gr. F.G Dlv 2 Inverter Duty (SF1 CT 2:1/NT 101	
3PT9 S LISTED REA	or 60Hz: Cl lass I, Dlv.2 Class II, I Dlv 2 Inver	

MODEL 01536ET3H254TC-S

3SEP2021

Hz 60 S/N

254/6TC

CONT

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•	0.87	3525	
;	뿚	Md	NEMA

RPM 3FA 냃 뿝 ۹

> ľσ P55 CODE SH

> > TEFC

115 575 13.9 16.0

1000 m.a.s.l

F AT 80K

0 NSCL INC. WB









- For safe area-inverter duty motor For use on VPWM 1000:1 VT, 10:1 CT ME XERY POLYREX EM

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ODE 6208-Z-C3 9

8309-Z-C3

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7898h

T2-WHT r3-ORG F6-GRY T1-BLU 15-BLK T4-YEL

WARNING: Motor must be grounded in accordance with local shocks. Disconnect power source before servicing unit. NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION ind national electrical codes to prevent serious electrical

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

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

AVERTISSEMENT: Le moteur doit être mis à la terre