DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12789105 Catalog #: 02036ET3H256T-S Frame : 254/6T Locked rotor time : 21s (cold) 12s (hot) Output : 20 HP (15 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V : 1000 m.a.s.l. Altitude Rated current : 18.2 A Protection degree : IP55 L. R. Amperes : 120 A Cooling method : IC411 - TEFC : 6.6x(Code G) LRC Mounting : F-1 No load current : 5.50 A Rotation¹ : Both (CW and CCW) Rated speed : 3515 rpm Noise level² : 75.0 dB(A) Starting method Slip : 2.36 % : Direct On Line Rated torque : 29.9 ft.lb Approx. weight³ : 219 lb Locked rotor torque : 200 % Breakdown torque : 290 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.22 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 91.0 : 306 lb Efficiency (%) 89.7 90.0 91.0 Max. traction Power Factor 0.88 0.91 : 525 lb 0.55 0.81 Max. compression Non drive end Drive end 6309 Z C3 Bearing type 6208 Z C3 V'Ring Sealing Without Bearing Seal Lubrication interval 15797 h 20000 h Lubricant amount 8 g 13 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



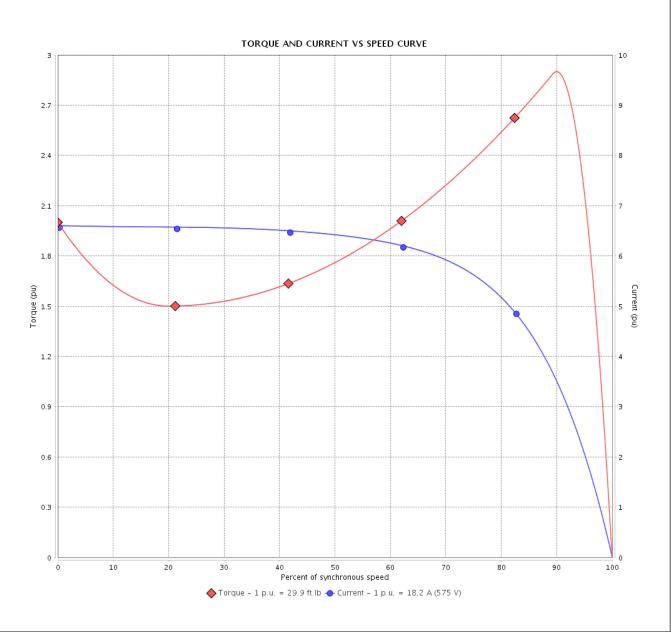
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12789105

Catalog #: 02036ET3H256T-S



Performance : 575 V 60 Hz 2P Rated current : 18.2 A Moment of inertia (J) : 1.22 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 29.9 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3515 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

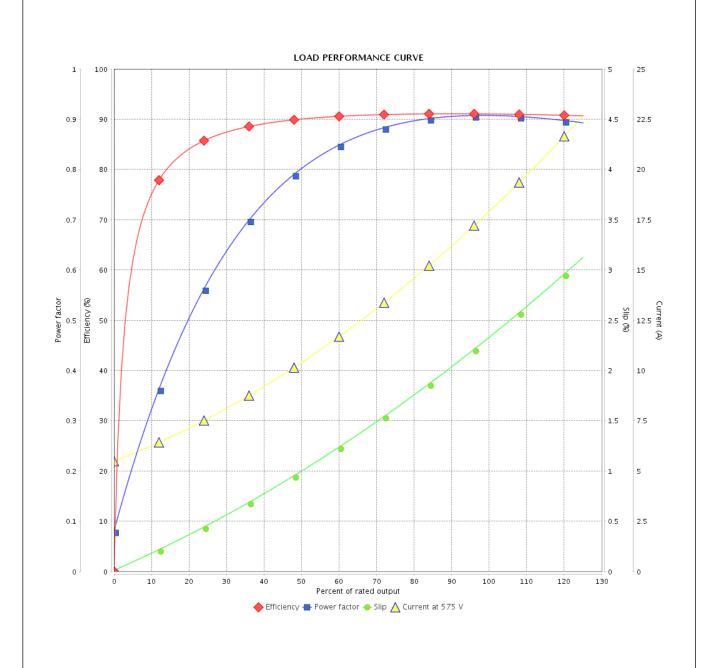


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12789105

Phase

Catalog #: 02036ET3H256T-S



Performance	: 5	75 V 60 Hz 2P				
Rated current	: 1	8.2 A	Moment of inertia (J) : 1.22 sq.ft.lb			
LRC	: 6	5.6 Duty cycle		: Cont.(S1)		
Rated torque	: 2	9.9 ft.lb	Insulation class		:F	
Locked rotor torque	e : 2	200 % Service factor 290 % Temperature rise 3515 rpm Design		: 1.15 : 80 K : B		
Breakdown torque	: 2					
Rated speed	: 3					
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



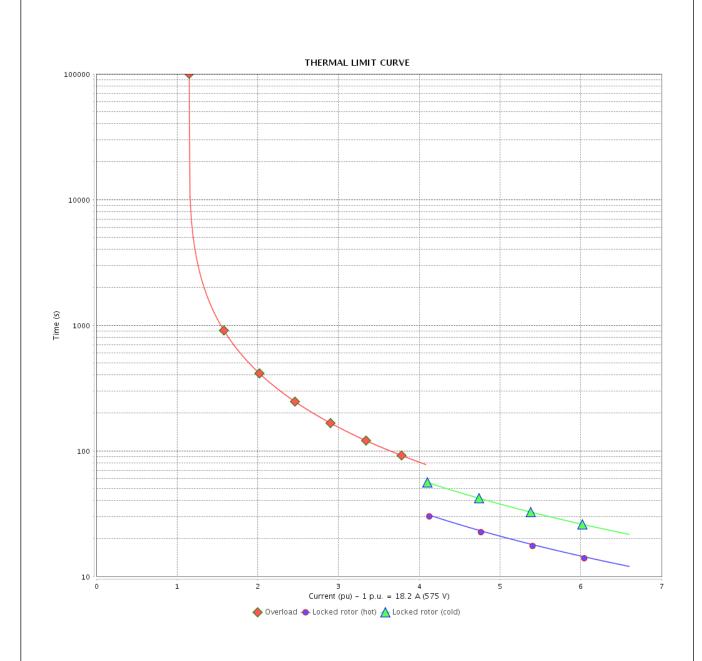
Customer	:			
Product line	: NEMA Premium Efficiency 1 Phase	Three- Product code : Catalog # :	12789105 02036ET3H256T-	
		•		
Performance	: 575 V 60 Hz 2P			
Rated current	: 18.2 A	Moment of inertia (J)	: 1.22 sq.ft.lb	
LRC Rated torque	: 6.6 : 29.9 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 200 %	Service factor	: 1.15	
Breakdown torque Rated speed	: 290 % : 3515 rpm	Temperature rise Design	: 80 K : B	
Heating constant	r .			
Cooling constant				
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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

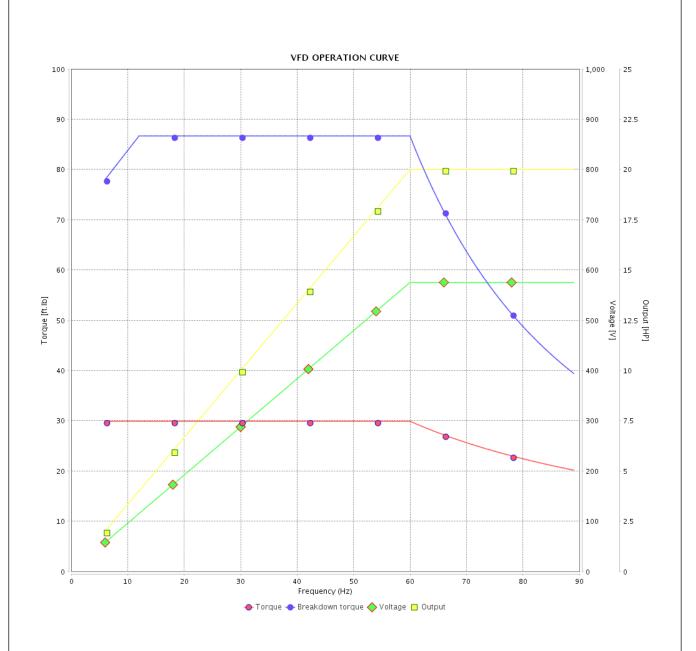
14/04/2022

Product line : NEMA Premium Efficiency Three- F

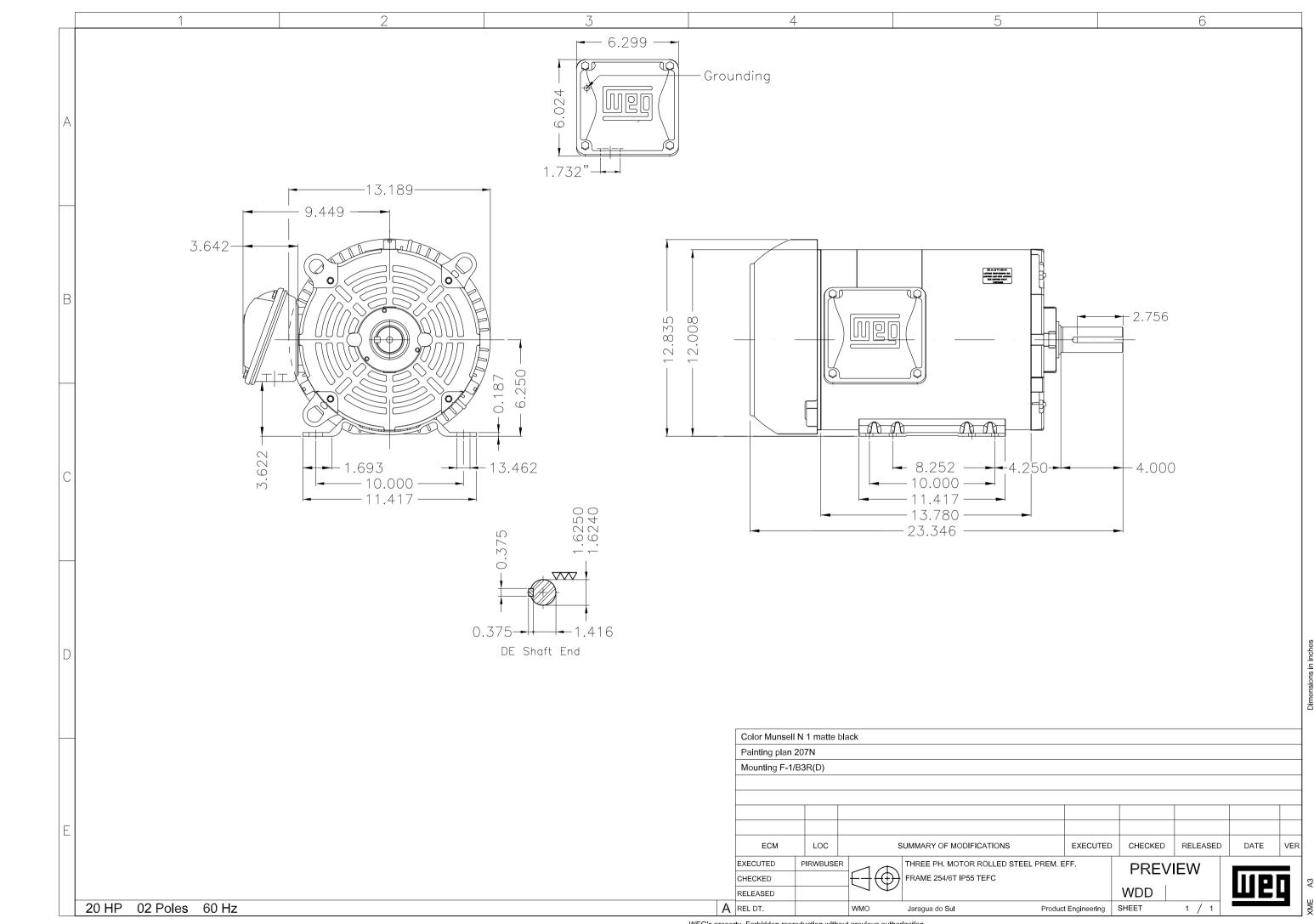
Phase

Product code: 12789105

Catalog #: 02036ET3H256T-S



Performance : 575 V 60 Hz 2P : 18.2 A Rated current Moment of inertia (J) : 1.22 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 : 29.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3515 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by





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(**UL)**US LISTED 3PT9 FOR SAFE AREA

Class I, DIv.2, Gr. A,B,C,D - T3 **&** Energy Verified For 60Hz: Class I, Zone 2,

18.2 1.15

1000 m.a.s.l

F AT 80K

575 20.9 NOM. EFF 91.0%

3515 0.91 NEMA

ZPM 3FA SF 쌆

lσ P55 CODE SH

TEFC

0 SCI INC. WB

8 S/N ž

> 254/6T CONT

H020502NPW01 N01.TE0IC0X0N

19JUL2021

CT 2:1/VT 1000:1

Div 2 Inverter Duty (SF1.00)

CC029A

12789105

T2-WHT T1-BLU

15797h

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

ME XERY POLYREX EM

ODE 6208-Z-C3 9

8309-Z-C3

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NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION



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

AVERTISSEMENT: Le moteur doit être mis à la terre shocks. Disconnect power source before servicing unit.



r3-ORG F6-GRY 15-BLK T4-YEL

