DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 12636593

Catalog #: 02036ET3E256T-S

Frame : 254/6T Output : 20 HP (15 kW)

L. R. Amperes : 300/150 A
LRC : 6.6x(Code G)
No load current : 13.8/6.88 A
Rated speed : 3515 rpm
Slip : 2.36 %
Rated torque : 29.9 ft.lb
Locked rotor torque : 200 %

Rated torque : 29.9 ft.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

Duty cycle Ambient temperature Altitude Protection degree Cooling method

Approx. weight³

Locked rotor time

Temperature rise

Cooling method
Mounting
Rotation¹
Noise level²
Starting method

: IP55 : IC411 - TEFC : F-1 : Both (CW and CCW)

: 21s (cold) 12s (hot)

: 80 K

: Cont.(S1) : -20°C to +40°C

: 1000 m.a.s.l.

: 75.0 dB(A) : Direct On Line : 218 lb

 Output
 50%
 75%
 100%
 Foundation loads

 Efficiency (%)
 90.0
 91.0
 91.0
 Max. traction

 Efficiency (%)
 90.0
 91.0
 91.0
 Max. traction
 : 307 lb

 Power Factor
 0.81
 0.88
 0.91
 Max. compression
 : 524 lb

Bearing type : 6309 Z C3
Sealing : V'Ring
Lubrication interval : 15797 h
Lubricant amount : 13 g

Non drive end 6208 Z C3 Without Bearing Seal 20000 h

8 g Mobil Polyrex EM

Notes

Lubricant type

USABLE @208V 50.2A SF 1.00 SFA 50.2A

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	27/10/2023			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



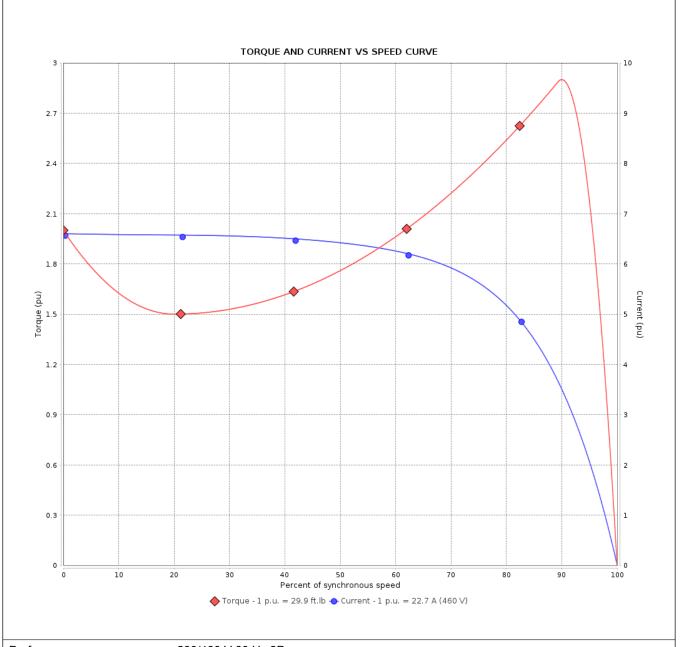
Customer :

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 12636593

Catalog #: 02036ET3E256T-S



Performance : 230/460 V 60 Hz 2P Rated current : 45.4/22.7 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 Service factor : 1.15 Locked rotor torque : 200 %

Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3515 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	27/10/2023			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



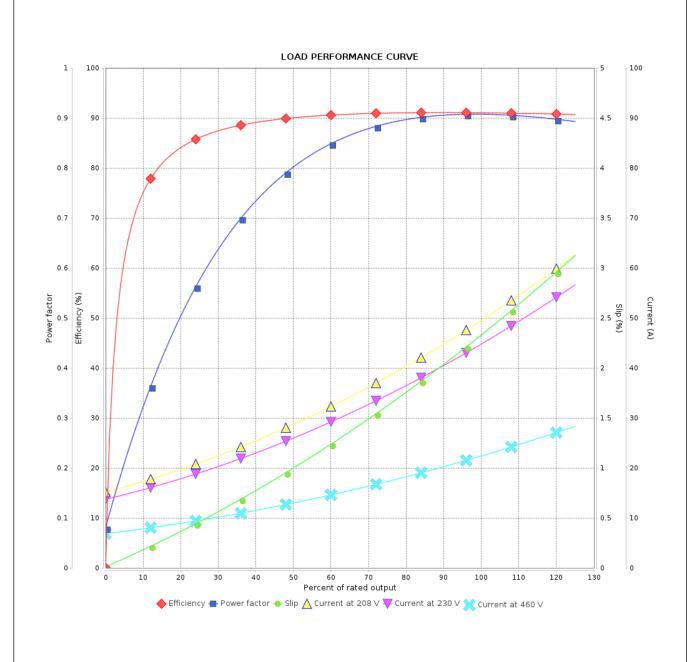
Customer

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 12636593

Catalog #: 02036ET3E256T-S



Performance		: 230/460 V 60 Hz 2P					
Rated current		5.4/22.7 A Moment of inertia (J)		: 1.22 sq.ft.lb			
LRC :		3.6	Duty cycle		: Cont.(S1)		
Rated torque		29.9 ft.lb	Insulation class		: F		
Locked rotor torque		200 %	Service fa	Service factor		: 1.15	
Breakdown torque	e : 2	290 %	Temperati	Temperature rise			
Rated speed	: 3	3515 rpm Design			: B		
Rev.		Changes Summar	у	Performed	Checked	Date	
Performed by							
Checked by		7			Page	Revision	
Date	27/10/2023				3/6		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



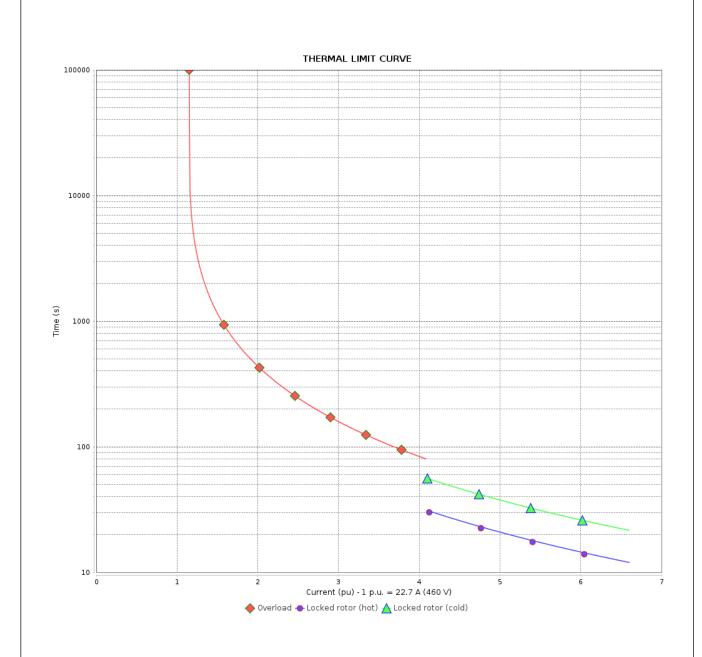
		·				
Customer	:					
Product line	: Rolled St Three-Pha	reel NEMA Premium Efficie	ency	Product code :	12636593	
			1	Catalog # :	02036ET3E2	256T-S
Performance	: 2	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 29 que : 29 ue : 29	5.4/22.7 A .6 9.9 ft.lb 00 % 90 % 515 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.22 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
		r	25.3			
Heating constant						
Cooling constant	l	Changes Summary		Performed	Checked	Date
r\ev.		Changes Summary		renomiea	Checked	Date
Performed by						
Checked by		-			Page	Revision
Date	27/10/2023	-			4/6	•

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	27/10/2023			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



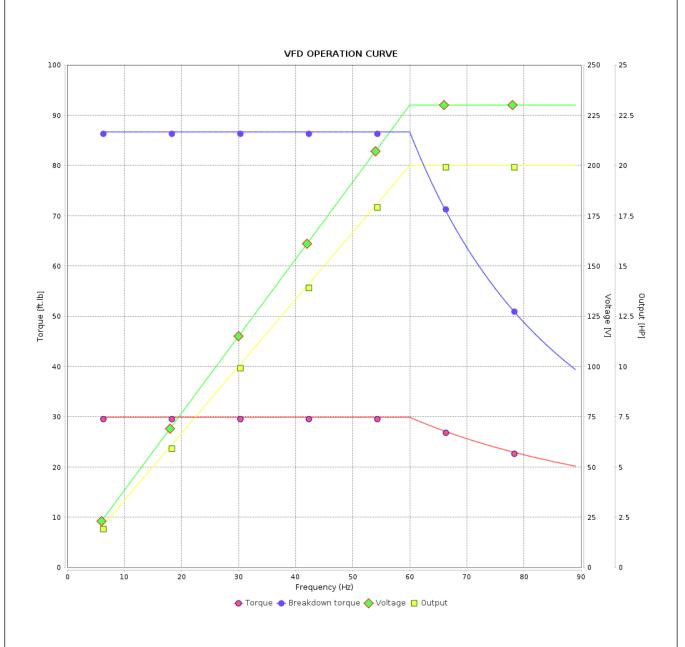
Customer :

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 12636593

Catalog #: 02036ET3E256T-S

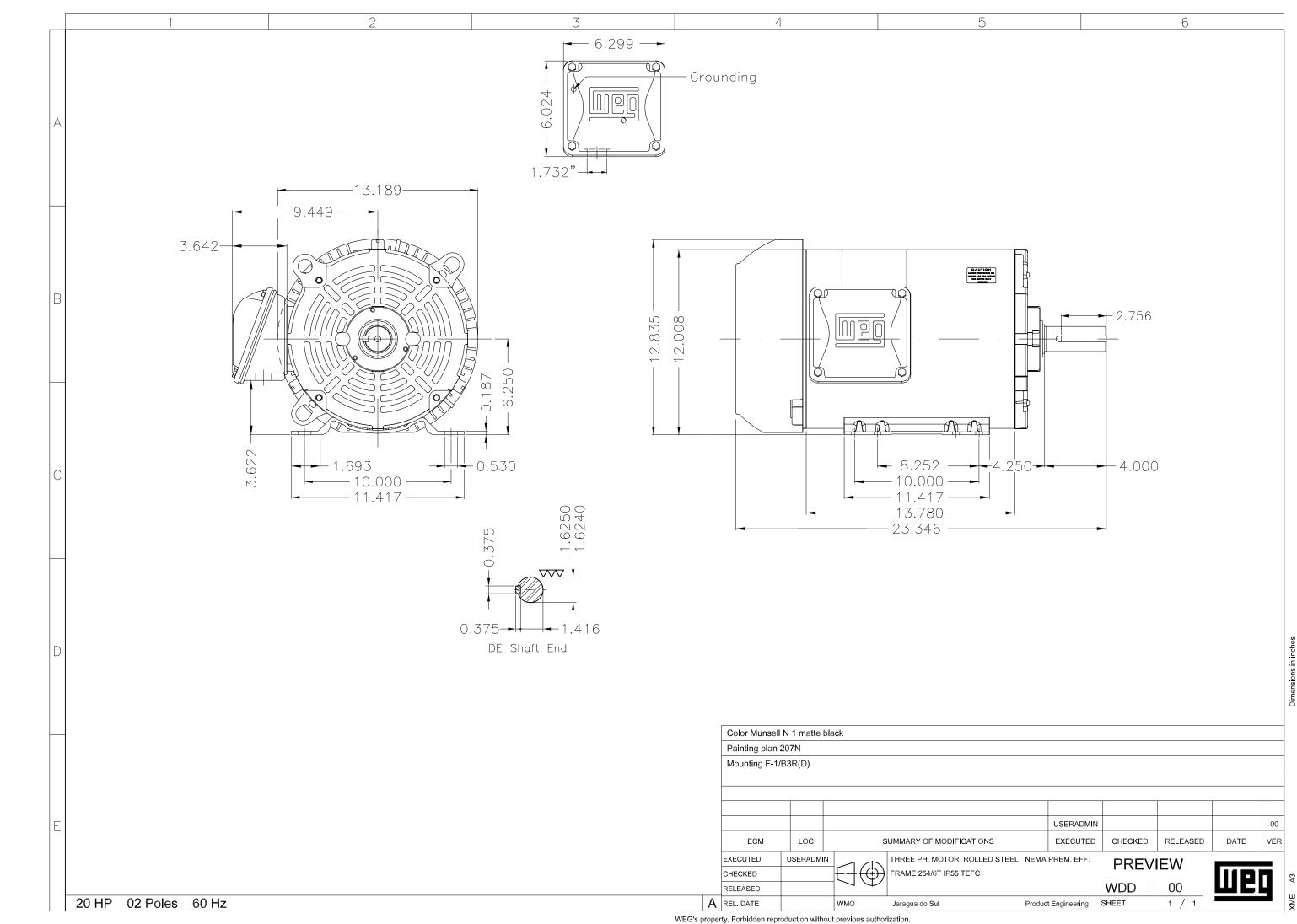


Performance	: 230/460 V 60 Hz 2P				
Rated current	: 45.4/22.7 A	Moment of inertia (J)		: 1.22 sq.ft.lb	
LRC	: 6.6	Duty cycle		: Cont.(S1)	
Rated torque	: 29.9 ft.lb	Insulation class		: F	
Locked rotor torque	: 200 %	Service factor		: 1.15	
Breakdown torque	: 290 %	Temperature rise		: 80 K	
Rated speed	: 3515 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

6/6

27/10/2023

Date





<u>₹</u> D.C. 12636593

MODEL 02036ET3E256T-S 걒 W01.TEOICOXON

For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 CT 2:1/VT 1000:1 Div 2 Inverter Duty (SF1.00)

UL) US LISTED

OR SAFE

3PT9

Energy Verifi

9

254/6T

CONT

3FA lσ P55 CODE DES

1000 m.a.s.l

F AT 80K

NSC INC. WB

TEFC 2°04

냃 쌆

15.4/22.7 230/460 52.2/26

15HP

3515 1.15 16.0 NEMA

SPM

NOM. EFF 91.0%

50 Hz

40.8-35.8/20.4-19.0A ALTERNATE RATING:

6309-Z-C3

牌

IEC 60034-1 15797h

SF1.00

2925RPM ODE 6208-Z-C3

111

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT 190-220/380-415V MOBIL POLYREX EM **EFF 91.2% T11**

T2-WH T9-RED BRK 1-BLU 13-ORG F5-BLK L7-PNK

777

мот



shocks. Disconnect power source before servicing unit. NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local 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

