

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase			
Product code :	12706984			
Catalog # :	02536OT3H256TC-S			
Frame : 254/6TC Output : 25 HP (18.5 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 575 V Rated current : 23.3 A L. R. Amperes : 147 A LRC : 6.3x(Code G) No load current : 9.12 A Rated speed : 3530 rpm Slip : 1.94 % Rated torque : 37.2 ft.lb Locked rotor torque : 180 % Breakdown torque : 290 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.9155 sq.ft.lb Design : B	Locked rotor time : 16s (cold) 9s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Cooling method : IC01 - ODP Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 70.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 193 lb			
Output	25% 50% 75% 100%			
Efficiency (%)	90.8 91.0 91.7 91.7			
Power Factor	0.46 0.73 0.83 0.87			
Foundation loads				
Max. traction	: 421 lb			
Max. compression	: 614 lb			
Bearing type	: <u>Drive end</u> 6309 Z C3 <u>Non drive end</u> 6208 Z C3			
Sealing	: Without Bearing Seal Without Bearing Seal			
Lubrication interval	: 20000 h 20000 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



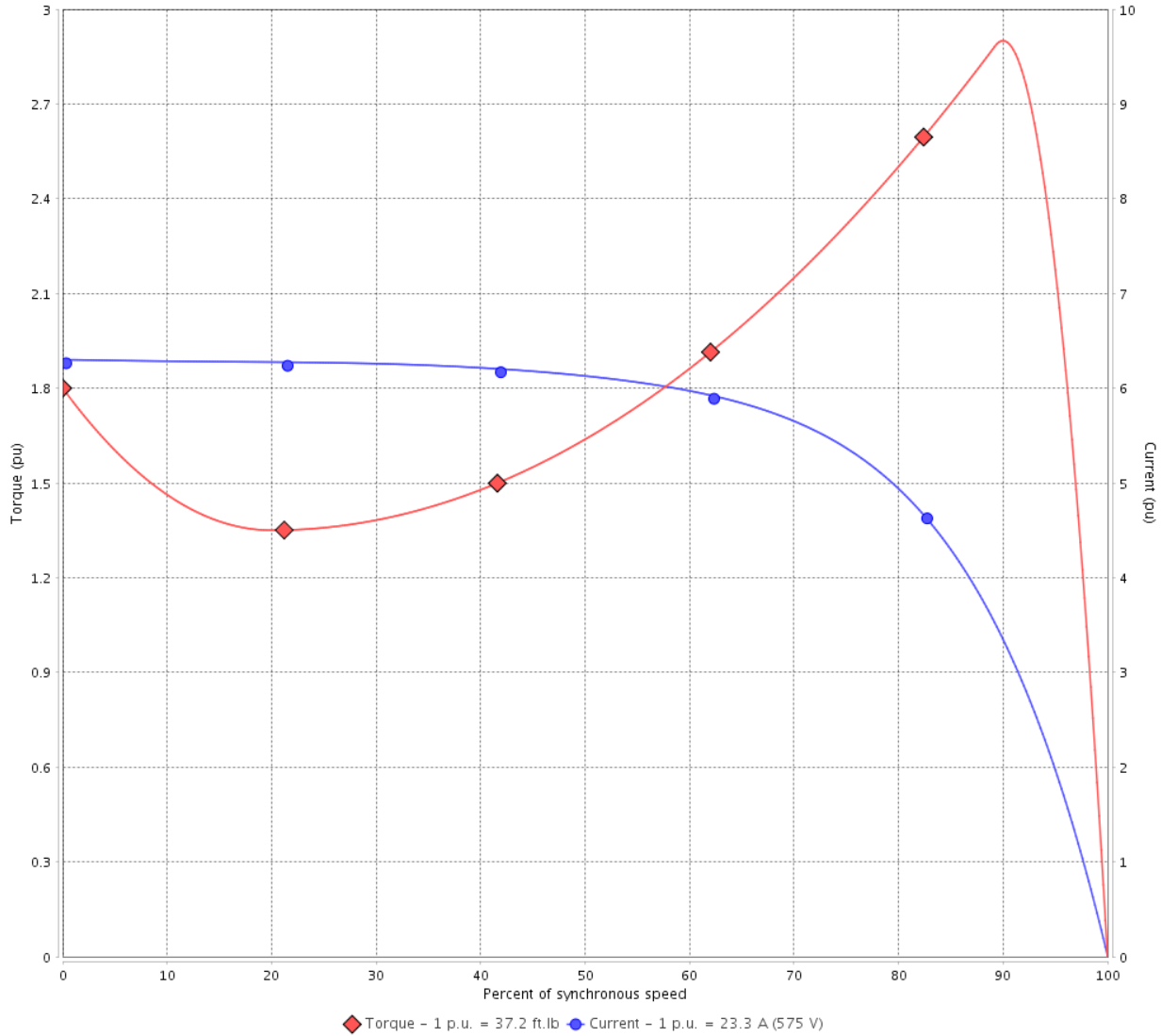
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12706984

Catalog # : 02536OT3H256TC-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 23.3 A	Moment of inertia (J)	: 0.9155 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 37.2 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

Locked rotor time : 16s (cold) 9s (hot)

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LOAD PERFORMANCE CURVE

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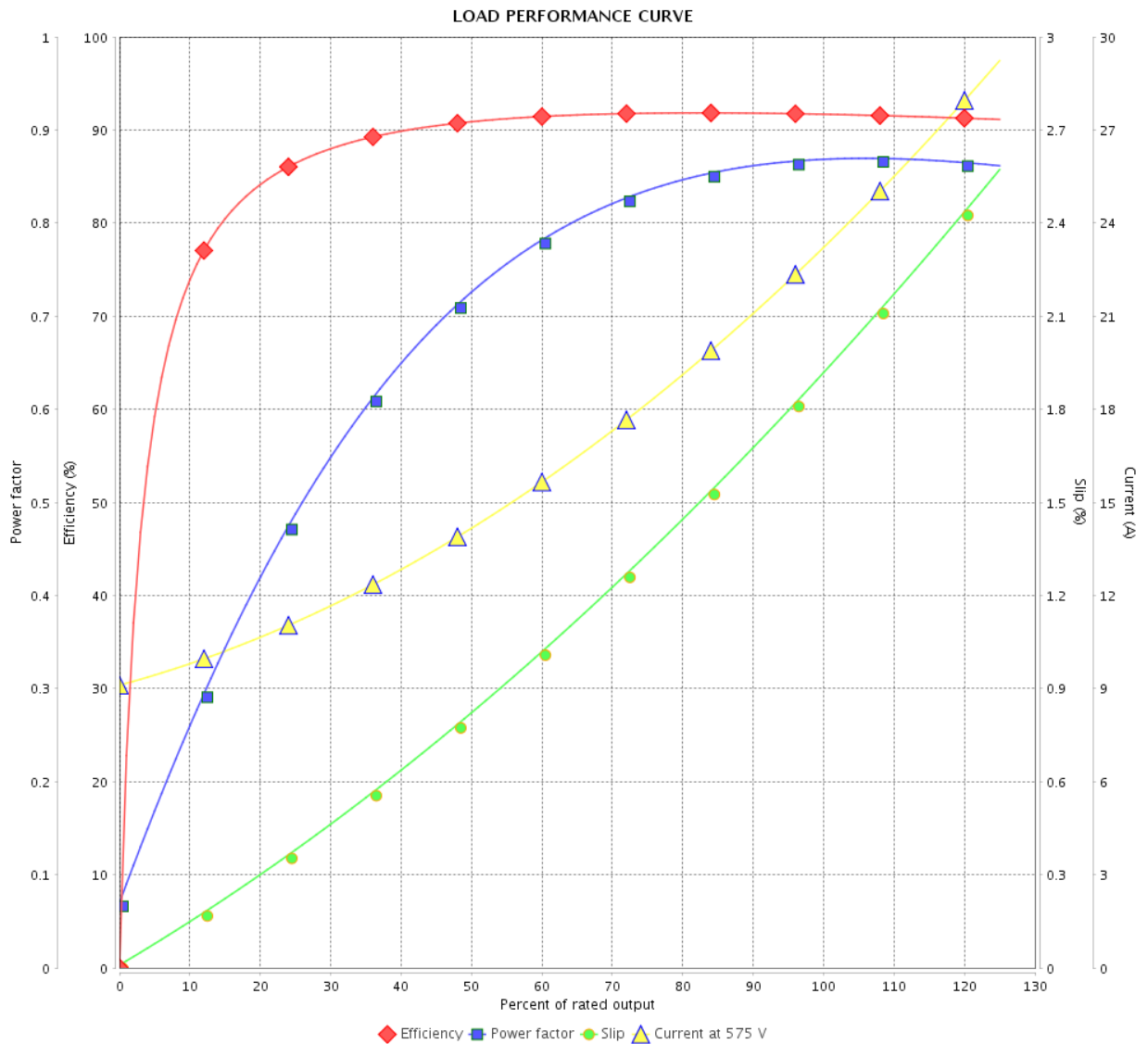


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 Service factor : 1.15
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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

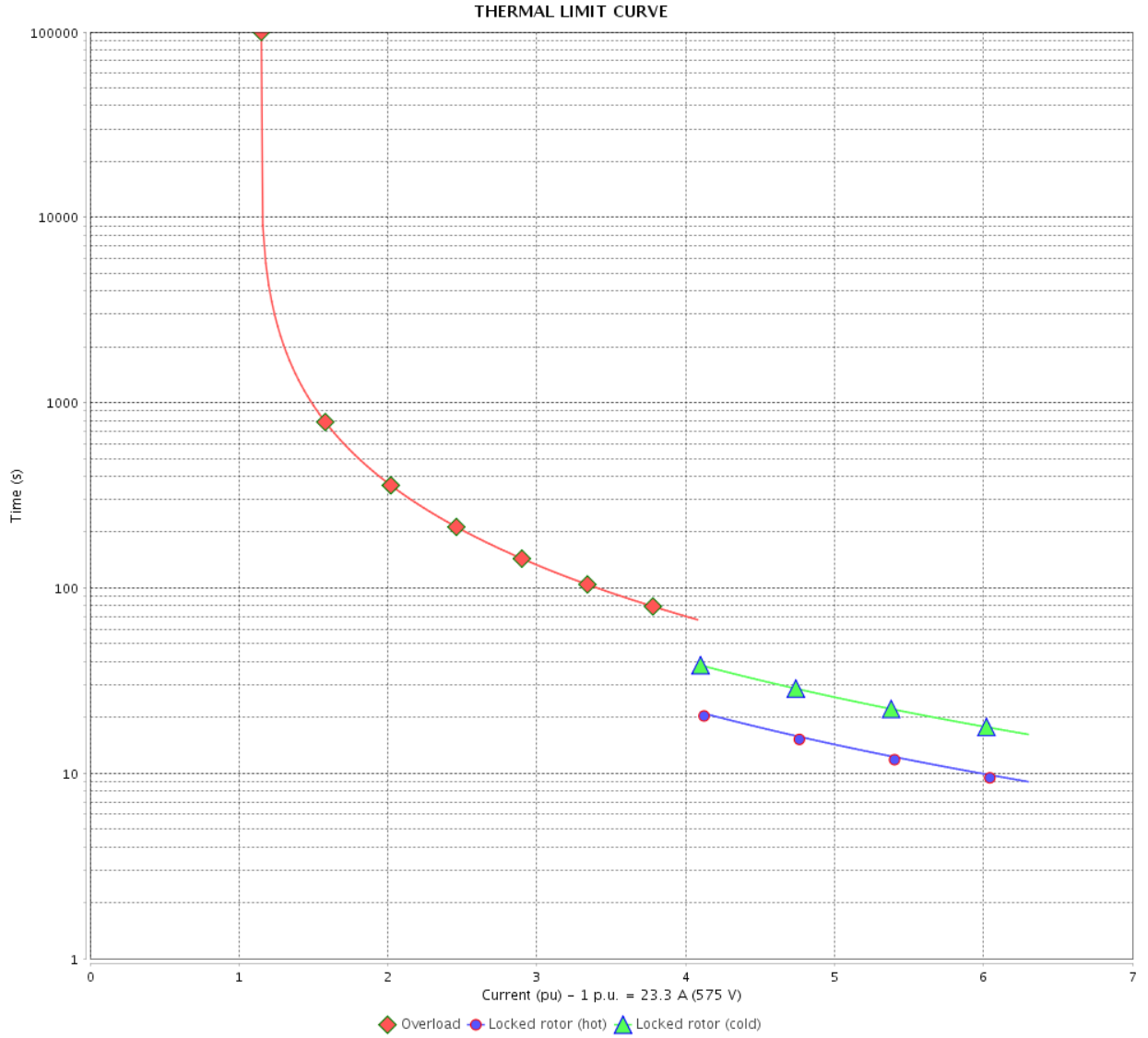
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



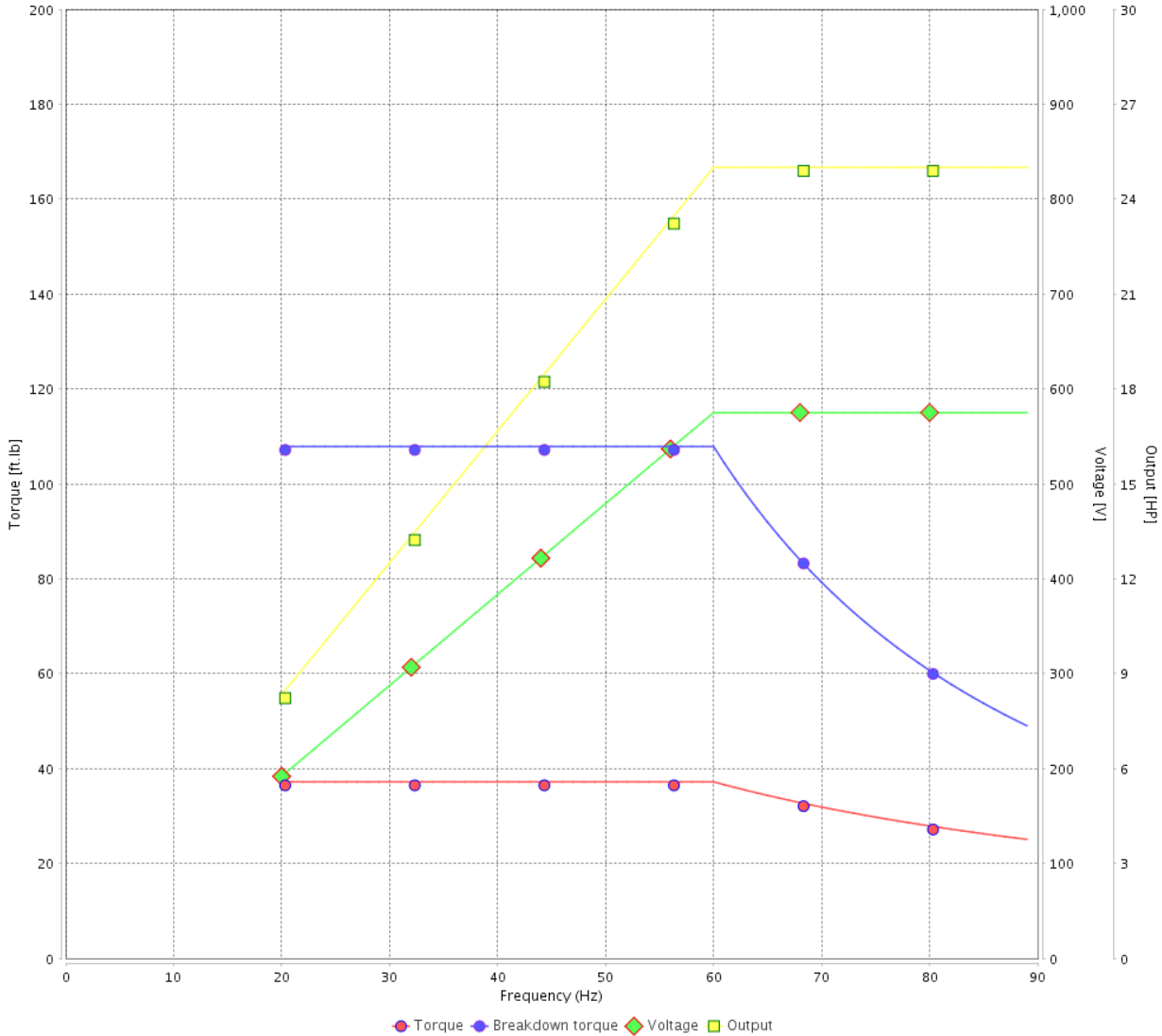
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VFD OPERATION CURVE

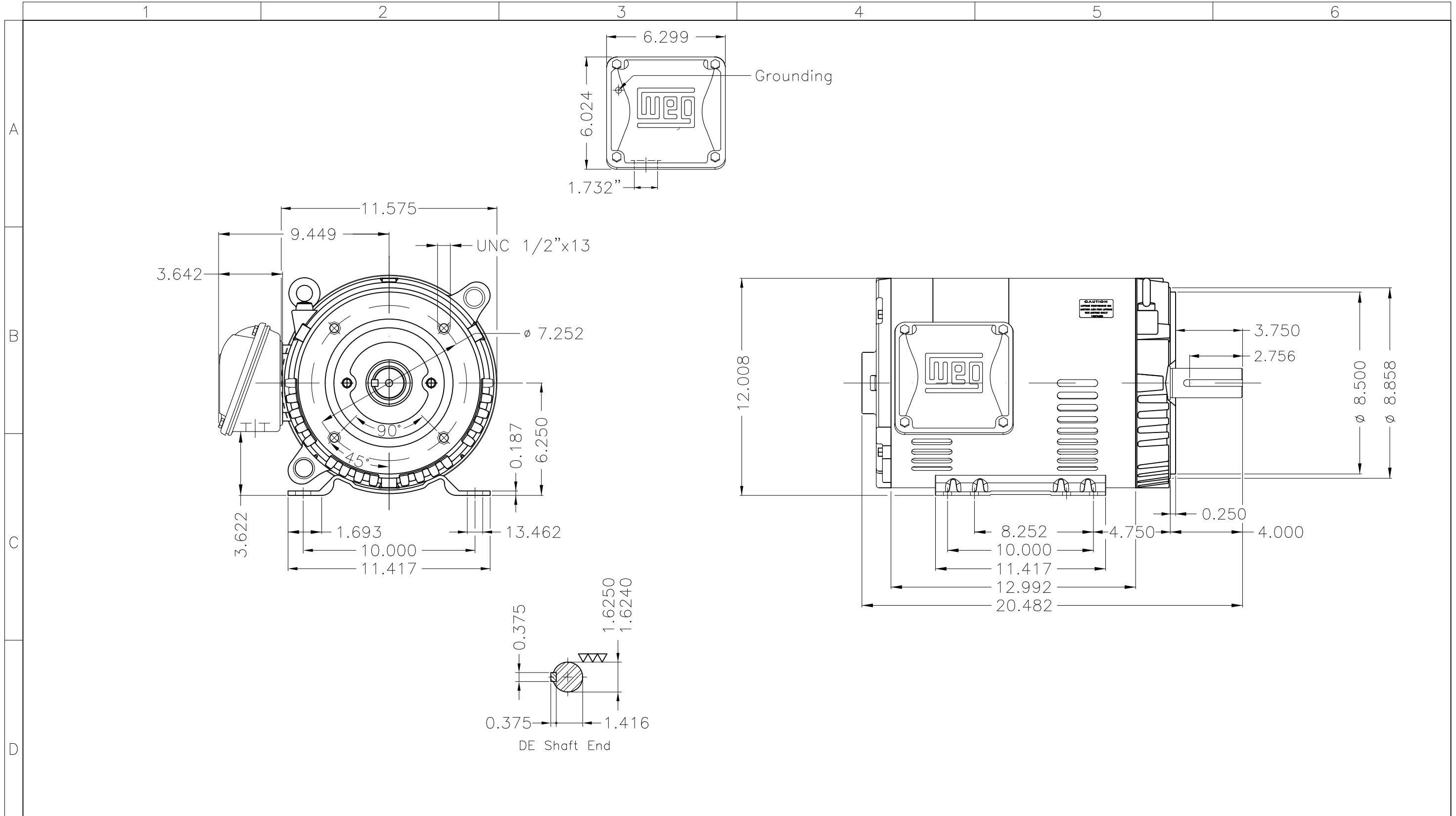


Performance : 575 V 60 Hz 2P

Rated current : 23.3 A
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 Rated torque : 37.2 ft.lb
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Color Munsell N 1 matte black										
Painting plan 207N										
Mounting F-1/B34R(D)										
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.				PREVIEW	WDD	SHEET	1 / 1	
CHECKED		FRAME 254/6TC IP21 ODP								
RELEASED										
REL DT.		WMO	Jaragua do Sul	Product Engineering						

25 HP 02 Poles 60 Hz

WEG
NEMA
Premium3PT9
US LISTED

Energy Verified

MADE IN MEXICO

MAT: 12706984 CC029A

W01.T00IC0X0N

MODEL 025360T3H256TC-S

25MAR2019 S/N:

PH 3 FR 254/6TC |HP(kW) 25(18.5)

Hz 60

V 575

RPM 3530

A 23.3

DUTY CONT.

SFA 26.8

CODE G

DES B

ENCL ODP

40°C

AMB

80K

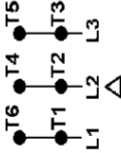
INS CL F ΔT

91.7%

NEMA NOM.EFF.

PF 0.87

ALTERNATE RATING:

T1-BLU T2-WHT
T3-ORG T4-YEL
T5-BLK T6-GRY

INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

Inverter duty For use on VPWM 1000:1 VT, 3:1 CT

DE: 6309-Z-C3 ODE: 6208-Z-C3 MOBIL POLYREX EM 20000h

WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect power source before servicing unit.

AVERTISSEMENT: Le moteur doit être mis à la terre conformément aux codes électriques locaux et nationaux afin d'éviter tout choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine.

