

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: JP Pump NEMA Premium Efficiency Three-Phase			
Product code :	14328080			
Catalog # :	02036ET3H256JP-S			
Frame : 254/6JP Output : 20 HP (15 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 575 V Rated current : 18.2 A L. R. Amperes : 120 A LRC : 6.6x(Code G) No load current : 5.50 A Rated speed : 3515 rpm Slip : 2.36 % 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	Locked rotor time : 21s (cold) 12s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : F-1 Rotation <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 75.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 236 lb			
Output	25%    50%    75%    100%			
Efficiency (%)	89.7    90.0    91.0    91.0			
Power Factor	0.55    0.81    0.88    0.91			
Foundation loads				
Max. traction : 297 lb				
Max. compression : 533 lb				
Bearing type	: <u>Drive end</u> 6309 Z C3 <u>Non drive end</u> 6208 Z C3			
Sealing	: V'Ring      Without Bearing Seal			
Lubrication interval	: 15797 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



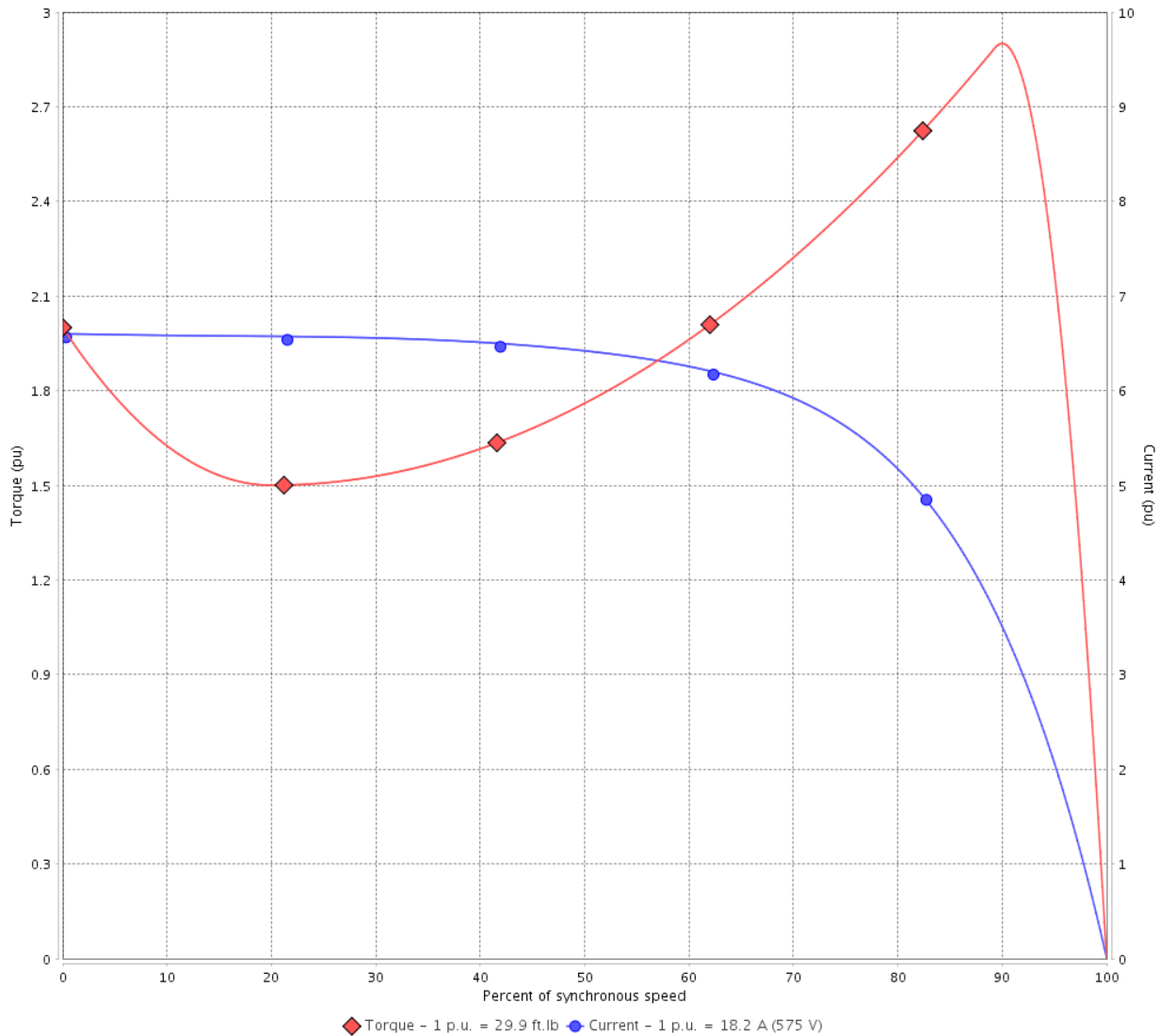
Customer :

Product line : JP Pump NEMA Premium  
Efficiency Three-Phase

Product code : 14328080

Catalog # : 02036ET3H256JP-S

TORQUE AND CURRENT VS SPEED CURVE



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)
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

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

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Date	14/04/2022			

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

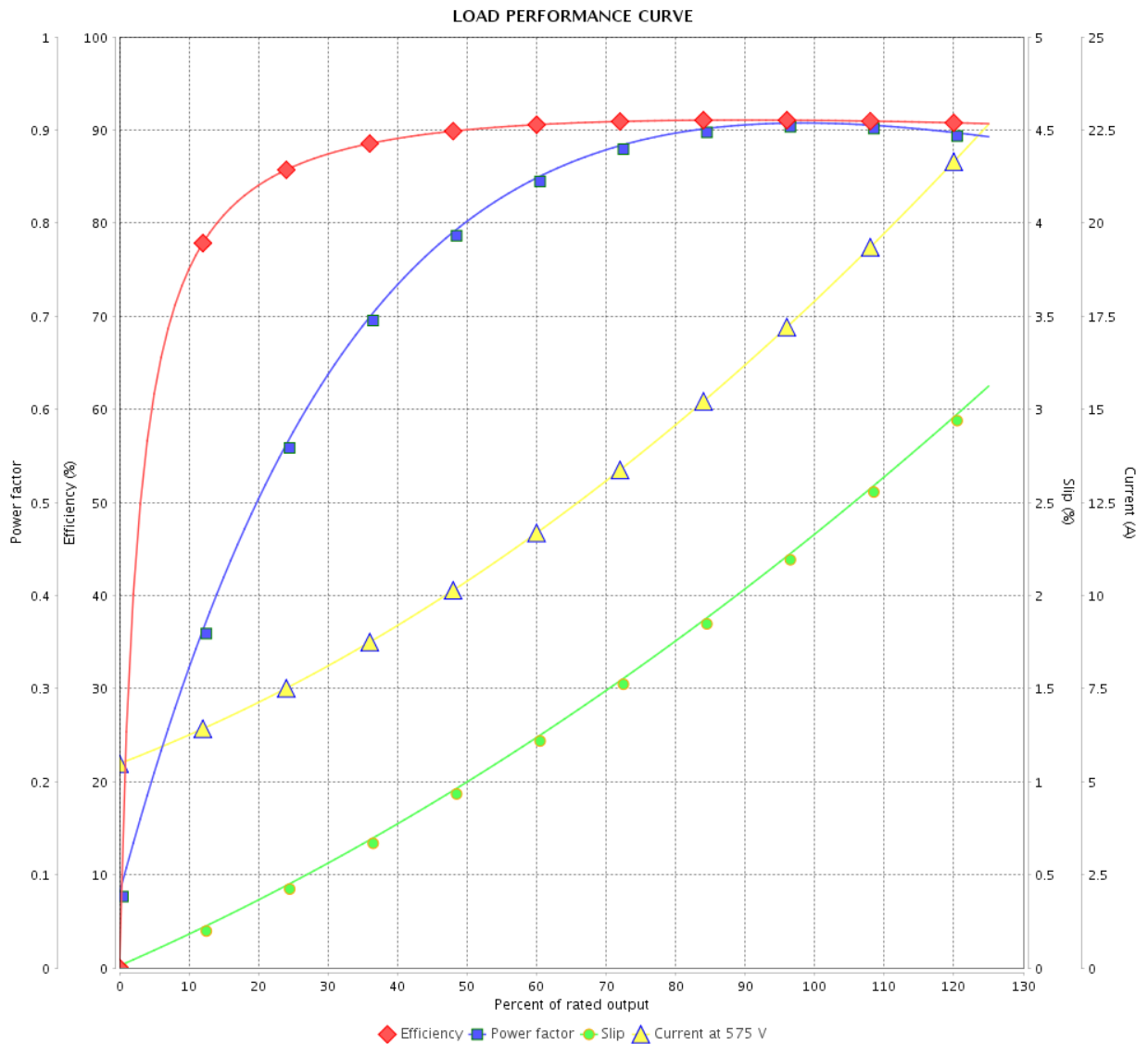


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Product line : JP Pump NEMA Premium  
Efficiency Three-Phase

Product code : 14328080

Catalog # : 02036ET3H256JP-S



Performance : 575 V 60 Hz 2P

Rated current : 18.2 A  
 LRC : 6.6  
 Rated torque : 29.9 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 290 %  
 Rated speed : 3515 rpm

Moment of inertia (J) : 1.22 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# THERMAL LIMIT CURVE



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

Heating constant

Cooling constant

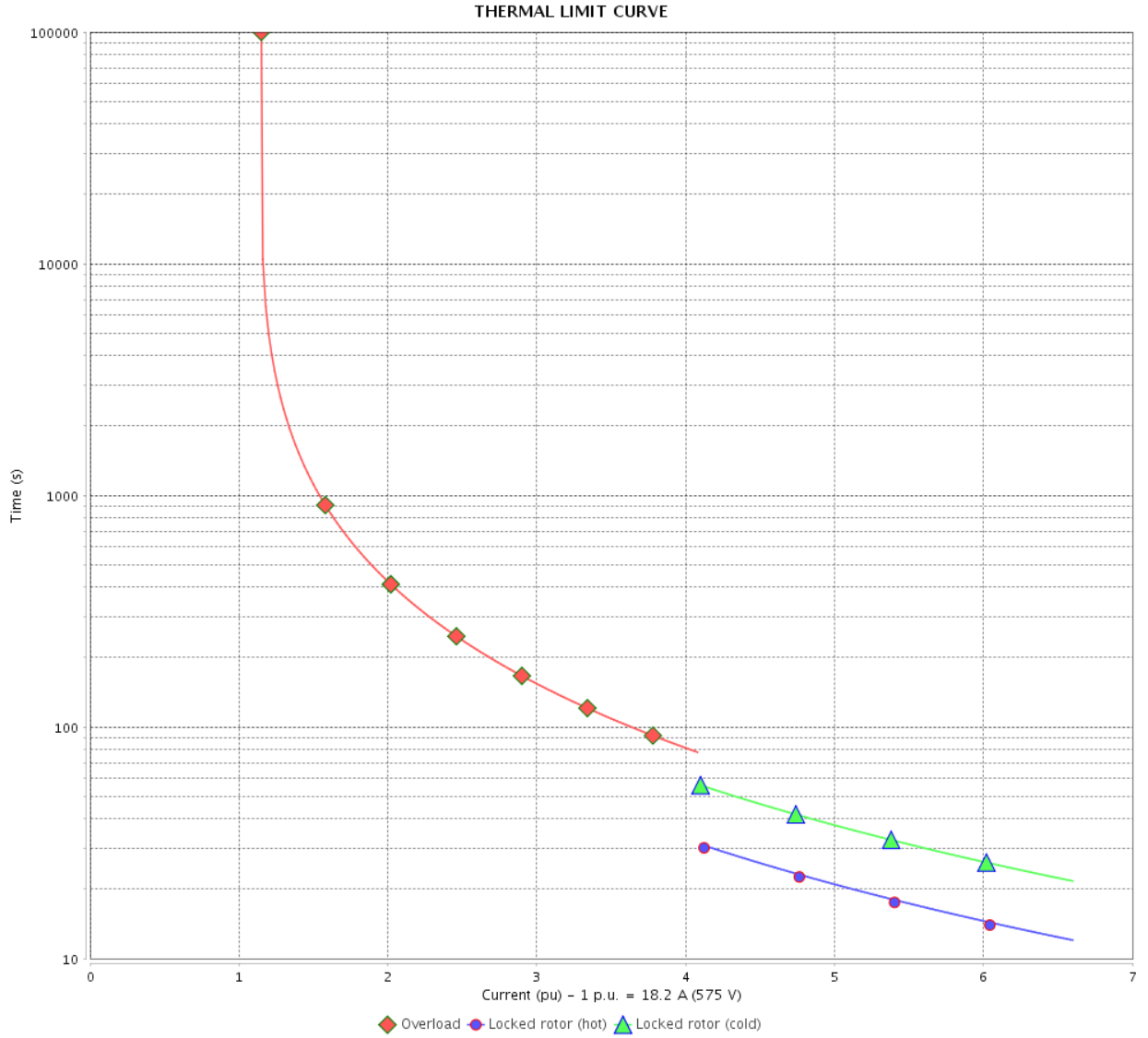
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

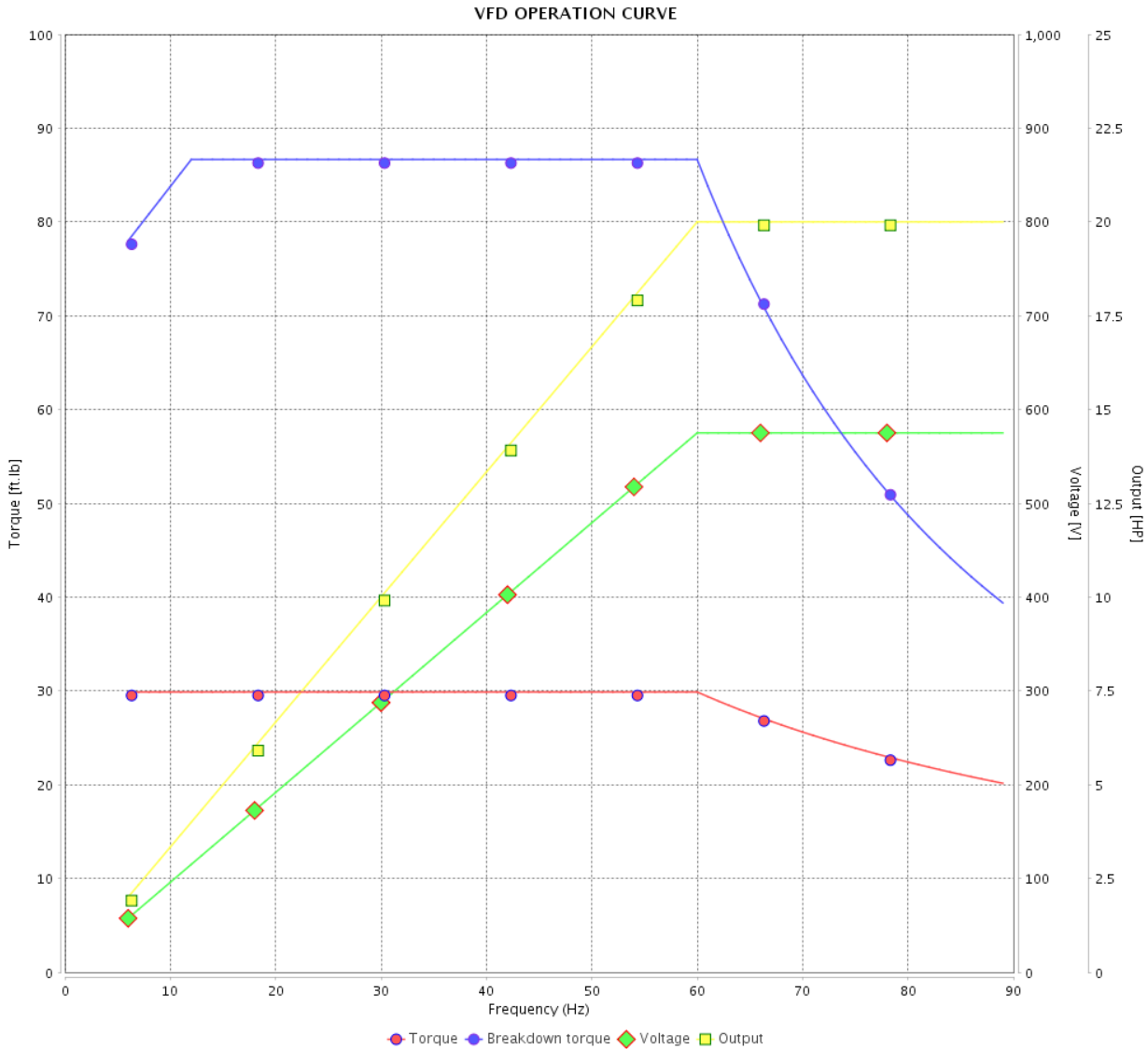


Customer :

Product line : JP Pump NEMA Premium Efficiency Three-Phase

Product code : 14328080

Catalog # : 02036ET3H256JP-S



Performance : 575 V 60 Hz 2P

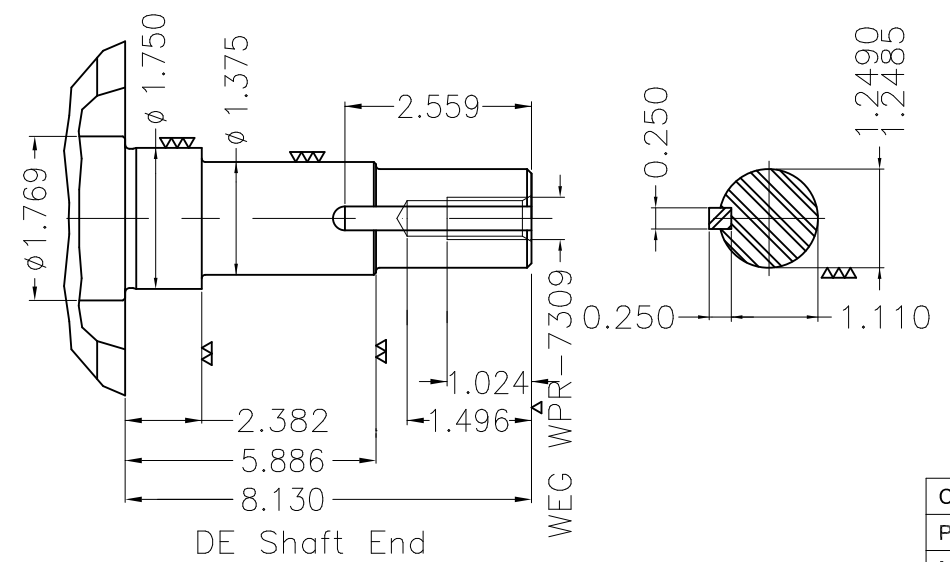
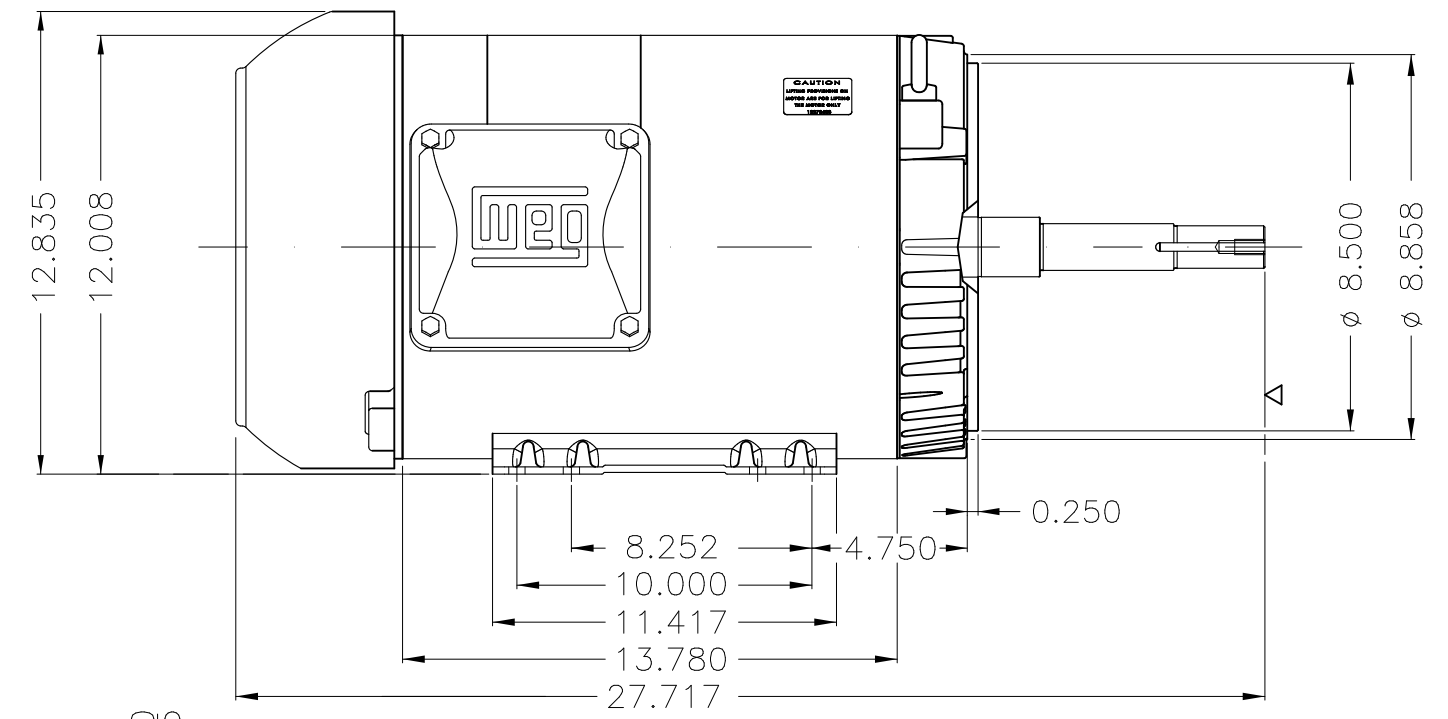
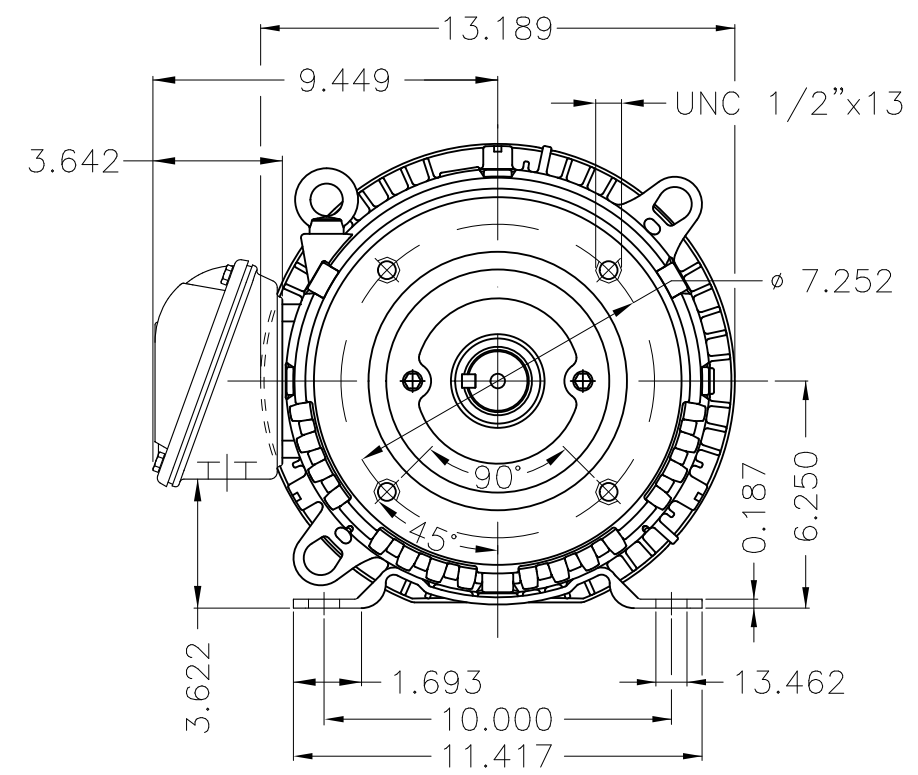
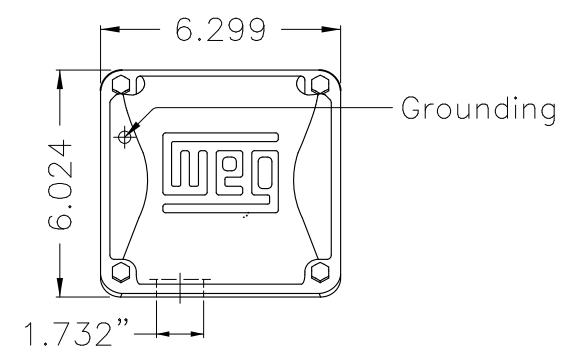
Rated current : 18.2 A  
 LRC : 6.6  
 Rated torque : 29.9 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 290 %  
 Rated speed : 3515 rpm

Moment of inertia (J) : 1.22 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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Date				

1 2 3 4 5 6

A  
B  
C  
D  
E



EUNC 1/2"-13 WEG WPR-7309

DE Shaft End

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 CLOSE COUPLED PUMP JP 254/6P IP55 TEFC					
CHECKED		FRAME 254/6JP IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	WDD	SHEET	1 / 1	

20 HP 02 Poles 60 Hz



**WEG****NEMA**  
**Premium**3PT9  
C US LISTED  
FOR SAFE AREA

Energy Verified

MADE IN MEXICO

MAT: 14328080 CC029A

W01.TE0IC0X0N

JP020502NPW01

18JUN2018 S/N:

PH 3 FR 254/6JP |HP(kW) 20(15)

Hz 60

V 575

RPM 3515

A 18.2

DUTY CONT.

SFA 20.9

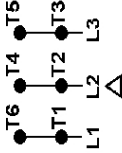
CODE G DES B IP55

SF 1.15

INS CL F ΔT 80K AMB 40°C ENCL TEFC

ALT 1000 m.a.s.l. NEMA NOM.EFF. 91.0% PF 0.91

ALTERNATE RATING:

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

INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

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

DE: 6309-Z-C3 ODE: 6208-Z-C3 MOBIL POLYREX EM 15797h

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.

