

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14329644	
				Catalog # :	01536ET3H254JM-SG	
Frame	: 254/6JM		Locked rotor time	: 25s (cold) 14s (hot)		
Output	: 15 HP (11 kW)		Temperature rise	: 80 K		
Poles	: 2		Duty cycle	: Cont.(S1)		
Frequency	: 60 Hz		Ambient temperature	: -20°C to +40°C		
Rated voltage	: 575 V		Altitude	: 1000 m.a.s.l.		
Rated current	: 13.9 A		Protection degree	: IP55		
L. R. Amperes	: 94.7 A		Cooling method	: IC411 - TEFC		
LRC	: 6.8x(Code G)		Mounting	: F-1		
No load current	: 5.20 A		Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 3525 rpm		Noise level <sup>2</sup>	: 75.0 dB(A)		
Slip	: 2.08 %		Starting method	: Direct On Line		
Rated torque	: 22.3 ft.lb		Approx. weight <sup>3</sup>	: 175 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	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	89.2	89.5	91.0	91.0	Max. traction : 234 lb	
Power Factor	0.47	0.73	0.83	0.87	Max. compression : 409 lb	
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	: 6309 Z C3		: 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



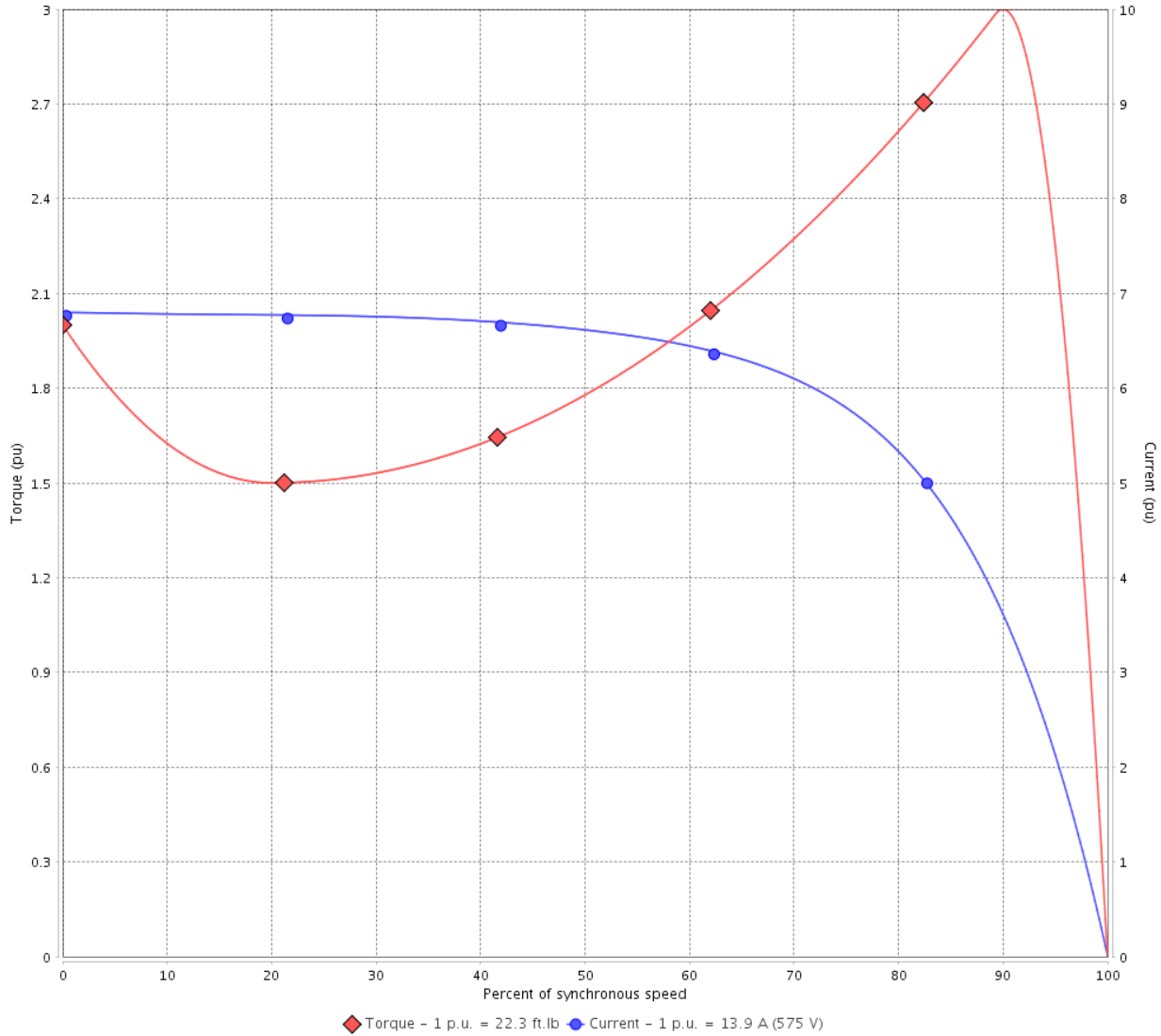
Customer :

Product line : JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 14329644

Catalog # : 01536ET3H254JM-SG

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 2P

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

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

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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

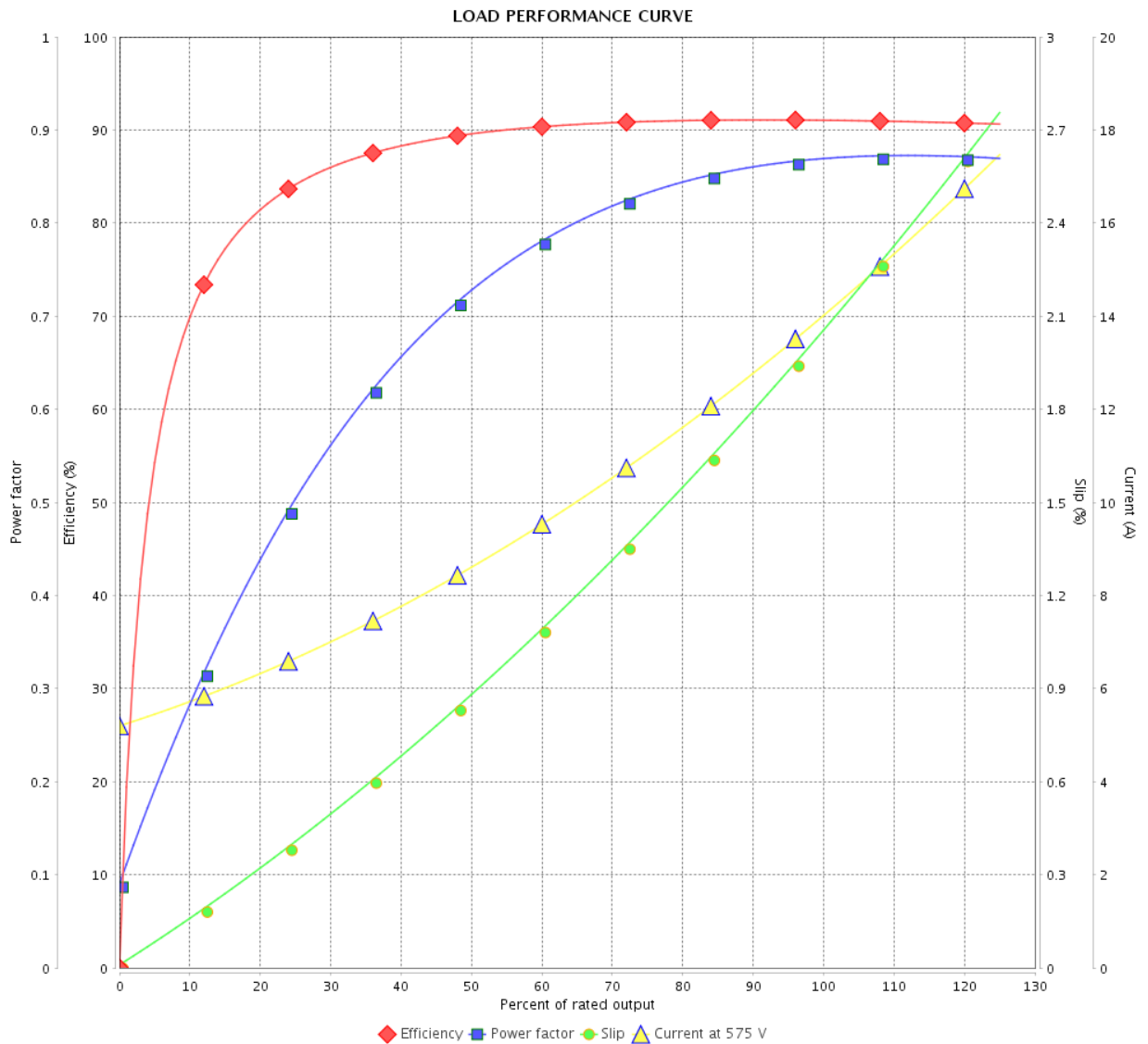


Customer :

Product line : JM Pump NEMA Premium Efficiency Three-Phase

Product code : 14329644

Catalog # : 01536ET3H254JM-SG



Performance : 575 V 60 Hz 2P

Rated current : 13.9 A  
 LRC : 6.8  
 Rated torque : 22.3 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 300 %  
 Rated speed : 3525 rpm

Moment of inertia (J) : 0.8718 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



## Three Phase Induction Motor - Squirrel Cage

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Product line : JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 14329644

Catalog # : 01536ET3H254JM-SG

Performance : 575 V 60 Hz 2P

Rated current : 13.9 A  
LRC : 6.8  
Rated torque : 22.3 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 300 %  
Rated speed : 3525 rpm

Moment of inertia (J) : 0.8718 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

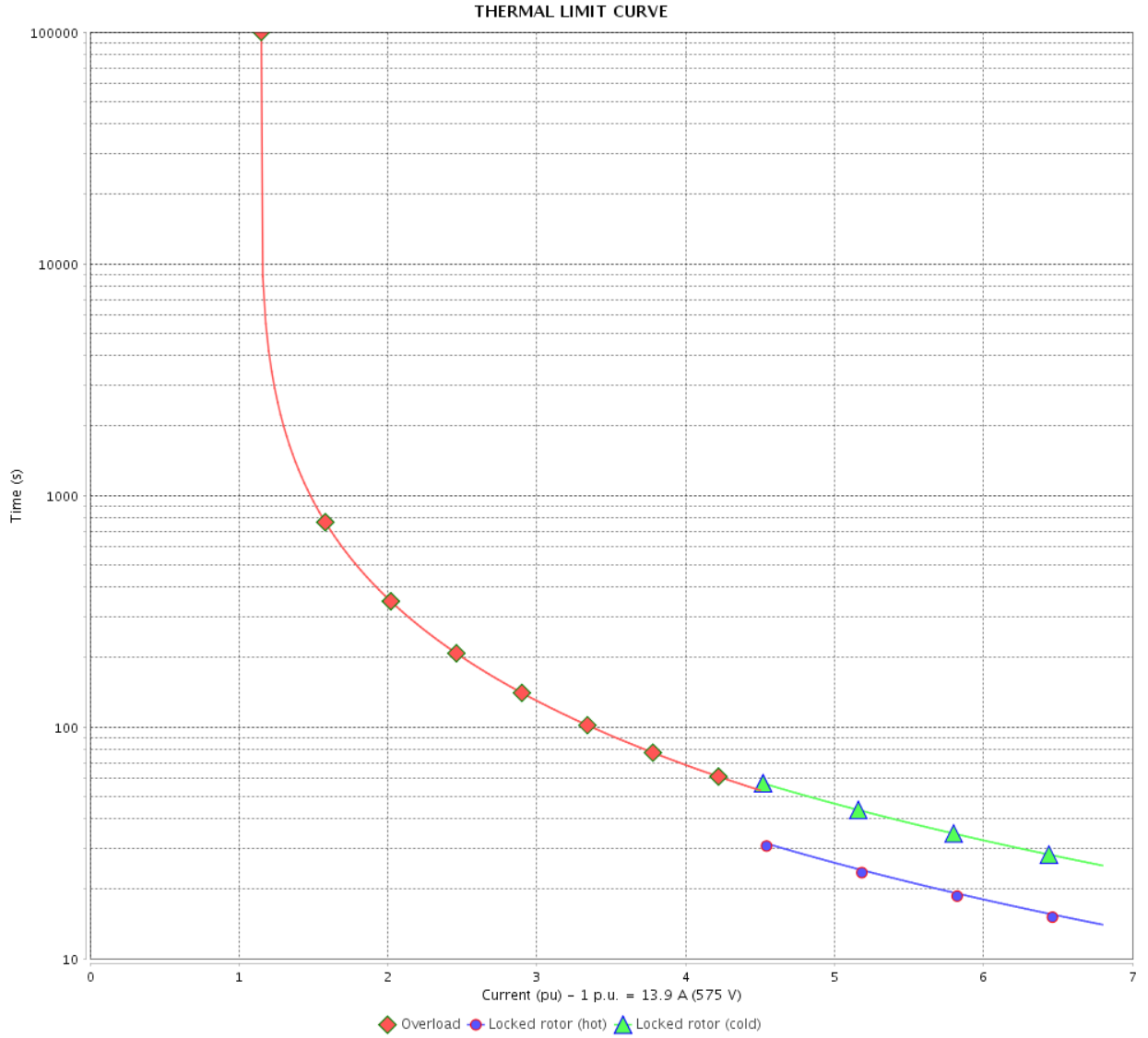
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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Date				

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



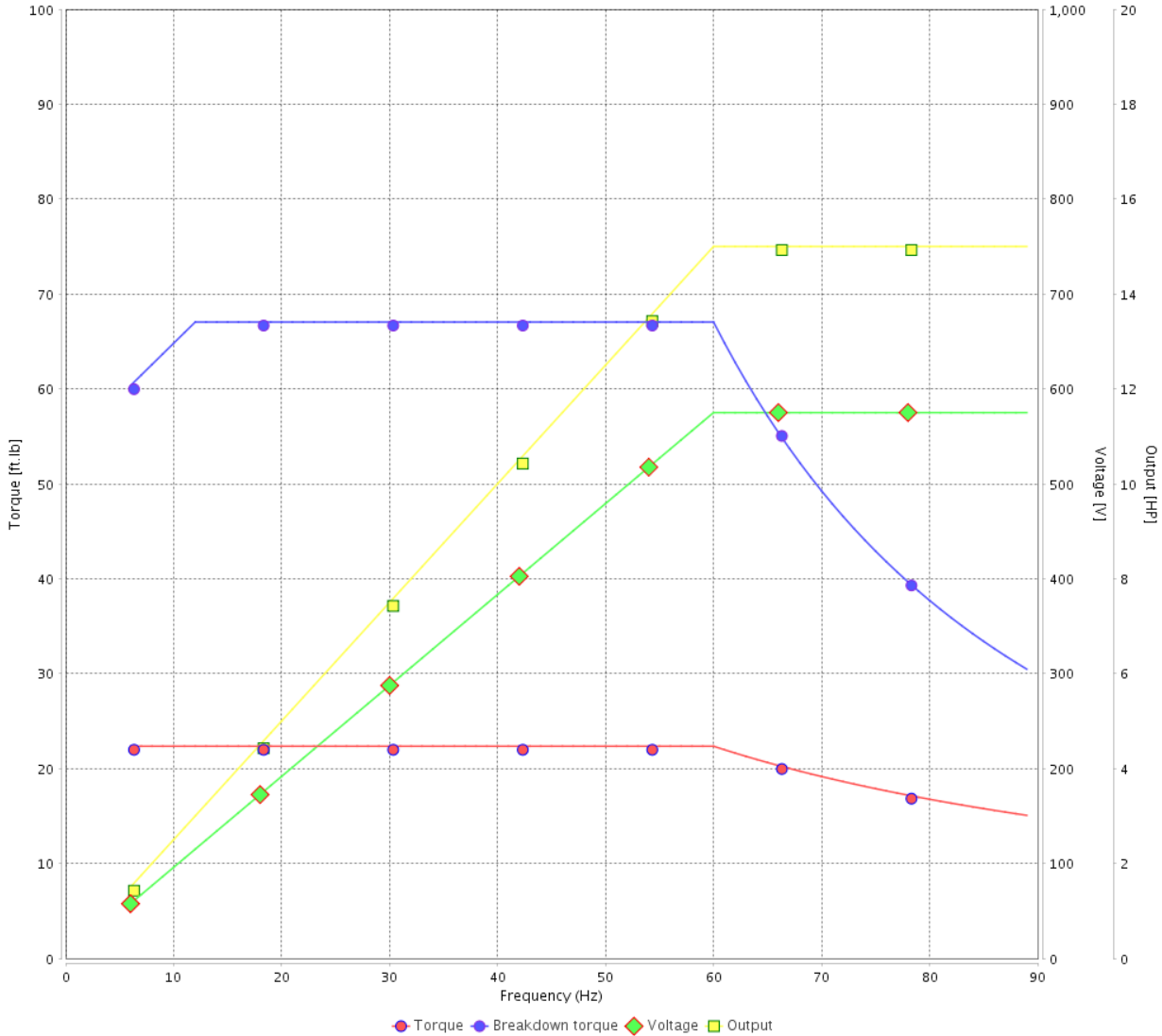
Customer : \_\_\_\_\_

Product line : JM Pump NEMA Premium Efficiency Three-Phase

Product code : 14329644

Catalog # : 01536ET3H254JM-SG

VFD OPERATION CURVE



Performance : 575 V 60 Hz 2P

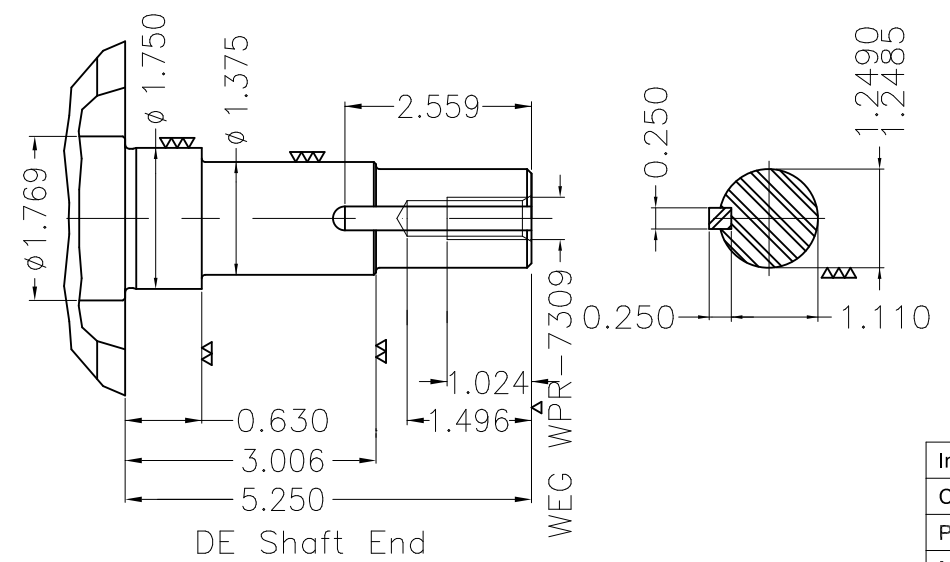
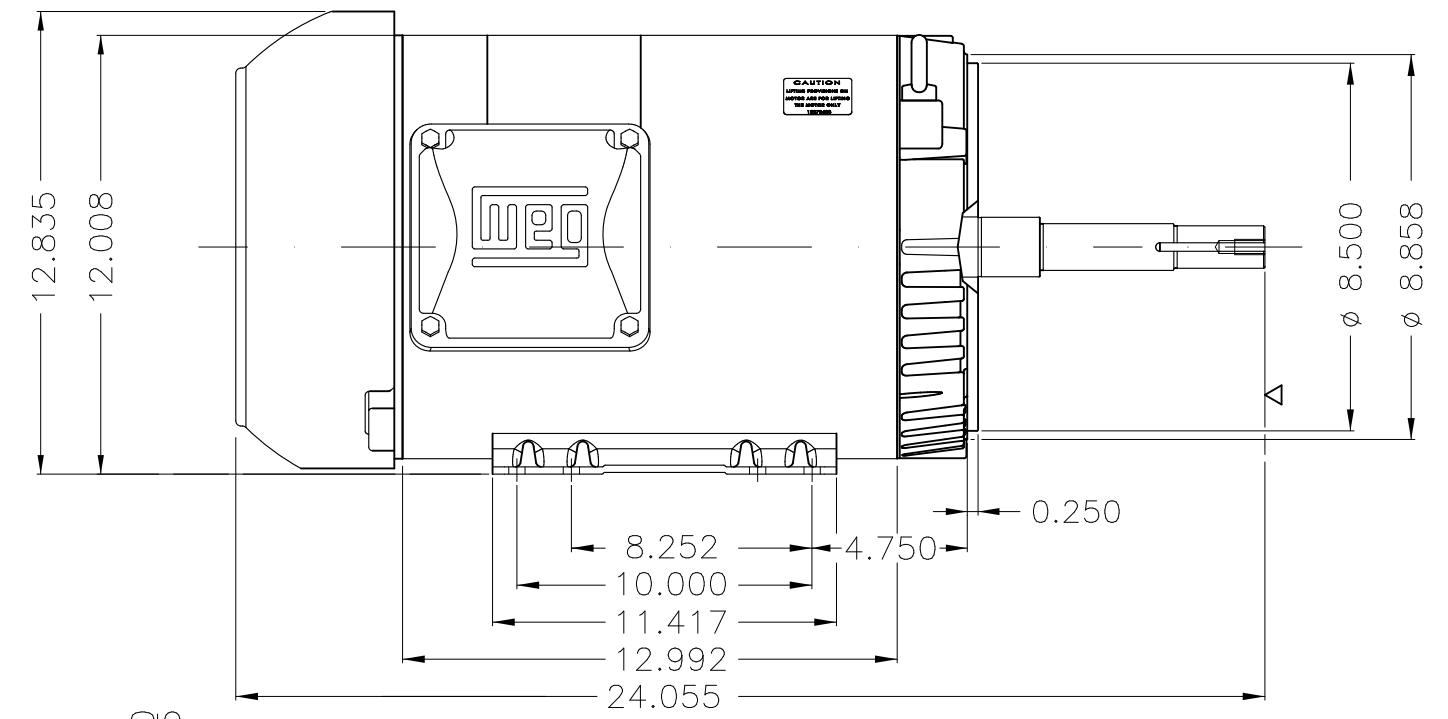
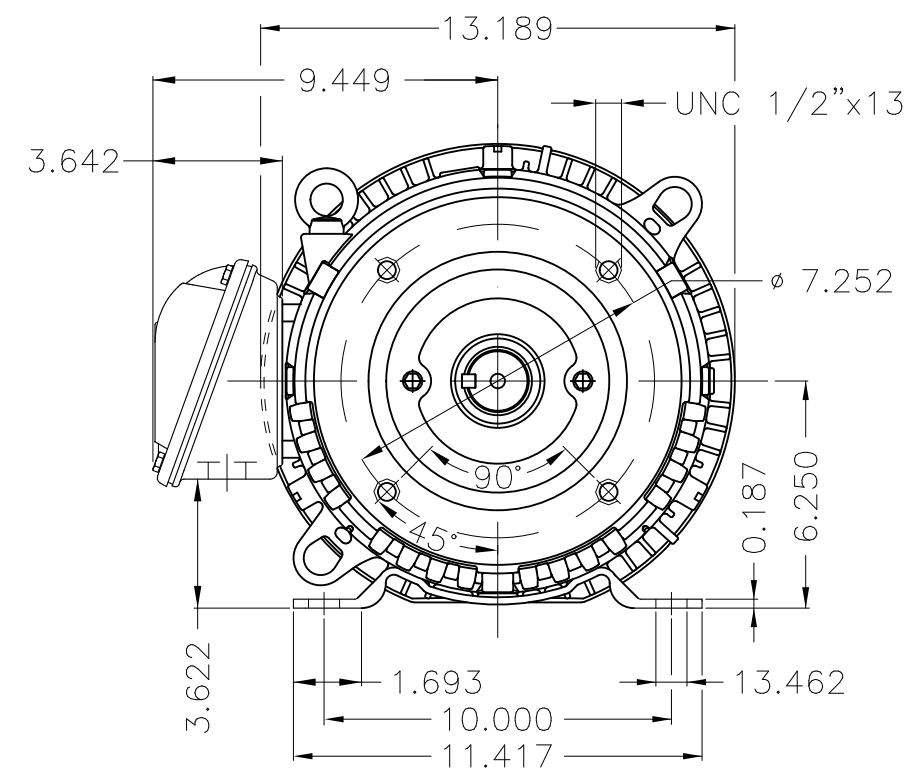
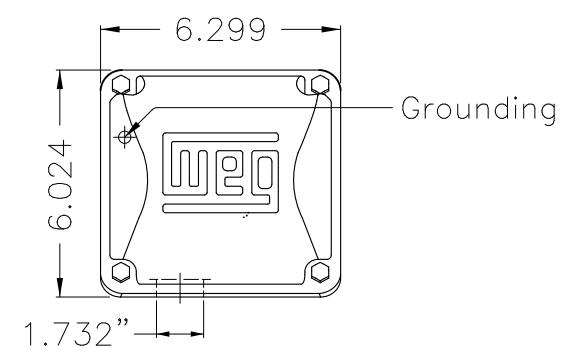
Rated current : 13.9 A  
 LRC : 6.8  
 Rated torque : 22.3 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 300 %  
 Rated speed : 3525 rpm

Moment of inertia (J) : 0.8718 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
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1 2 3 4 5 6

A  
B  
C  
D  
E



EUNC 1/2"-13 WEG WPR-7309

Internal AEGIS ground ring on the DE  
 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	PIRBUSER	THREE PH. MOTOR ROLLED STEEL CLOSE COUPLED PUMP JN TYPE PSE 1/2"					
CHECKED		FRAME 254/6JM IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	WDD			

15 HP 02 Poles 60 Hz

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Dimensions in inches XME A3