

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase Product code : 14490328  
Catalog # : 06036OT3E326JP-W40

Frame	: 324/6JP	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 60 HP (45 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 142/71.0 A	Protection degree	: IP23
L. R. Amperes	: 895/447 A	Cooling method	: IC01 - ODP
LRC	: 6.3x(Code G)	Mounting	: F-1
No load current	: 40.0/20.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3560 rpm	Noise level <sup>2</sup>	: 75.0 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 88.5 ft.lb	Approx. weight <sup>3</sup>	: 489 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 3.82 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	91.7	92.4	93.0	93.6	Max. traction
Power Factor	0.51	0.73	0.82	0.85	Max. compression

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6312 Z C3	6211 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	19658 h	20000 h
Lubricant amount	:	21 g	11 g
Lubricant type	:	Mobil Polyrex EM	

Notes  
USABLE @208V 157A SF 1.15 SFA 181A

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		Page Revision 1 / 6		
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Date	10/04/2020			

# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage

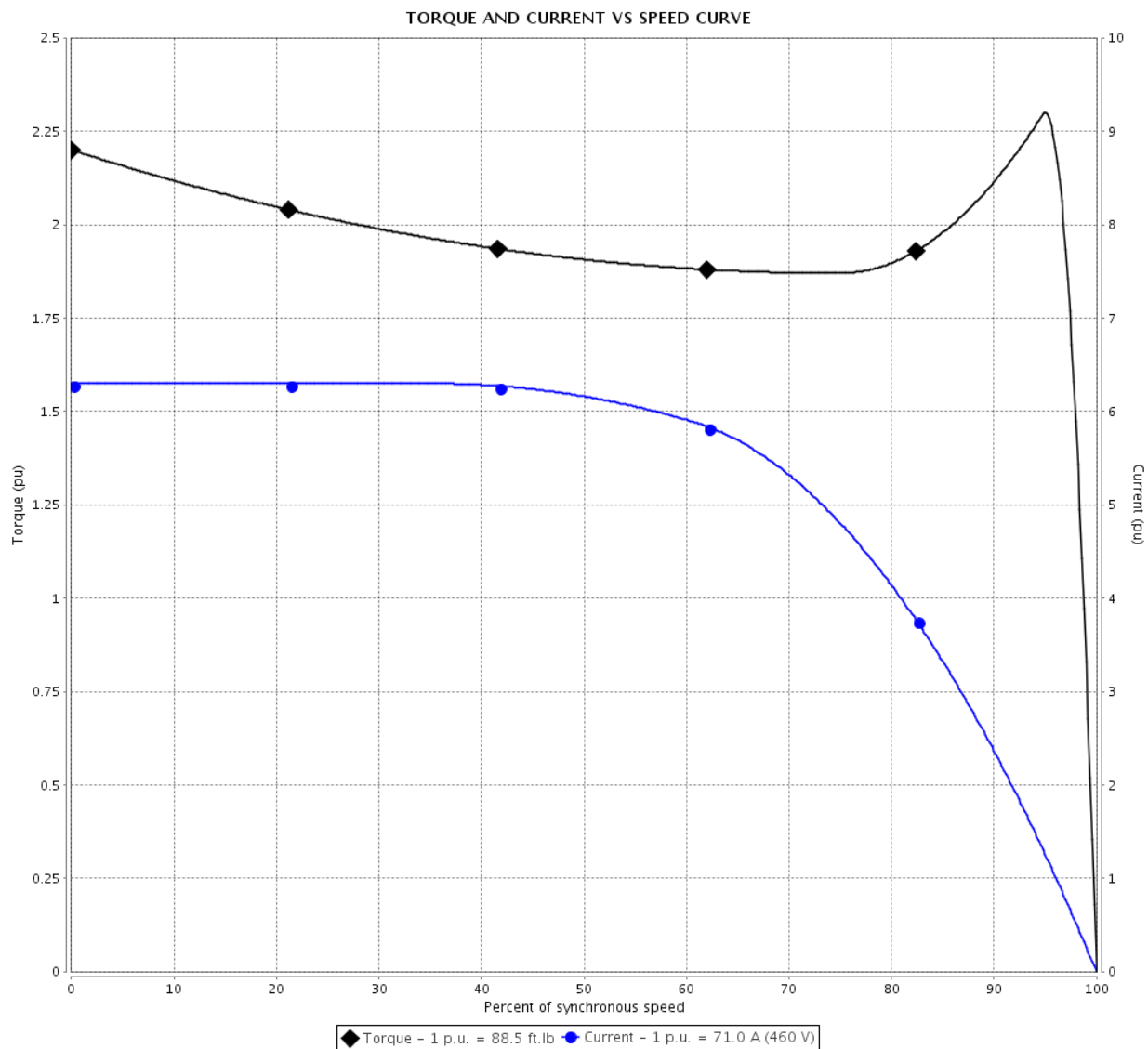


Customer :

Product line : W40 JP Pump NEMA Premium  
Efficiency Three-Phase

Product code : 14490328

Catalog # : 06036OT3E326JP-W40



Performance : 230/460 V 60 Hz 2P

Rated current : 142/71.0 A  
LRC : 6.3  
Rated torque : 88.5 ft.lb  
Locked rotor torque : 220 %  
Breakdown torque : 229 %  
Rated speed : 3560 rpm

Moment of inertia (J) : 3.82 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

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

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Checked by				
Date	10/04/2020			

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

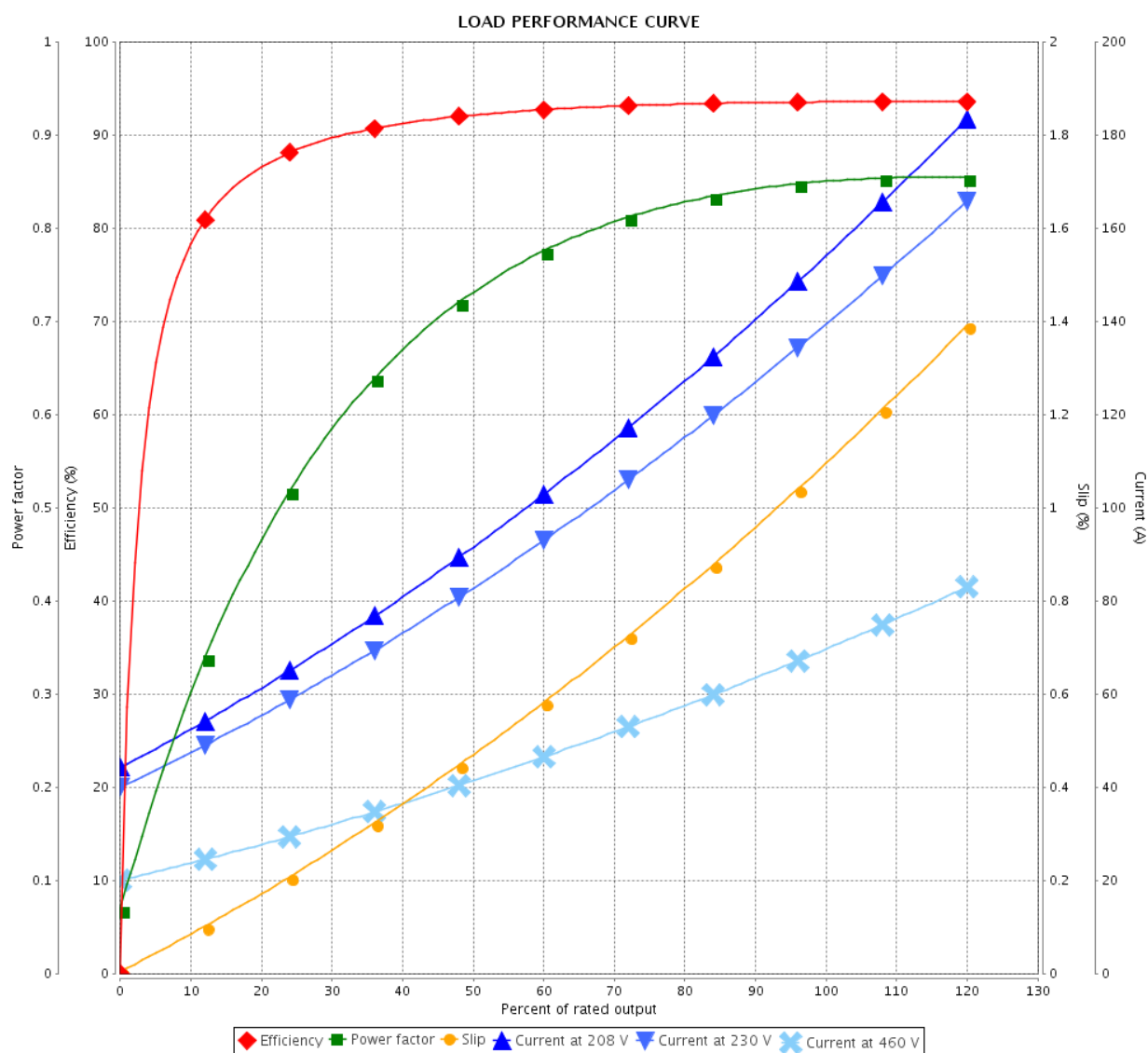


Customer :

Product line : W40 JP Pump NEMA Premium  
Efficiency Three-Phase

Product code : 14490328

Catalog # : 06036OT3E326JP-W40



Performance : 230/460 V 60 Hz 2P

Rated current : 142/71.0 A  
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Temperature rise : 80 K  
Design : B

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# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



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Efficiency Three-Phase

Product code : 14490328

Catalog # : 06036OT3E326JP-W40

Performance : 230/460 V 60 Hz 2P

Rated current : 142/71.0 A  
LRC : 6.3  
Rated torque : 88.5 ft.lb  
Locked rotor torque : 220 %  
Breakdown torque : 229 %  
Rated speed : 3560 rpm

Moment of inertia (J) : 3.82 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

Rev.

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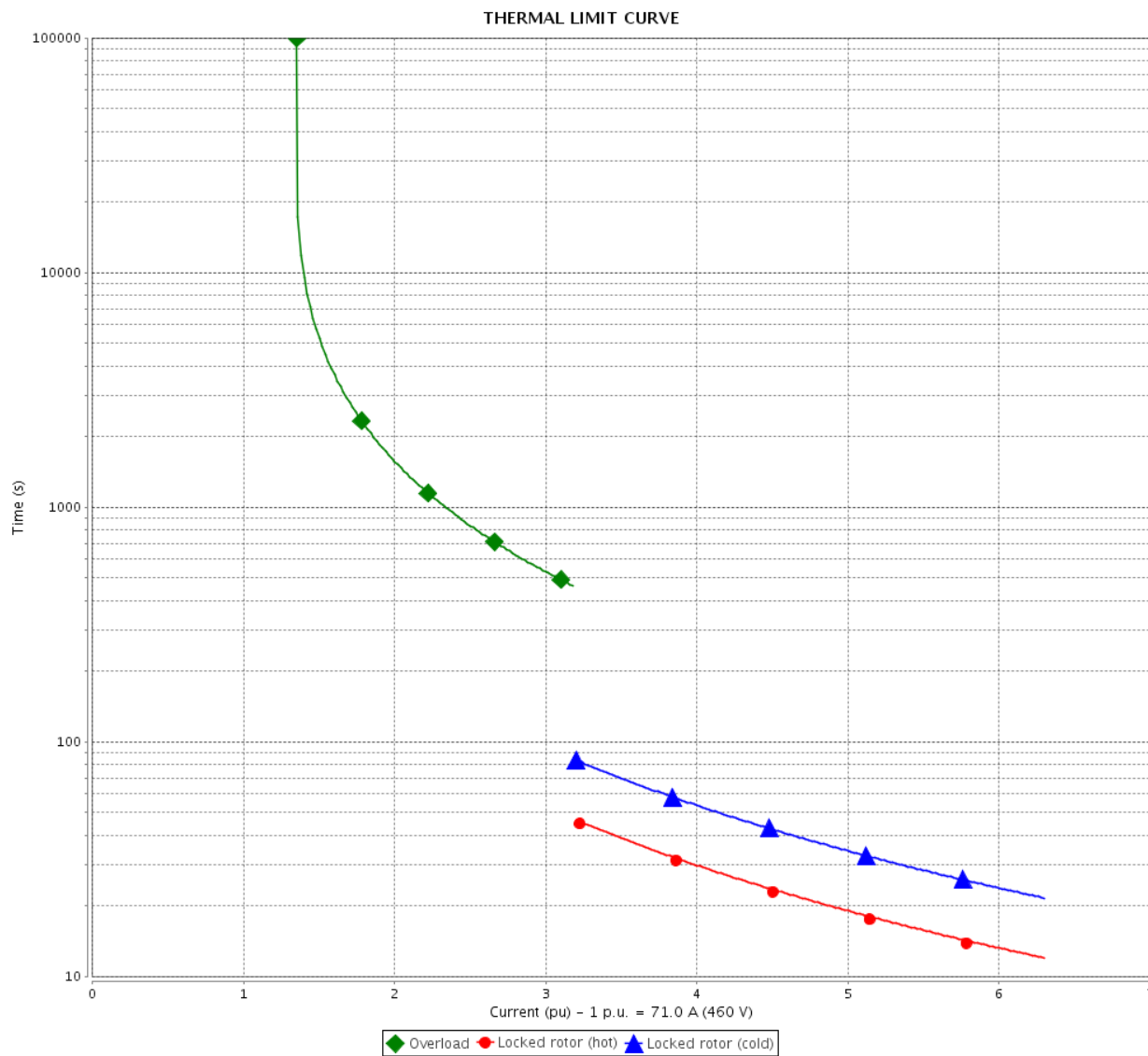
Revision

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

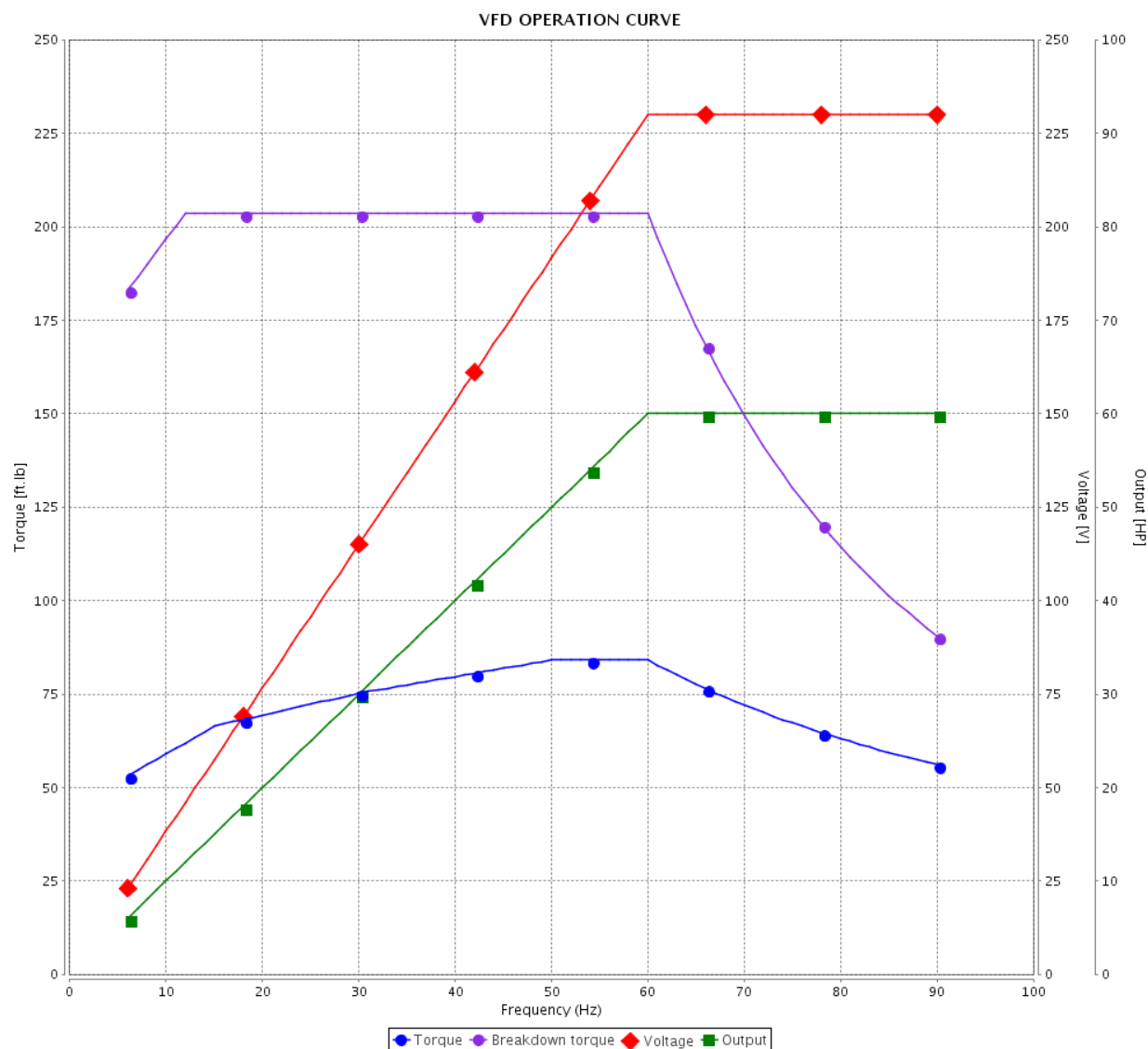


Customer :

Product line : W40 JP Pump NEMA Premium  
Efficiency Three-Phase

Product code : 14490328

Catalog # : 06036OT3E326JP-W40

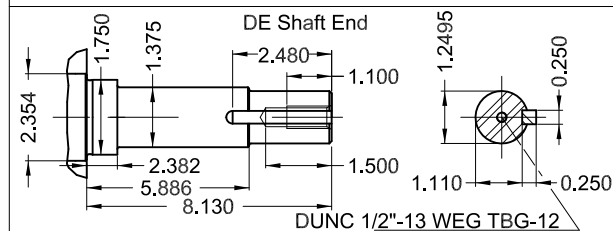
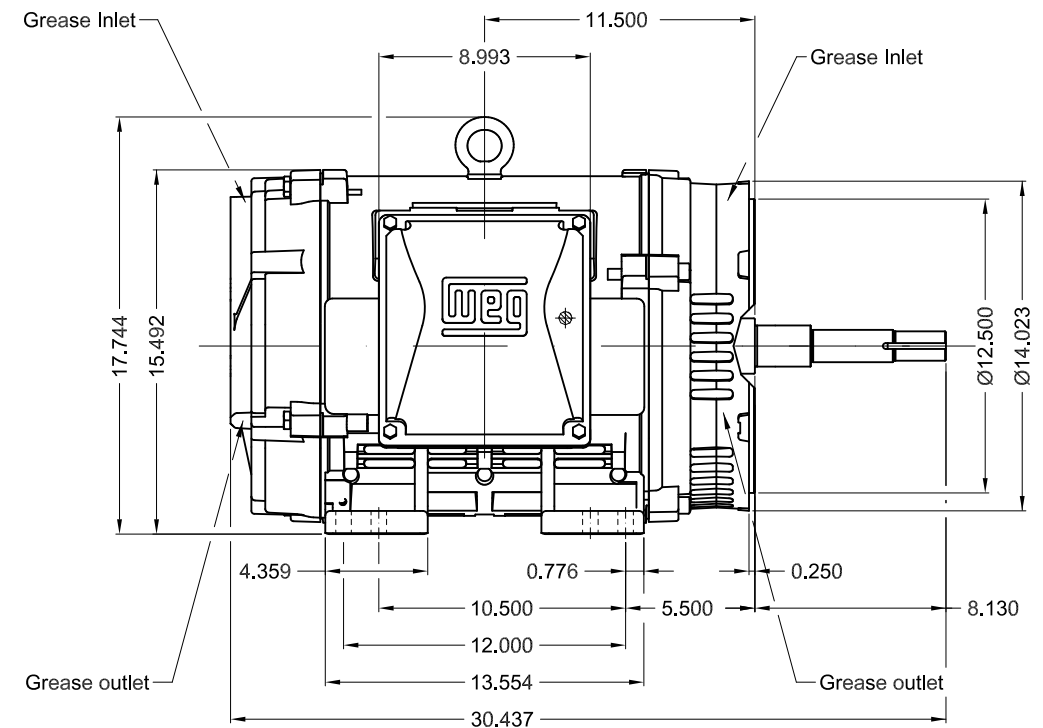
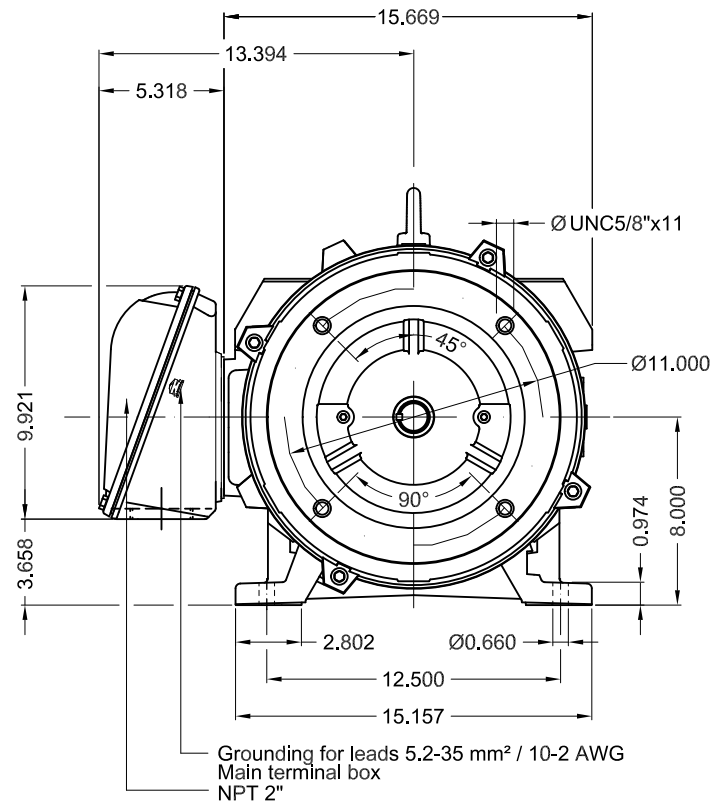


Performance : 230/460 V 60 Hz 2P

Rated current : 142/71.0 A  
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Rated torque : 88.5 ft.lb  
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Breakdown torque : 229 %  
Rated speed : 3560 rpm

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Service factor : 1.25  
Temperature rise : 80 K  
Design : B



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Color RAL 5009  
Painting plan 203A  
Mounting NEMA F-1  
Mounting B34R(D)

60 HP 02 Poles 60Hz

Dimensions in inches

ECM		LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER	
EXECUTED		PIRWBUSER		THREE PHASE W40 MOTOR NEMA PREMIUM EFF				PREVIEW				
CHECKED				FRAME 324/6JP IP23 ODP								
RELEASED												
REL DT.			WMO	Jaragua do Sul		Product Engineering		SHEET	1	/ 1		



MODEL 060360T3E326JP-W40  
MADE IN BRAZIL  
14490328

**WEG** **W40 NEMA**  
**CC029A Premium**  
*Inverter Duty Motor*

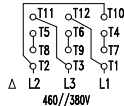
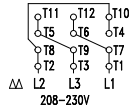


IEC 60034-1  
MOD.T01#FOXON



For 60Hz use on PWM, VT 1000:1, CT 3:1, 1.0SF

PH 3	FR 324/6JP	HP(kW) 60.0(45.0)	Hz 60
V 230/460	A 142/71.0	RPM 3560	DES B
NEMA NOM EFF 93.6 %	INS. CL. F $\Delta$ T 80 K	IP23	
ENCL ODP	DUTY CONT.	AMB. 40°C	
CODE G	PF 0.85	SF 1.25	SFA 178/88.8
USABLE @208V 157 A	SF 1.15	SFA 181	
50HP 37kW 50Hz 380V 69.8A 2960RPM SF1.00 EFF 93.7% (IE3)			



→ 6312-Z-C3  
→ 6211-Z-C3

MOBIL POLYREX EM  
21 g 19658 h

ALT 1000 m.a.s.l. 489 Lbs