

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	: Dealers Industrial Equipment 800-469-3110					
Customer reference	: 02036OP3EFP254T-W40					
Product line	: W40 High Efficiency Three-Phase	Product code :	14490506			
		Catalog # :	02036OP3EFP254T-W40			
Frame	: 254T	Locked rotor time	: 28s (cold) 16s (hot)			
Output	: 20 HP (15 kW)	Temperature rise	: 80 K			
Poles	: 2	Duty cycle	: Cont.(S1)			
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C			
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.			
Rated current	: 53.7-48.6/24.3 A	Protection degree	: IP23			
L. R. Amperes	: 317-287/143 A	Cooling method	: IC01 - ODP			
LRC	: 5.9x(Code G)	Mounting	: F-1			
No load current	: 14.0-16.2/8.10 A	Rotation ¹	: Both (CW and CCW)			
Rated speed	: 3530 rpm	Starting method	: Direct On Line			
Slip	: 1.94 %	Approx. weight ³	: 207 lb			
Rated torque	: 29.4 ft.lb					
Locked rotor torque	: 170 %					
Breakdown torque	: 240 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.8718 sq.ft.lb					
Design	: B					
Output	25%	50%	75%	100%		
Efficiency (%)	89.3	89.5	90.2	90.2		
Power Factor	0.51	0.77	0.85	0.86		
				Foundation loads		
				Max. traction		
				Max. compression		
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6309 Z C3		6209 Z C3		
Sealing	:	Without Bearing Seal		Without Bearing Seal		
Lubrication interval	:	20000 h		20000 h		
Lubricant amount	:	13 g		9 g		
Lubricant type	:	Mobil Polyrex EM				
Notes downloaded from http://dealerselectric.com						
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	14/04/2019				1 / 2	

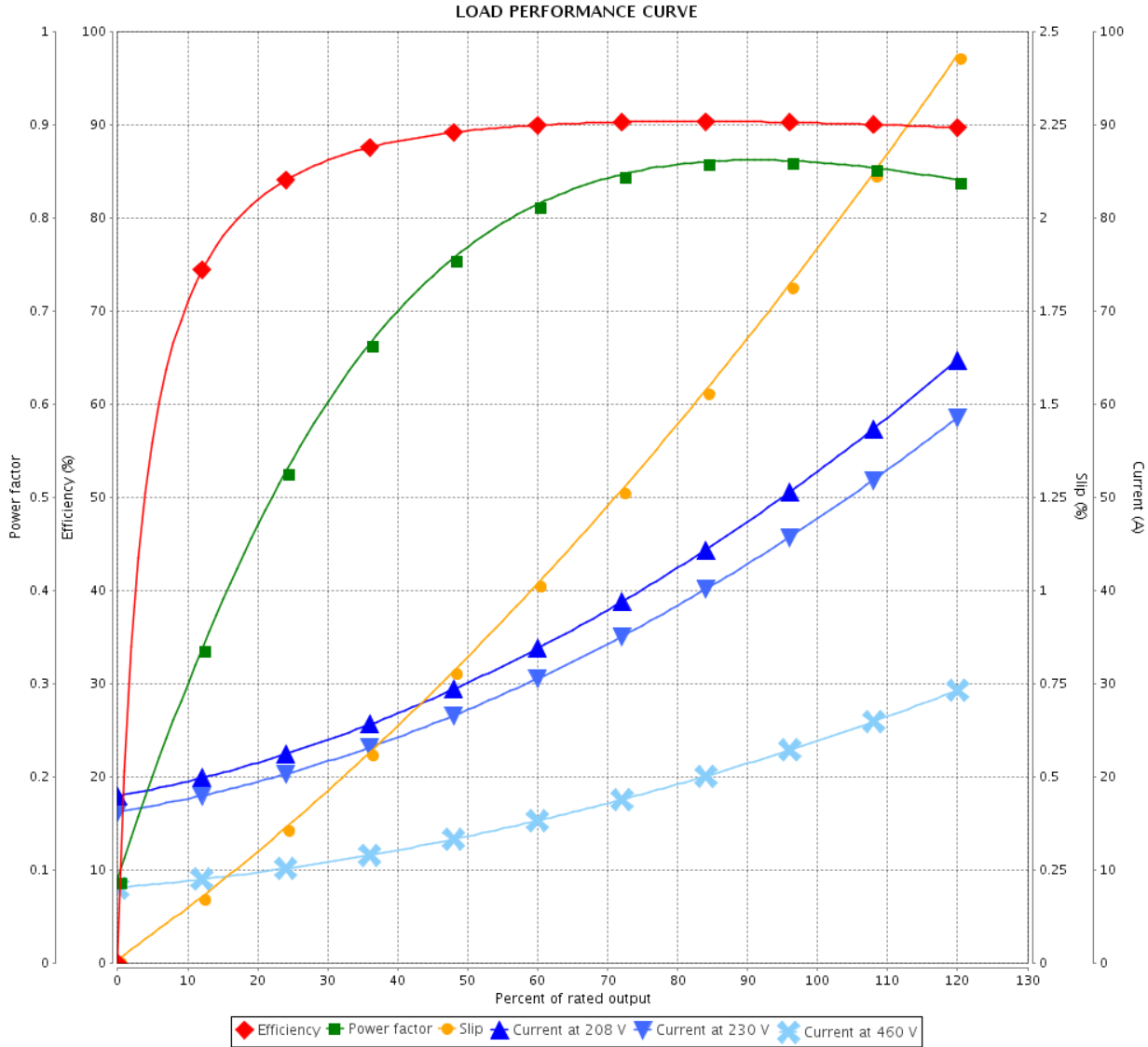
LOAD PERFORMANCE CURVE



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Performance : 208-230/460 V 60 Hz 2P

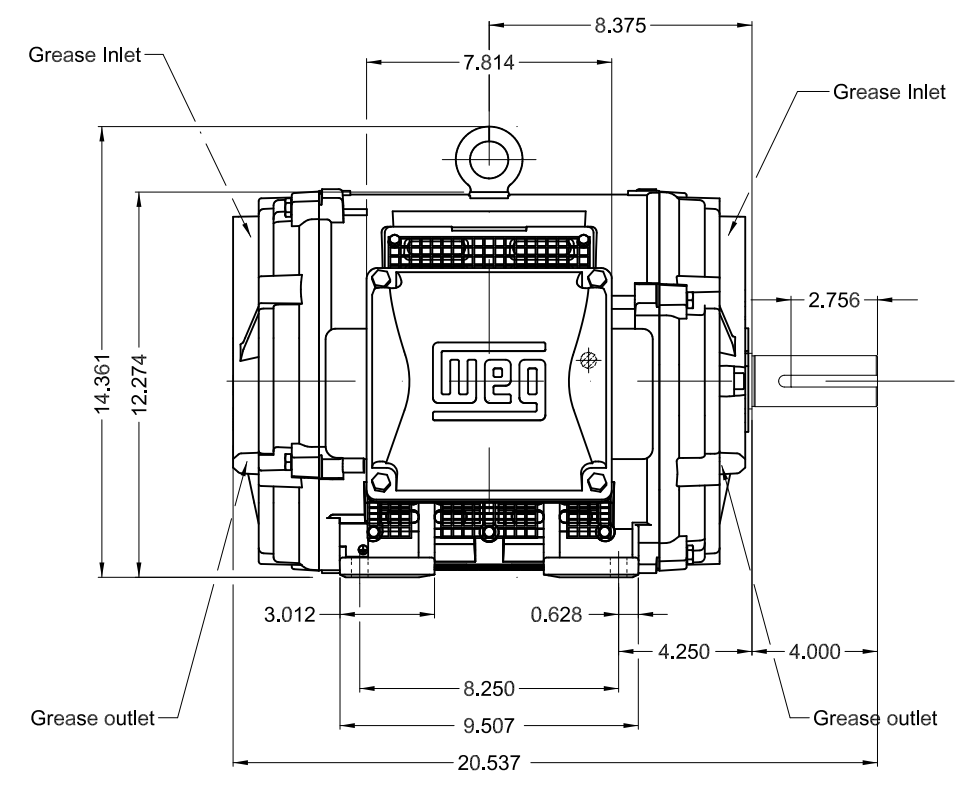
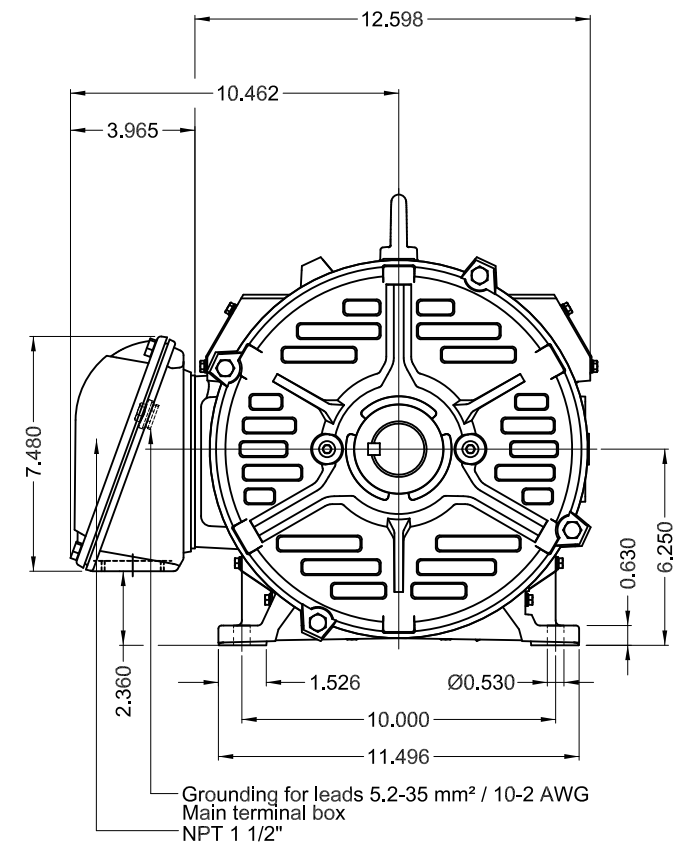
Rated current : 53.7-48.6/24.3 A
 LRC : 5.9
 Rated torque : 29.4 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 240 %
 Rated speed : 3530 rpm

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		2 / 2		
Date		14/04/2019		

Dimensões em polegada
Dimensions in inches

THIS IS AN UPDATED REVISION, THE
PREVIOUS ONE MUST BE DISREGARDED.



Color RAL 3002										
Painting plan 203A										
Mounting B3R(D)										
								SCALE	1:6	
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN	THREE PHASE W40 MOTOR HIGH EFF								
CHECKED		FRAME 254T IP23 ODP								
RELEASED		WEG code: 14490506								
REL DT	14.04.2019	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1				

20 HP 02 Poles 60Hz

A

