

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : Dealers Industrial Equipment 800-469-3110
Customer reference : 02036OP3EFP254TC-W40

Product line : W40 High Efficiency Three-Phase Product code : 14788715
Catalog # : 02036OP3EFP254TC-W40

Frame	: 254TC	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	: 238 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	50%	75%	100%	Foundation loads
Efficiency (%)	89.5	90.2	90.2	Max. traction
Power Factor	0.77	0.85	0.86	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				
Date	22/04/2019			

Page 1 / 2
Revision

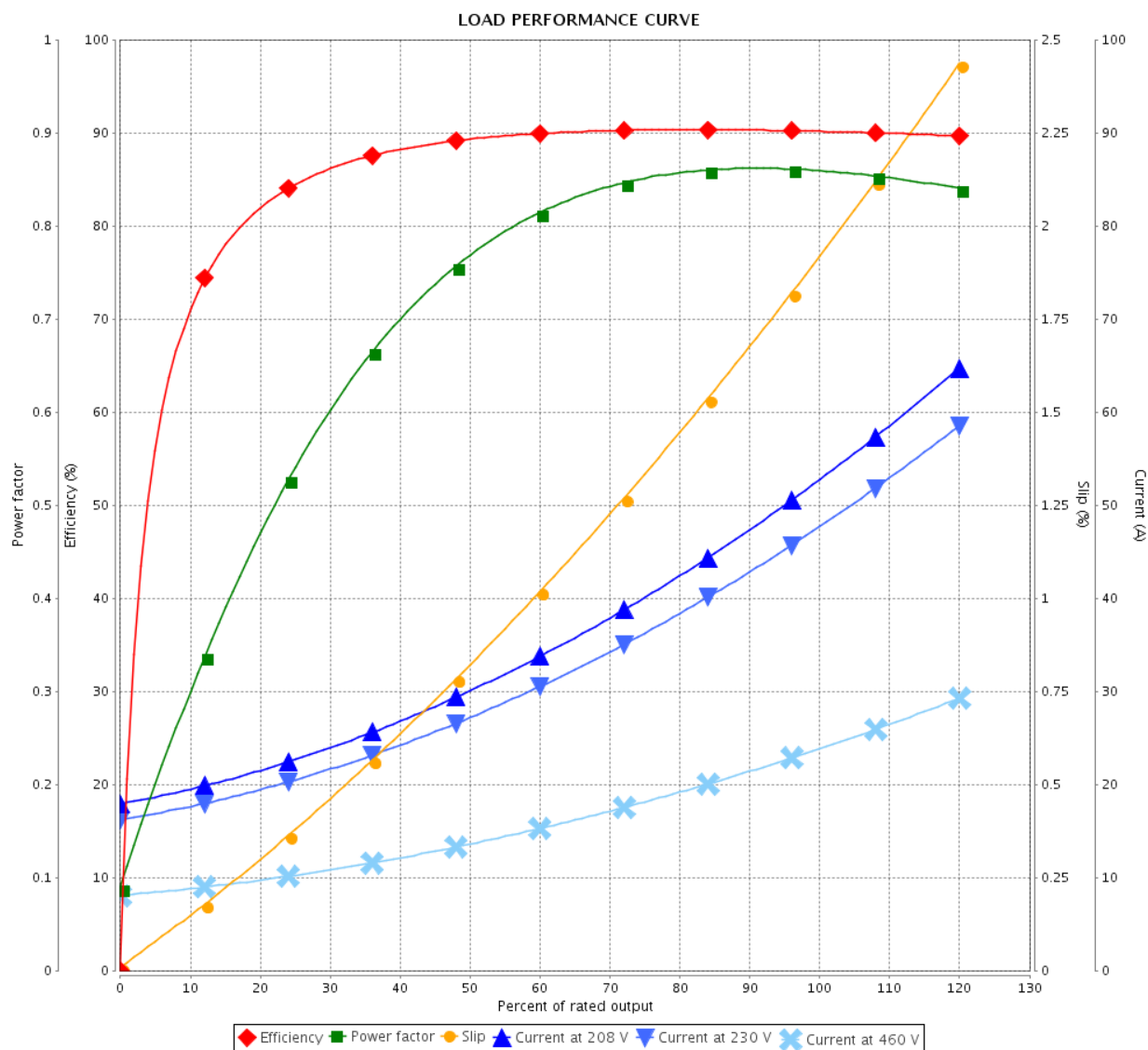
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : Dealers Industrial Equipment 800-469-3110
Customer reference : 02036OP3EFP254TC-W40

Product line : W40 High Efficiency Three-Phase Product code : 14788715
Catalog # : 02036OP3EFP254TC-W40



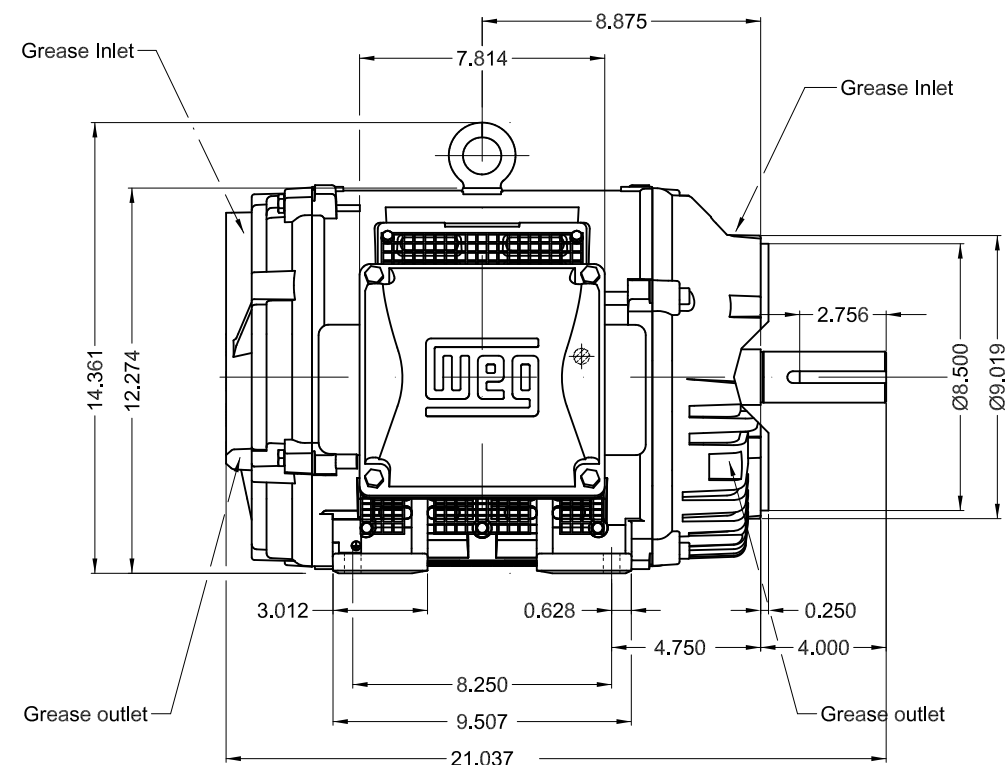
Performance : 208-230/460 V 60 Hz 2P

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					

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



1:6

ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN		THREE PHASE W40 MOTOR HIGH EFF					
CHECKED			FRAME 254TC IP23 ODP					
RELEASED			WEG code: 14788715					
REL DT	22.04.2019	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

20 HP 02 Poles 60Hz

A

WEG's property. Forbidden reproduction without previous authorization.

ZMF A3