

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : Dealers Industrial Equipment 800-469-3110
Customer reference : 02036OP3VFP254TC-W40

Product line : W40 High Efficiency Three-Phase Product code : 14788748
Catalog # : 02036OP3VFP254TC-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	: 200/400 V	Altitude	: 1000 m.a.s.l.
Rated current	: 55.9/27.9 A	Protection degree	: IP23
L. R. Amperes	: 330/165 A	Cooling method	: IC01 - ODP
LRC	: 5.9x(Code G)	Mounting	: F-1
No load current	: 18.6/9.32 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

	Drive end	Non drive end
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			

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Revision

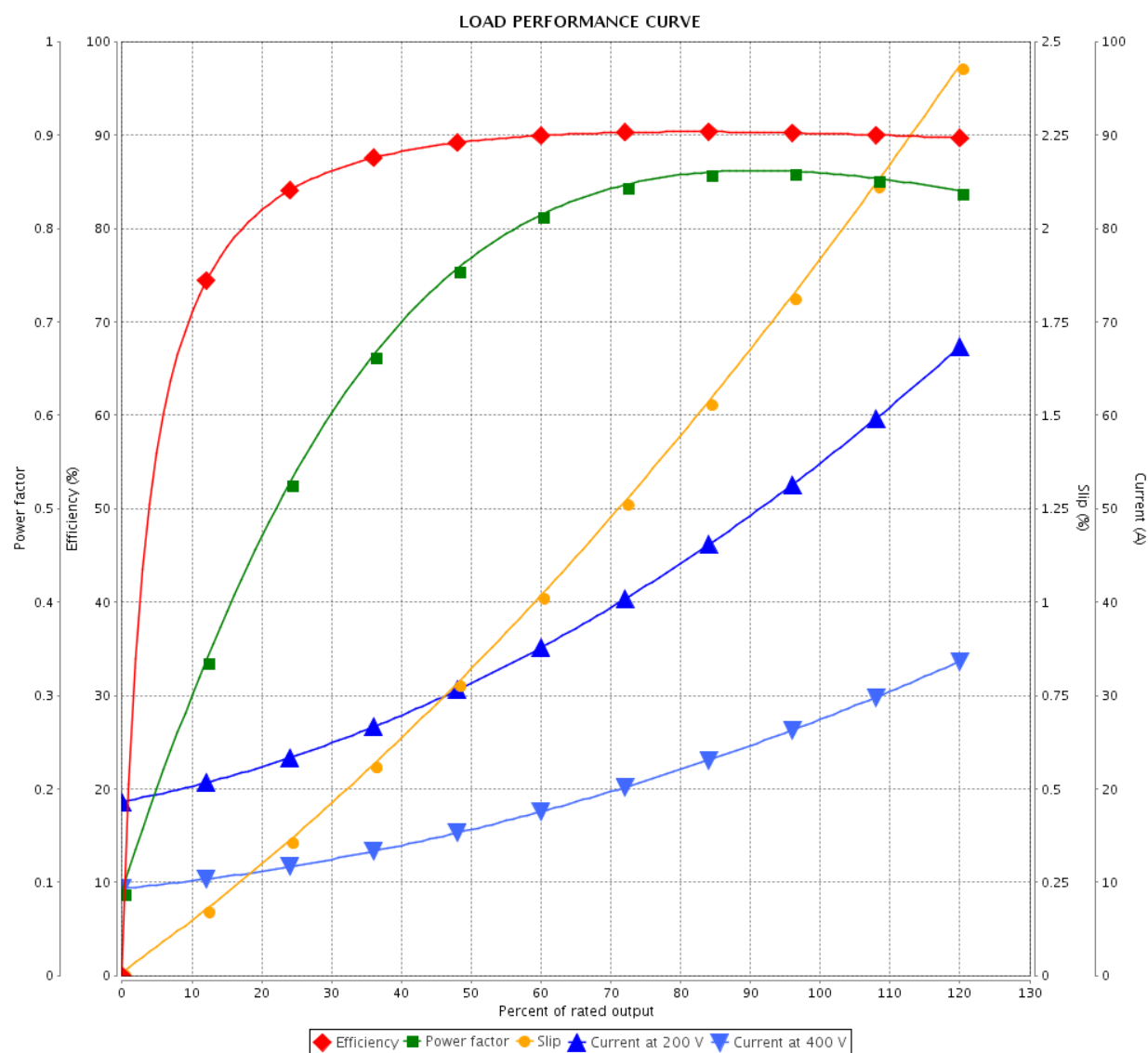
LOAD PERFORMANCE CURVE

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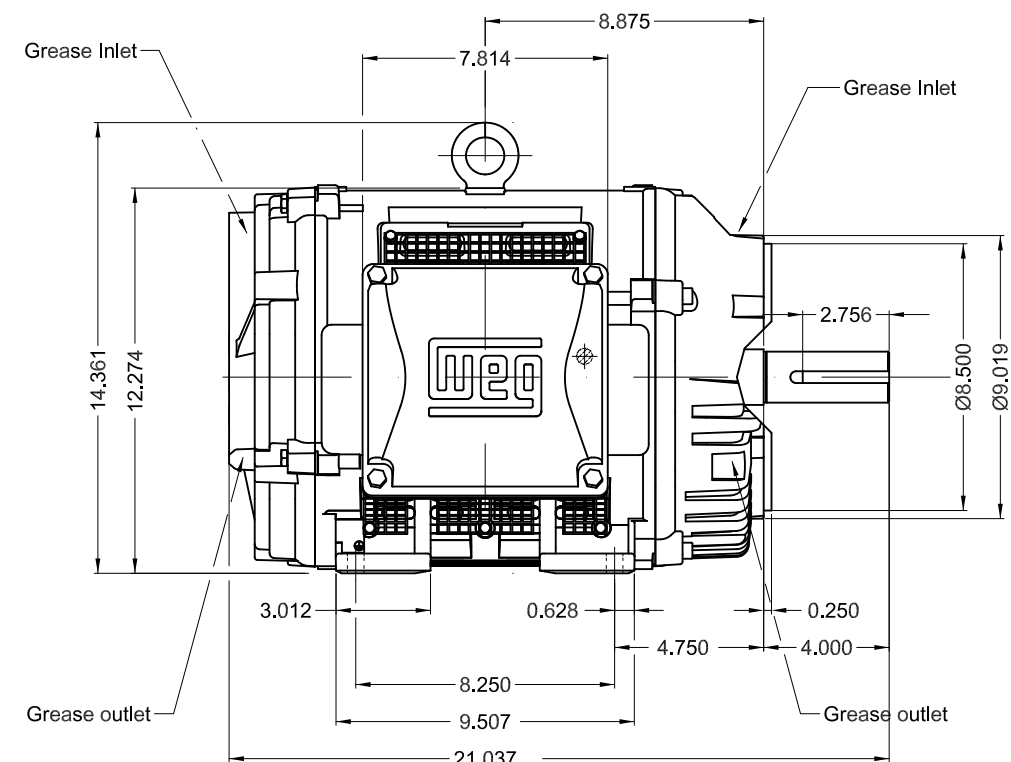
Performance : 200/400 V 60 Hz 2P

Rated current : 55.9/27.9 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
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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: 14788748					
REL DT	22.04.2019	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

20 HP 02 Poles 60Hz

A

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ZMF A3