

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : Dealers Industrial Equipment 800-469-3110
Customer reference : 14832515

Product line : W40 JM Pump High Efficiency Three-Phase
Product code : 14832515
Catalog # : 05036OP3VFP324JMV-W4

Frame	: 324/6JM	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 50 HP (37 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	: 134/67.2 A	Protection degree	: IP23
L. R. Amperes	: 779/390 A	Cooling method	: IC01 - ODP
LRC	: 5.8x(Code F)	Mounting	: W-6
No load current	: 38.9/19.4 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3555 rpm	Starting method	: Direct On Line
Slip	: 1.25 %	Approx. weight ³	: 450 lb
Rated torque	: 72.9 ft.lb		
Locked rotor torque	: 170 %		
Breakdown torque	: 200 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 3.01 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	91.5	91.7	92.4	92.4	Max. traction
Power Factor	0.54	0.78	0.84	0.86	Max. compression

	Drive end	Non drive end
Bearing type	: 6312 Z C3	: 6211 Z C3
Sealing	: Without Bearing Seal	: Without Bearing Seal
Lubrication interval	: 9829 h	: 14226 h
Lubricant amount	: 21 g	: 11 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	16/04/2019			
		Page		Revision
		1 / 2		

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

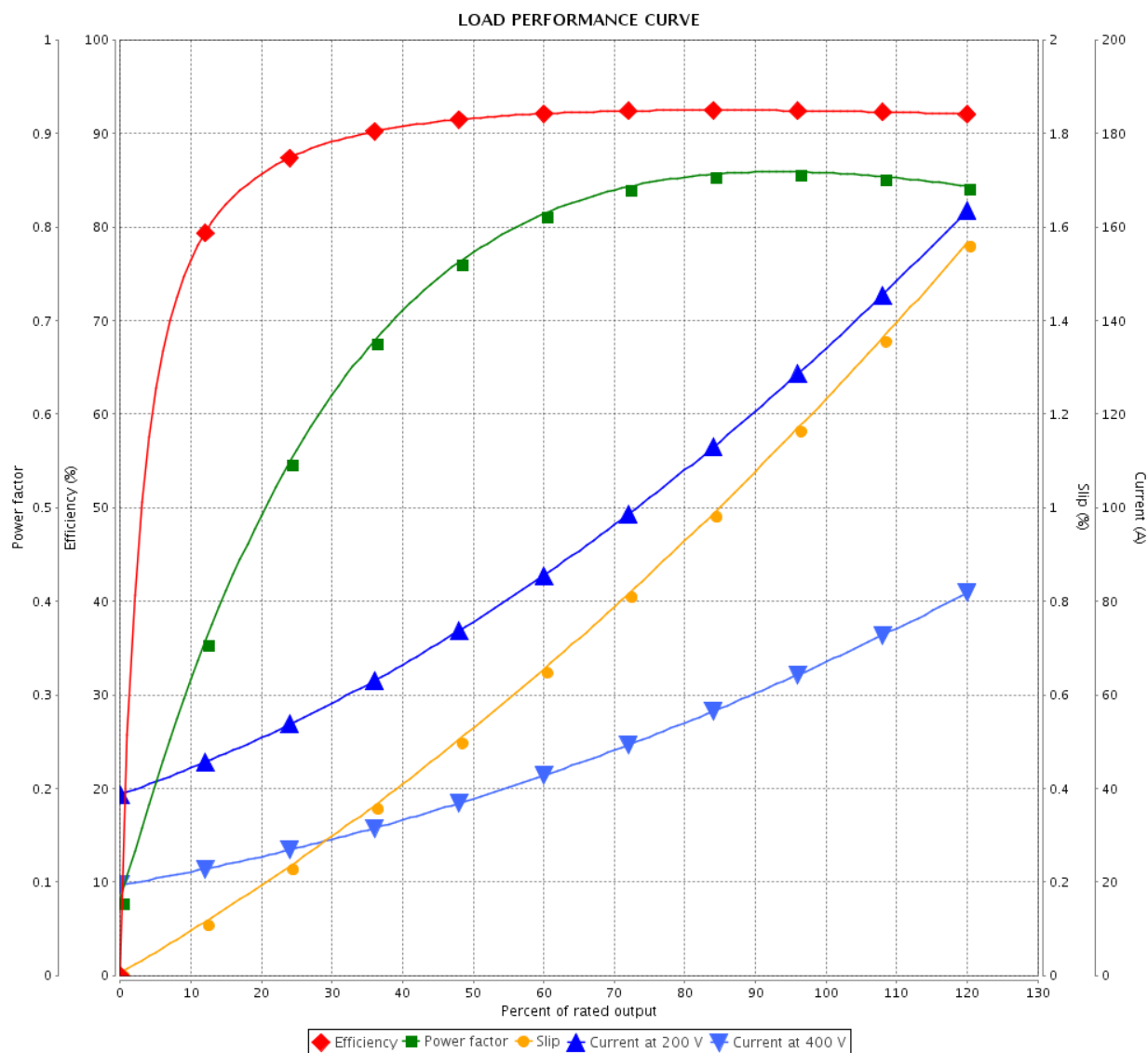


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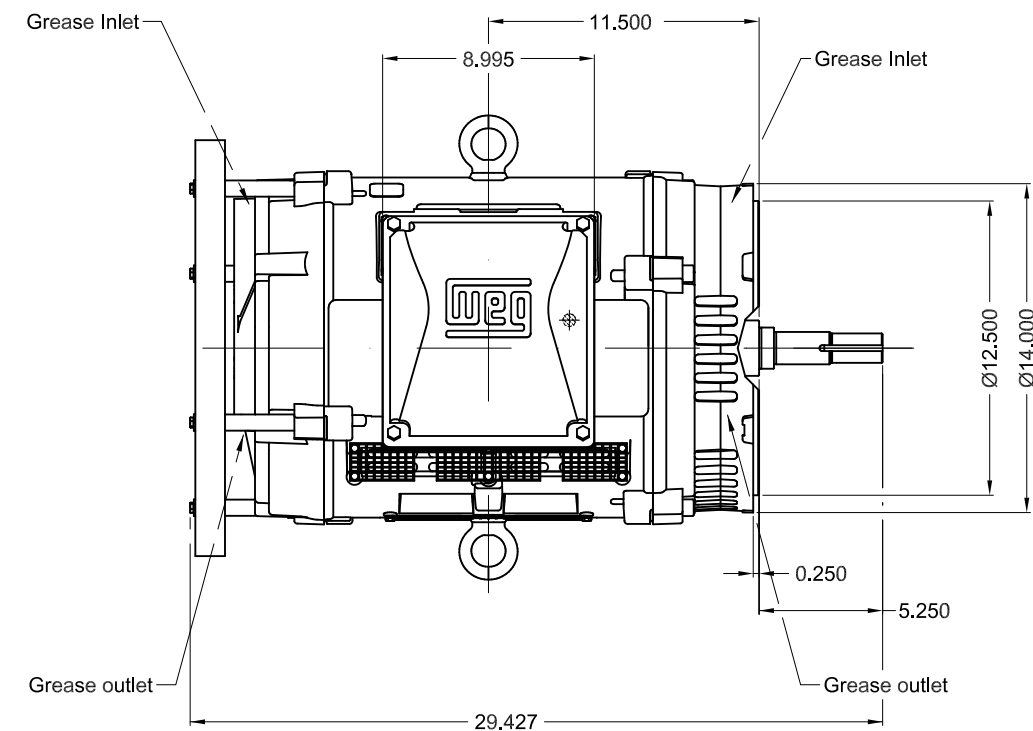
Performance : 200/400 V 60 Hz 2P

Rated current : 134/67.2 A
LRC : 5.8
Rated torque : 72.9 ft.lb
Locked rotor torque : 170 %
Breakdown torque : 200 %
Rated speed : 3555 rpm



Moment of inertia (J) : 3.01 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 2 / 2Revision		
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Date	16/04/2019			

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



SCALE	1:8
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ECM		LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED		USERADMIN		THREE PHASE W40 MOTOR HIGH EFF							
CHECKED				FRAME 324/6JM IP23 ODP							
RELEASED				CLOSE COUPLED PUMP JM TYPE W							
REL DT		16.04.2019	WMO	Jaragua do Sul		Product Engineering		SHEET	1 / 1		

50 HP 02 Poles 60Hz

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ZME A3