

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer : Dealers Industrial Equipment 800-469-3110  
Customer reference : 05036OP3EFP324TSC-W4

Product line : W40 High Efficiency Three-Phase Product code : 14492088  
Catalog # : 05036OP3EFP324TSC-W4

Frame	: 324TSC	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 50 HP (37 kW)	Temperature rise	: 105 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	: 128-117/58.4 A	Protection degree	: IP23
L. R. Amperes	: 741-677/339 A	Cooling method	: IC01 - ODP
LRC	: 5.8x(Code F)	Mounting	: F-1
No load current	: 29.1-33.8/16.9 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3555 rpm	Starting method	: Direct On Line
Slip	: 1.25 %	Approx. weight <sup>3</sup>	: 441 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	: 19658 h	: 20000 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	14/04/2019			

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Revision

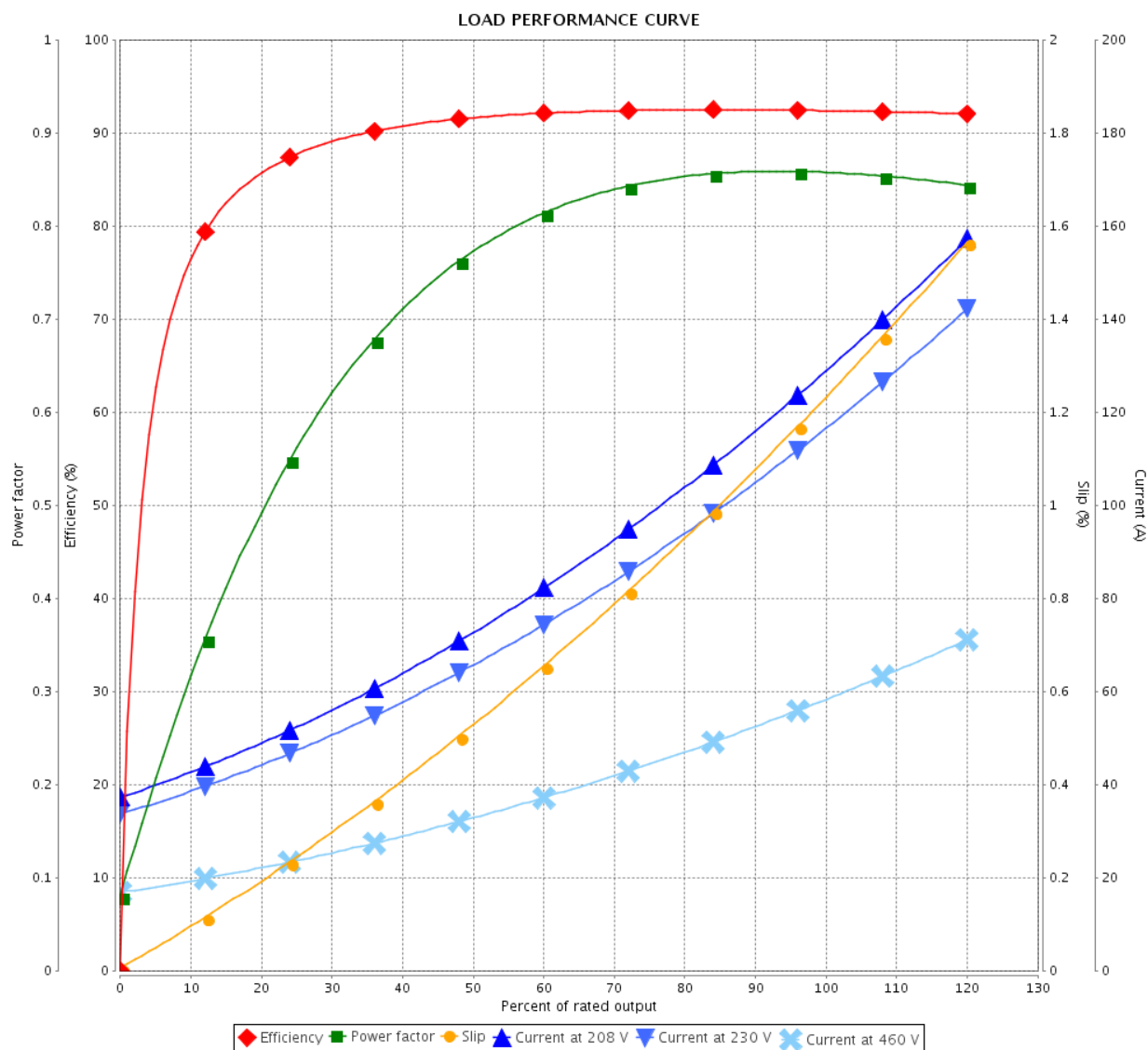
# LOAD PERFORMANCE CURVE

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

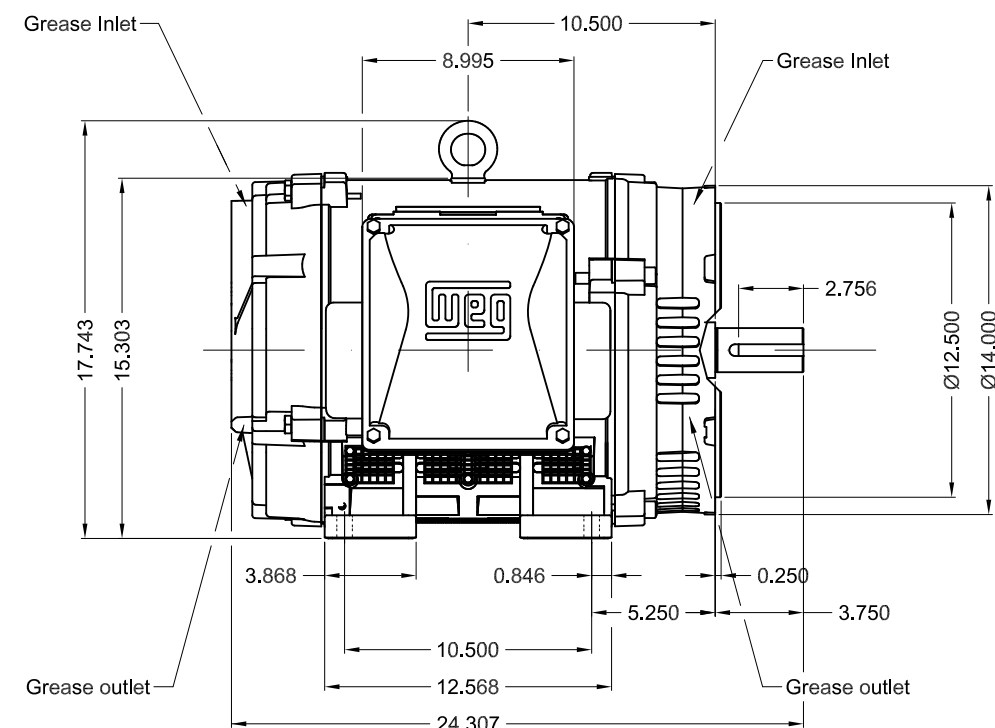
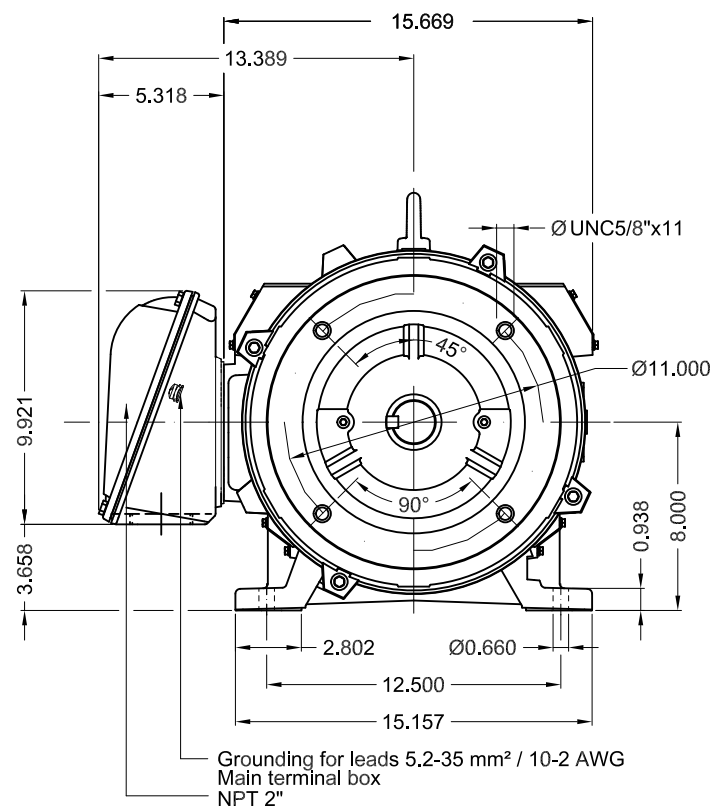
Rated current : 128-117/58.4 A  
LRC : 5.8  
Rated torque : 72.9 ft.lb  
Locked rotor torque : 170 %  
Breakdown torque : 200 %  
Rated speed : 3555 rpm

Moment of inertia (J) : 3.01 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 105 K  
Design : B

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Dimensões em polegada  
Dimensions in inches

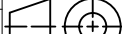

THIS IS AN UPDATED REVISION, THE  
PREVIOUS ONE MUST BE DISREGARDED.



Color RAL 3002

Painting plan 203A

Mounting B34R(D)

							SCALE	1:8		
ECM		LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED		USERADMIN		THREE PHASE W40 MOTOR HIGH EFF						
CHECKED				FRAME 324TSC IP23 ODP						
RELEASED				WEG code: 14492088						
REL DT		14.04.2019	WMO	Jaraguá do Sul		Product Engineering	SHEET	1 / 1		

50 HP      02 Poles      60Hz

A

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