

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer : Dealers Industrial Equipment 800-469-3110  
Customer reference : 05036OP3EFP324TS-W40

Product line : W40 High Efficiency Three-Phase Product code : 14490989  
Catalog # : 05036OP3EFP324TS-W40

Frame	: 324TS	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>	: 425 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.

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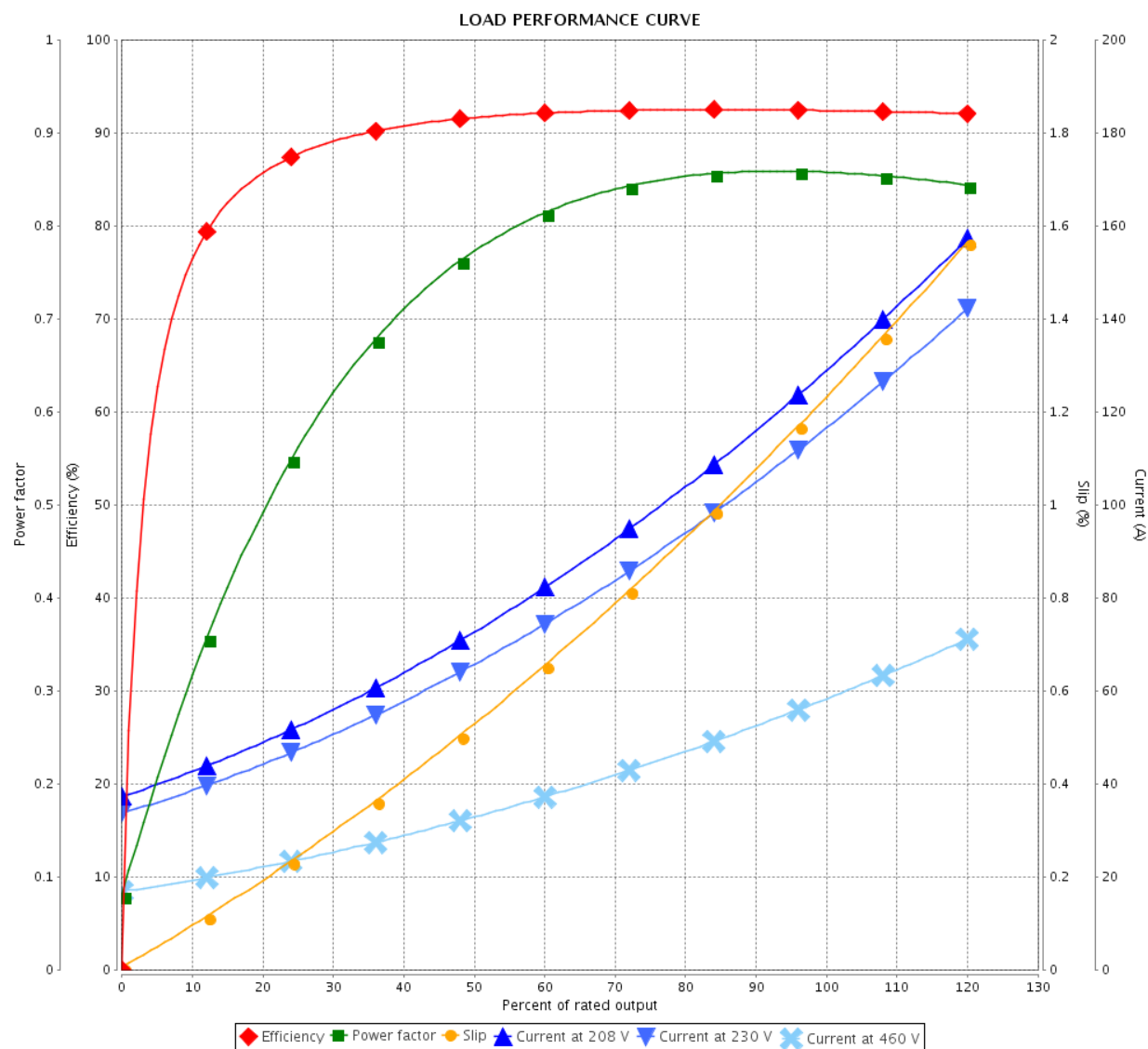
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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Customer reference : 05036OP3EFP324TS-W40

Product line : W40 High Efficiency Three-Phase Product code : 14490989  
Catalog # : 05036OP3EFP324TS-W40



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

Rev.	Changes Summary		Performed	Checked	Date
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