

DATA SHEETPRELIMINARY
DOCUMENT**Single Phase Induction Motor - Squirrel Cage**

Customer :

Product line : W01 - TEFC - Premium Efficiency (DOE)
Product code : 14813759

Frame	: 56	Locked rotor time	: 9 s (hot) 16 s (cold)
Output	: 2 HP (1.5 kW)	Duty cycle	: S1
Poles	: 2	Ambient temperature	: -20 °C to +40 °C
Frequency	: 60 Hz	Altitude	: 1000 m.a.s.l
Rated voltage	: 115/208-230 V	Protection degree	: IP55
Rated current	: 16.3/9.00-8.15 A	Cooling method	: IC411 - TEFC
L. R. Amperes	: 135/67.6 A	Mounting	: F-1/B14R(D)
LRC	: 8.3 Code J	Rotation ¹	: Both
No load current	: 3.60/1.80 A	Noise level ²	: 68 dB(A)
Rated speed	: 3500 rpm	Starting method	: Direct On Line
Slip	: 2.78 %	Approx. weight ³	: 17.0 kg
Rated torque	: 0.415 kgfm	Design	: L
Locked rotor torque	: 240 %		
Pull up torque	: 200 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0033 kgm ²		

Output	Start	50%	75%	100%	Load type	: -
Efficiency (%)	-	74.0	80.0	82.5	Load torque	: -
Power Factor	0.86	0.93	0.94	0.95	Load inertia (J=GD ² /4)	: -

Bearing type	Drive end	Non drive end	Foundation loads
Lubrication interval	6204-ZZ	6202-ZZ	Max. traction
Lubricant amount	-	-	Max. compression
Lubricant type	-	-	
	MOBIL POLYREX EM		

Notes:

Standards	Specification	: MG1 - Part 10	Vibration	:
	Test	: MG1 - Part 12	Tolerance	: MG1 - Part 12
	Noise	: MG1 - Part 9		

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 +0dB(A).

(3) Approximate weight, subject to be changed 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 1-12.

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LOAD PERFORMANCE CURVE

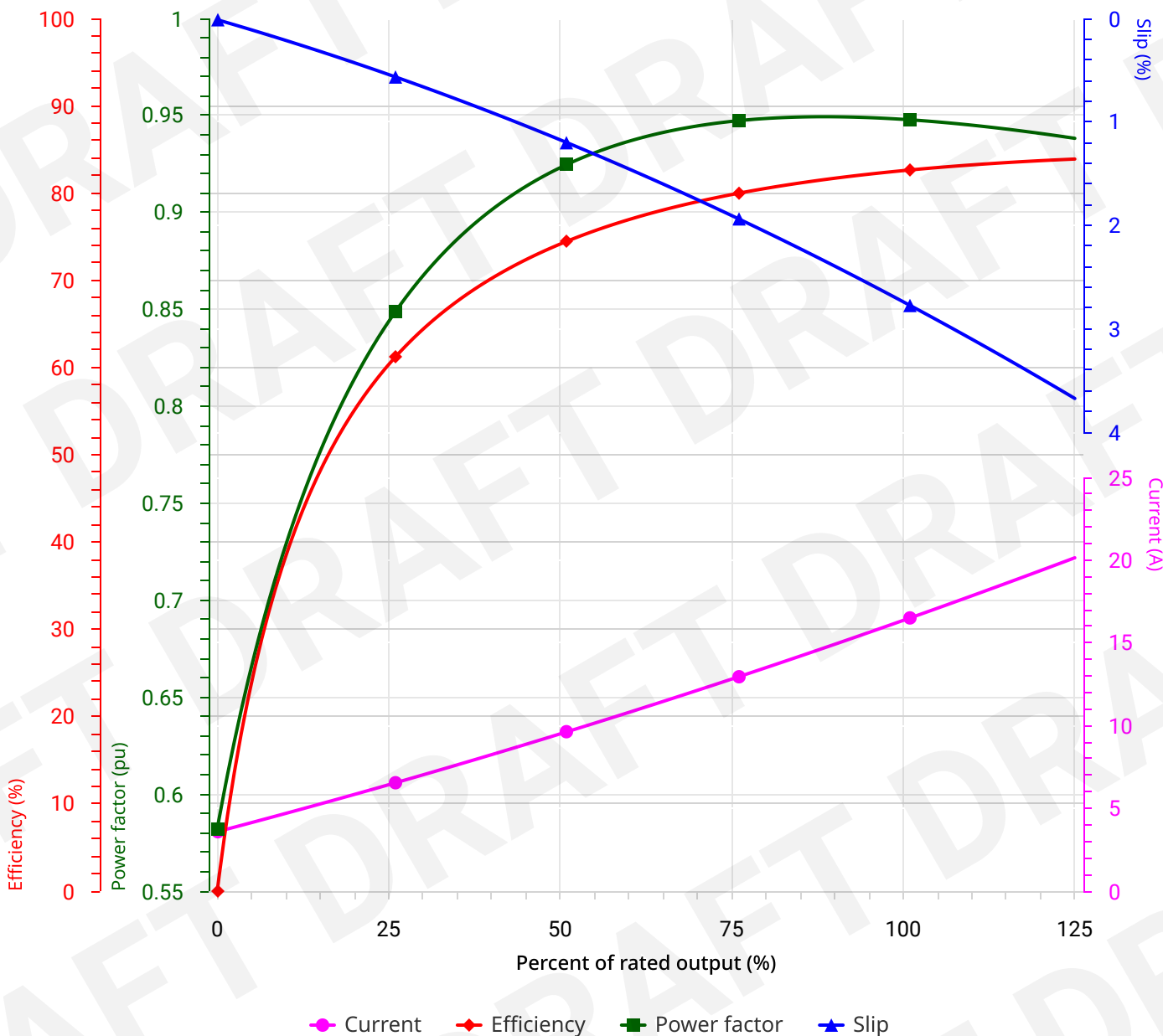
PRELIMINARY
DOCUMENT



Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W01 - TEFC - Premium Efficiency (DOE)
Product code : 14813759



Performance : 2 HP (1.5 kW) 115/208/230V 60Hz 2P 56

Rated current : 16.3/9.00/8.15 A
LRC : 8.3 Code J
Rated torque : 0.415 kgfm
Locked rotor torque : 240 %
Breakdown torque : 270 %
Rated speed : 3500 rpm

Moment of inertia (J) : 0.0033 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : L

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