

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer : WEG ELECTRIC CORPORATION - WEC

Product line : Special Motor

Frame	: 100L	Locked rotor time	: 9 s (hot) 16 s (cold)
Output	: 3 kW	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 230 V	Altitude	: 3280 ft
Rated current	: 16.4 A	Protection degree	: IP55
L. R. Amperes	: 115 A	Cooling method	: IC411 - TEFC
LRC	: 7.0	Mounting	: B35L(D)
No load current	: 3.80 A	Rotation ¹	: Both
Rated speed	: 3510 rpm	Noise level ²	: 72.0 dB(A)
Slip	: 2.50 %	Vibration class	: NOT APPLICABLE
Rated torque	: 6.02 ft.lb	Starting method	: Direct On Line
Locked rotor torque	: 230.0 %	Coupling	: Direct
Pull up torque	: 195.0 %	Approx. weight ³	: 94.8 lb
Breakdown torque	: 240.0 %	Painting plan	: 207A
Insulation class	: F	Color	: RAL 5009
Service factor	: 1.15		
Moment of inertia (J)	: 0.1590 sq.ft.lb		

Output	50%	75%	100%
Efficiency (%)	75.5	81.0	82.0
Power Factor	0.96	0.97	0.97

Load type	: -
Load torque	: -
Load inertia (J=GD ² /4)	: -

	Drive end	Non drive end
Bearing type	6206-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: -
Max. compression	: -

Notes
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Standards	Specification	: IEC 60034-1	Vibration	: IEC 60034-14
	Test	: IEC 60034-2	Tolerance	: IEC 60034-1
	Noise	: IEC 60034-9		

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 +3dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

Rev.	Changes Summary		Rev.	Checked	Date
Performed by	lucaspiton			1383087380	
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