

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : WEG (UK) LTD.

Product line : W50 - Medium Voltage (1.2kV to 5.0kV)

Frame	: W50 7006/07	Locked rotor time	: 25 s (hot) 45 s (cold)
Output	: 1000 HP (750 kW)	Temperature rise ⁴	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 4160 V	Altitude	: 1000 m.a.s.l
Rated current	: 139 A	Degree of protection	: IP55
L. R. Amperes	: 971 A	Cooling method	: IC416 - TEBC
LRC (p.u.)	: 7.0 Code H	Mounting	: F-1
No load current	: 30.0 A	Direct of rotation ¹	: Both
Rated speed	: 1794 rpm	Noise level ²	: -
Slip	: 0.33 %	Starting method	: Inverter
Rated torque	: 3968 Nm	Approx. weight ³	: 4870 kg
Locked rotor torque	: 150 %		
Pull up torque	: 110 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 23.7 kgm ²		

Output	Start	50%	75%	100%	Load type	: Constant torque
Efficiency (%)	-	95.0	95.8	96.2	Load torque	: 3973 Nm
Power factor	0.16	0.63	0.73	0.78	Load inertia (J=GD ² /4)	: 23.7 kgm ²

Operation limits with inverter
 6 Hz up to 60 Hz (Constant torque): 3973 Nm
 Voltage Peak Phase-to-Ground <= 3800 V
 Maximum peak voltage phase-to-phase <= 6500 V
 dV/dt <= 1800 V/μs

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	6328-M-C3	6322-C3	Maximum traction : 31512 N
Lubrication interval	4079 h	4500 h	Maximum compression : 79287 N
Lubricant amount	93 g	60 g	
Lubricant type	MOBIL POLYREX EM		

Notes:
 Motor suitable for constant torque of 4000Nm from 6Hz to 60Hz.
 Noise level (2): 85 dB(A)

Standards	Specification	: MG1 - Part 20	Vibration	: MG1 - Part 7
	Tests	: MG1 - Part 20	Tolerance	: -
	Noise	: MG1 - Part 9		

This revision replaces and cancels the previous one, which must be eliminated.
 (1) When viewed from the drive end.
 (2) Measured at 1m and with tolerance of +3dB(A).
 (3) Approximate weight subject to changes after manufacturing process.
 (4) At the rated point.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-20.

Rev.	Summary of changes		Performed	Checked	Date
Performed by	aalves				267861/2018
Checked by	dteixeira				Page
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				1/1	5

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