

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line :

Frame	: 100L	Cooling method	: TEFC
Insulation class	: F	Mounting	: B34L(D)
Duty cycle	: S1	Direct of rotation ¹	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: VFD
Altitude	: 1000 m.a.s.l	Approx. weight ³	: 32.2 kg
Degree of protection	: IP55	Moment of inertia (J)	: 0.0082 kgm ²
Design	: N		

Output	2.2 kW	2.2 kW	2.2 kW	2.2 kW
Poles	4	4	4	4
Frequency	50 Hz	50 Hz	50 Hz	60 Hz
Rated voltage	220/380 V	230/400 V	240/415 V	460 V
Rated current	8.25/4.78 A	8.07/4.64 A	7.93/4.58 A	3.94 A
L. R. Amperes	54.5/31.5 A	53.3/30.6 A	52.3/30.2 A	29.9 A
LRC (p.u.)	6.6	6.6	6.6	7.6 x Code J
No load current	3.72/2.13 A	4.07/2.37 A	4.57/2.62 A	2.17 A
Rated speed	1415 rpm	1425 rpm	1430 rpm	1735 rpm
Slip	5.67 %	5.00 %	4.67 %	3.61 %
Rated torque	14.9 Nm	14.8 Nm	14.7 Nm	12.1 Nm
Locked rotor torque	260 %	310 %	330 %	330 %
Breakdown torque	280 %	320 %	340 %	380 %
Service factor	1.15	1.15	1.15	1.15
Temperature rise ⁴	80 K	80 K	80 K	80 K
Noise level ²	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Locked rotor time	16 s (hot)	16 s (hot)	16 s (hot)	16 s (hot)
	29 s (cold)	29 s (cold)	29 s (cold)	29 s (cold)
Efficiency (%)	50%	84.2	84.0	83.3
	75%	84.3	84.5	84.5
	100%	84.3	84.5	84.5
Power factor	50%	0.68	0.63	0.59
	75%	0.79	0.75	0.73
	100%	0.83	0.81	0.79

	Drive end	Non drive end
Bearing type	6307-ZZ	6205-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

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 IEC 60034-1.

Rev.	Summary of changes		Performed	Checked	Date
Performed by	feixiang			096219/2015	
Checked by	zhoushuiping			Page	Revision
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Customer :

Product line :

Operation limits with inverter

Maximum peak voltage phase-to-phase ≤ 1600 V
dV/dt ≤ 5200 V/ μ s
Rise time $\geq 0,1$ μ s

Notes:

W21 IE2 ALUMINUM FRAME

Suitable for VFD applications up to 460V. Conditions must remain within the following:

- Maximum voltage peak on motor terminals: 1600V
- dV/dt on motor terminals: ≤ 5200 V/ μ s
- Minimum rise time of the inverter: $t_r > 0,1$ μ s
- Minimum time between consecutive pulses: $t_{ep} > 6$ μ s
- WEG VFD complies with the above condition with no necessity of external filter, since installed accordingly the VFD User's Manual instructions.

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

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