

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer : WEG (UK) LTD.

Product line : W22 - IE3 Premium Efficiency Multivoltage Product code : 12977803

Frame : 132M	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : B5T
Duty cycle : S1	Direct of rotation <sup>1</sup> : Both
Ambient temperature : -20 °C to +40 °C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l	Approx. weight <sup>3</sup> : 87.5 kg
Degree of protection : IP55	Moment of inertia (J) : 0.0303 kgm <sup>2</sup>
Design : N	

Output	11 kW (15 HP)	11 kW (15 HP)	11 kW (15 HP)	11 kW (15 HP)
Poles	2	2	2	2
Frequency	50 Hz	50 Hz	50 Hz	60 Hz
Rated voltage	380/660 V	400/690 V	415 V	460 V
Rated current	20.6/11.9 A	19.8/11.5 A	19.5 A	17.4 A
L. R. Amperes	169/97.3 A	162/94.1 A	160 A	151 A
LRC (p.u.)	8.2	8.2	8.2	8.7 x Code K
No load current	6.60/3.80 A	7.40/4.29 A	8.10 A	6.90 A
Rated speed	2920 rpm	2930 rpm	2935 rpm	3540 rpm
Slip	2.67 %	2.33 %	2.17 %	1.67 %
Rated torque	3.67 kgfm	3.66 kgfm	3.65 kgfm	3.03 kgfm
Locked rotor torque	240 %	270 %	300 %	300 %
Breakdown torque	260 %	300 %	330 %	370 %
Service factor	1.00	1.00	1.00	1.25
Noise level <sup>2</sup>	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	68.0 dB(A)
Locked rotor time	11 s (hot)	11 s (hot)	10 s (hot)	15 s (hot)
	20 s (cold)	20 s (cold)	18 s (cold)	27 s (cold)
Efficiency (%)	50%	90.9	90.6	90.2
	75%	91.0	91.1	91.1
	100%	91.2	91.2	91.4
Power factor	50%	0.79	0.75	0.71
	75%	0.86	0.84	0.81
	100%	0.89	0.88	0.86

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1(0,9;1,0)	P2(0,5;1,0)	P3(0,25;1,0)	P4(0,9;0,5)	P5(0,5;0,5)	P6(0,5;0,25)	P7(0,25;0,25)
	9.5	8.2	7.4	4.2	2.9	1.8	1.2
	9.5	8.2	7.4	4.2	2.9	1.8	1.2
	9.3	8.0	7.2	4.1	2.9	1.7	1.2
	9.8	8.4	7.6	4.3	3.0	1.8	1.2

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	6308-ZZ	6207-ZZ	Maximum traction : 179 kgf
Lubrication interval	-	-	Maximum compression : 267 kgf
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	etyler			782723/2024
Checked by	AUTOMATICO			Page Revision
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Standards	Specification : IEC 60034-1	Vibration : IEC 60034-14
	Tests : IEC 60034-2	Tolerance : IEC 60034-1
	Noise : IEC 60034-9	

Rev.	Summary of changes	Performed	Checked	Date
Performed by	etyler			782723/2024
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