

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : WEG (UK) LTD.

Product line : W22 - IE3 Premium Efficiency Multivoltage Product code : 13845264

Frame : 90S	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : B5T
Duty cycle : S1	Direct of rotation ¹ : Both
Ambient temperature : -20 °C to +40 °C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l	Approx. weight ³ : 20.1 kg
Degree of protection : IP55	Moment of inertia (J) : 0.0020 kgm ²
Design : N	

Output	1.5 kW	1.5 kW	1.5 kW	1.5 kW
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	3.21/1.85 A	3.16/1.83 A	3.14 A	2.75 A
L. R. Amperes	22.5/12.9 A	23.1/13.4 A	23.9 A	23.1 A
LRC (p.u.)	7.0	7.3	7.6	8.4 x Code L
No load current	1.40/0.806 A	1.60/0.928 A	1.90 A	1.50 A
Rated speed	2850 rpm	2870 rpm	2880 rpm	3490 rpm
Slip	5.00 %	4.33 %	4.00 %	3.06 %
Rated torque	5.03 Nm	4.99 Nm	4.98 Nm	4.11 Nm
Locked rotor torque	270 %	300 %	330 %	370 %
Breakdown torque	280 %	320 %	350 %	430 %
Service factor	1.00	1.00	1.00	1.25
Noise level ²	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	68.0 dB(A)
Locked rotor time	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)
Efficiency (%)	25%	77.5	75.7	72.9
	50%	83.7	83.0	82.2
	75%	85.0	85.0	84.8
	100%	84.4	84.5	85.2
	125%	83.2	83.5	84.7
Power factor	Start	0.75	0.76	0.77
	25%	0.45	0.41	0.36
	50%	0.67	0.62	0.57
	75%	0.78	0.74	0.70
	100%	0.84	0.81	0.78
	125%	0.86	0.83	0.81

	Drive end	Non drive end	Foundation loads
Bearing type	6205-ZZ	6204-ZZ	Maximum traction : 406 N
Lubrication interval	-	-	Maximum compression : 603 N
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	dcraddock				258134/2020
Checked by	AUTOMATICO				Page Revision
Date	23/07/2020				1/2 0

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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	dcraddock			258134/2020	
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Date	23/07/2020			2/2	0

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