

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : WEG (UK) LTD.

Product line : W22 - IE3 Premium Efficiency Multivoltage Product code : 15838619

Frame	: 80	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B5T
Duty cycle	: S1	Rotation ¹	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l	Approx. weight ³	: 14.2 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0008 kgm ²
Design	: N		

Output	0.75 kW	0.75 kW	0.75 kW	0.75 kW
Poles	2	2	2	2
Frequency	50 Hz	50 Hz	50 Hz	60 Hz
Rated voltage	220/380 V	230/400 V	240/415 V	460 V
Rated current	2.90/1.68 A	2.87/1.65 A	2.82/1.63 A	1.46 A
L. R. Amperes	21.2/12.3 A	21.5/12.4 A	21.7/12.6 A	12.4 A
LRC	7.3	7.5	7.7	8.5 x Code L
No load current	1.55/0.900 A	1.74/1.00 A	1.90/1.10 A	0.910 A
Rated speed	2840 rpm	2860 rpm	2870 rpm	3480 rpm
Slip	5.33 %	4.67 %	4.33 %	3.33 %
Rated torque	2.52 Nm	2.50 Nm	2.50 Nm	2.06 Nm
Locked rotor torque	290 %	320 %	350 %	400 %
Pull up torque	247 %	272 %	298 %	340 %
Breakdown torque	290 %	320 %	350 %	400 %
Service factor	1.00	1.00	1.00	1.25
Noise level ²	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)	62.0 dB(A)
Locked rotor time (hot)	18 s	18 s	18 s	18 s
Locked rotor time (cold)	32 s	32 s	32 s	32 s
Efficiency (%)	50%	80.0	80.0	79.1
	75%	80.5	82.0	81.0
	100%	80.7	81.0	81.1
Power Factor	50%	0.65	0.60	0.56
	75%	0.77	0.73	0.70
	100%	0.84	0.81	0.79

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

Losses (%)	P1(0,9;1,0)	23.5	23.1	22.9	22.3
	P2(0,5;1,0)	20.8	20.4	20.2	19.7
	P3(0,25;1,0)	18.8	18.4	18.3	17.9
	P4(0,9;0,5)	12.7	12.5	12.4	12.1
	P5(0,5;0,5)	8.5	8.3	8.3	8.1
	P6(0,5;0,25)	6.2	6.0	6.0	5.9
	P7(0,25;0,25)	4.3	4.2	4.2	4.1

	Drive end	Non drive end	Foundation loads	
Bearing type	6204-ZZ	6203-ZZ	Max. traction	: 210 N
Lubrication interval	-	-	Max. compression	: 349 N
Lubricant amount	-	-	Load type	: -
Lubricant type	MOBIL POLYREX EM		Load torque	: -
			Load inertia (J=GD²/4)	: -

Notes
See notes on page 2.

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Thermal protection				
ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155°C

Space heater information
Voltage: 110-127 V
Output: 6.3-8.4 W

Notes

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.

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Dimensions in mm