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[1]	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l	Approx. weight[3]	: 87.5 kg
Degree of protection	: IP55	Moment of inertia (J)	: 0.0303 kgm²
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[2]		63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	68.0 dB(A)
Locked rotor time		11 s (hot) 20 s (cold)	11 s (hot) 20 s (cold)	10 s (hot) 18 s (cold)	15 s (hot) 27 s (cold)
Efficiency (%)	50%	90.9	90.6	90.2	88.5
	75%	91.0	91.1	91.1	90.2
	100%	91.2	91.2	91.4	91.0
Power factor	50%	0.79	0.75	0.71	0.73
	75%	0.86	0.84	0.81	0.82
	100%	0.89	0.88	0.86	0.87
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1(0,9;1,0)	9.5	9.5	9.3	9.8
	P2(0,5;1,0)	8.2	8.2	8.0	8.4
	P3(0,25;1,0)	7.4	7.4	7.2	7.6
	P4(0,9;0,5)	4.2	4.2	4.1	4.3
	P5(0,5;0,5)	2.9	2.9	2.9	3.0
	P6(0,5;0,25)	1.8	1.8	1.7	1.8
	P7(0,25;0,25)	1.2	1.2	1.2	1.2

	Drive end	Non drive end
Bearing type	6308-ZZ	6207-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads

Maximum traction : 179 kgf

Maximum compression : 267 kgf

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
Date	04/10/2024		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	etyler		782723/2024	
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