

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22Xdb Flameproof - Standard Efficiency IE1 Multivoltage Product code : 17050812

Frame	: 200M/L	Cooling method	: TEFC-XP
Insulation class	: F	Mounting	: B3T
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	: 343 kg
Degree of protection	: IP56	Moment of inertia (J)	: 0.2668 kgm ²
Design	: N		

Output	30 kW (40 HP)	30 kW (40 HP)	30 kW (40 HP)	30 kW (40 HP)
Poles	4	4	4	4
Frequency	50 Hz	50 Hz	50 Hz	60 Hz
Rated voltage	380/660 V	400/690 V	415 V	460 V
Rated current	58.8/33.9 A	57.0/33.0 A	57.0 A	50.5 A
L. R. Amperes	382/220 A	399/231 A	428 A	404 A
LRC (p.u.)	6.5	7.0	7.5	8.0 x Code K
No load current	21.0/12.1 A	24.0/13.9 A	26.8 A	21.4 A
Rated speed	1470 rpm	1475 rpm	1475 rpm	1777 rpm
Slip	2.00 %	1.67 %	1.67 %	1.28 %
Rated torque	19.9 kgfm	19.8 kgfm	19.8 kgfm	16.4 kgfm
Locked rotor torque	220 %	250 %	270 %	300 %
Breakdown torque	240 %	270 %	290 %	320 %
Service factor	1.00	1.00	1.00	1.15
Noise level ²	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	69.0 dB(A)
Locked rotor time	13 s (hot) 23 s (cold)	13 s (hot) 23 s (cold)	13 s (hot) 23 s (cold)	13 s (hot) 23 s (cold)
Efficiency (%)	50%	91.7	91.3	90.8
	75%	91.7	91.7	91.5
	100%	91.2	91.5	91.6
Power factor	Start	0.42	0.42	0.42
	50%	0.71	0.66	0.61
	75%	0.81	0.77	0.74
	100%	0.85	0.83	0.80

	Drive end	Non drive end
Bearing type	6312-C3	6212-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	21 g	13 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Maximum traction	: 552 kgf
Maximum compression	: 894 kgf

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Not subject to changes.

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	e-manumathew	005051/2023 Page Revision 1/2 0		
Checked by	AUTOMATICO			
Date	10/01/2023			

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Thermal protection

ID	Application	Type	Quantity	Switching temperature
01	Winding	Thermistor - 2 Wires	1 x Phase	150 °C

Space heater information

Voltage: 200-240 V

Output: 32-46 W

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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	

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Performed by	e-manumathew	005051/2023		
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