

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22Xdb Flameproof - Standard Efficiency IE1 Multivoltage Product code : 15229934

Frame	: 160M/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	: 219 kg
Degree of protection	: IP56	Moment of inertia (J)	: 0.0589 kgm ²
Design	: N		

Output		18.5 kW (25 HP)	18.5 kW (25 HP)	18.5 kW (25 HP)	18.5 kW (25 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		35.5/20.4 A	34.4/19.9 A	33.9 A	29.7 A
L. R. Amperes		266/153 A	268/156 A	275 A	261 A
LRC (p.u.)		7.5	7.8	8.1	8.8 x Code K
No load current		10.6/6.13 A	12.3/7.13 A	13.1 A	11.6 A
Rated speed		2940 rpm	2945 rpm	2950 rpm	3555 rpm
Slip		2.00 %	1.83 %	1.67 %	1.25 %
Rated torque		6.13 kgfm	6.12 kgfm	6.11 kgfm	5.07 kgfm
Locked rotor torque		270 %	300 %	320 %	360 %
Breakdown torque		310 %	350 %	390 %	420 %
Service factor		1.00	1.00	1.00	1.15
Noise level ²		67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	72.0 dB(A)
Locked rotor time		7 s (hot) 13 s (cold)	7 s (hot) 13 s (cold)	7 s (hot) 13 s (cold)	9 s (hot) 16 s (cold)
Efficiency (%)	50%	90.8	90.3	89.7	89.7
	75%	90.8	90.7	90.4	90.9
	100%	90.1	90.3	90.3	91.0
Power factor	Start	0.50	0.50	0.50	0.47
	50%	0.75	0.70	0.65	0.68
	75%	0.84	0.80	0.76	0.80
	100%	0.88	0.86	0.84	0.86

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	6309-C3	6308-C3	Maximum traction	: 266 kgf
Lubrication interval	20000 h	20000 h	Maximum compression	: 485 kgf
Lubricant amount	13 g	11 g		
Lubricant type	MOBIL POLYREX EM			

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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
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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: 25-35 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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