

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W01 - TEFC - Premium Efficiency (DOE) Derating

Frame	: 56C	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1/B14R(D)
Duty cycle	: S1	Rotation ¹	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 3280 ft	Approx. weight ³	: 32.8 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.1020 sq.ft.lb
Design	: B		

Output	1.5 HP (1.1 kW)	1.5 HP (1.1 kW)	1.5 HP (1.1 kW)
Poles	2	2	2
Frequency	60 Hz	50 Hz	50 Hz
Rated voltage	230/460 V	190/380 V	220/415 V
Rated current	3.74/1.87 A	4.44/2.22 A	3.90/2.07 A
L. R. Amperes	34.0/17.0 A	32.0/16.0 A	33.2/17.6 A
LRC	9.1	7.2	8.5
No load current	1.72/0.860 A	1.69/0.845 A	1.83/0.971 A
Rated speed	3520 rpm	2895 rpm	2915 rpm
Slip	2.22 %	3.50 %	2.83 %
Rated torque	2.21 ft.lb	2.68 ft.lb	2.66 ft.lb
Locked rotor torque	230 %	190 %	240 %
Pull up torque	195 %	160 %	200 %
Breakdown torque	300 %	280 %	330 %
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Locked rotor time (hot)	17 s	16 s	14 s
Locked rotor time (cold)	31 s	29 s	25 s
Efficiency (%)	50%	80.0	81.7
	75%	82.5	84.0
	100%	84.0	83.9
Power Factor	50%	0.71	0.70
	75%	0.82	0.82
	100%	0.88	0.88

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

Losses (%)	P1(0,9;1,0)	17.5	16.8	18.3
	P2(0,5;1,0)	14.5	13.9	15.1
	P3(0,25;1,0)	13.6	13.0	14.2
	P4(0,9;0,5)	9.4	9.0	9.8
	P5(0,5;0,5)	5.7	5.5	6.0
	P6(0,5;0,25)	4.0	3.8	4.1
	P7(0,25;0,25)	2.5	2.5	2.6

	Drive end	Non drive end	Foundation loads
Bearing type	6204-ZZ	6202-ZZ	Max. traction : 311 N
Lubrication interval	-	-	Max. compression : 457 N
Lubricant amount	-	-	Load type : -
Lubricant type	MOBIL POLYREX EM		Load torque : -
			Load inertia (J=GD ² /4) : -

Notes
See notes on page 2.

Rev.	Changes Summary		Rev.	Checked	Date
Performed by	fmonroy			Page	Rev.
Checked by				1 / 2	0
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Thermal protection ID	Application	Type	Quantity	Sensing Temperature
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Notes
USABLE @208V 4.13A SF 1.00 SFA 4.13A

Standards	Specification	: MG1 - Part 10	Vibration	: MG1 - Part 7
	Test	: MG1 - Part 12	Tolerance	: MG1 - Part 12
	Noise	: MG1 - Part 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 NEMA MG 1-12.
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Rev.	Changes Summary		Rev.	Checked	Date
Performed by	fmonroy			Page	Rev.
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