

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : W01 - TEFC - Premium Efficiency (DOE) Jet Pump - Forma J Derating Product code : 19188697

Frame	: 56J	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1/B34R(D)
Duty cycle	: S1	Rotation ¹	: Counter clockwise
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 3280 ft	Approx. weight ³	: 40.1 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.1281 sq.ft.lb
Design	: B		

	2 HP (1.5 kW)	1.5 HP (1.1 kW)	1.5 HP (1.1 kW)
Output	2 HP (1.5 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	4.94/2.47 A	4.50/2.25 A	4.06/2.15 A
L. R. Amperes	48.9/24.5 A	35.1/17.6 A	36.1/19.1 A
LRC	9.9	7.8	8.9
No load current	2.12/1.06 A	1.76/0.880 A	1.91/1.01 A
Rated speed	3520 rpm	2921 rpm	2935 rpm
Slip	2.22 %	2.63 %	2.17 %
Rated torque	2.94 ft.lb	2.66 ft.lb	2.65 ft.lb
Locked rotor torque	250 %	300 %	370 %
Pull up torque	210 %	255 %	315 %
Breakdown torque	300 %	370 %	440 %
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)	13 s	28 s	24 s
Locked rotor time (cold)	23 s	50 s	43 s
Efficiency (%)	50%	82.5	79.9
	75%	85.5	82.2
	100%	85.5	82.7
Power Factor	50%	0.73	0.75
	75%	0.83	0.85
	100%	0.89	0.90

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

Losses (%)	P1(0,9;1,0)	P2(0,5;1,0)	P3(0,25;1,0)	P4(0,9;0,5)	P5(0,5;0,5)	P6(0,5;0,25)	P7(0,25;0,25)
	16.3	13.8	12.8	8.3	5.2	3.5	2.2
	19.6	16.6	15.4	10.0	6.3	4.2	2.7
	20.0	16.9	15.7	10.2	6.4	4.2	2.8

Bearing type	Drive end	Non drive end	Foundation loads
	6203-2RS	6202-2RS	
Lubrication interval	-	-	Max. compression : 598 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	farazq			1867010103
Checked by	AUTOMATICO		Page	Rev.
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Thermal protection ID	Application	Type	Quantity	Sensing Temperature
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Notes
USABLE @208V 5.46A SF 1.15 SFA 6.28A

Standards	Specification	Test	Noise	Vibration	Tolerance
	: MG1 - Part 10	: MG1 - Part 12	: MG1 - Part 9	: MG1 - Part 7	: MG1 - Part 12

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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