DATA SHEET
Three Phase Induction Motor - Squirrel Cage

Customer	: V.J. PAMENSKY CANADA INC.
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 19098634

Frame	: 143/5JM	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1/B34R(D)
Duty cycle	: S1	Rotation¹	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 3280 ft	Approx. weight³	: 40.8 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.1092 sq.ft.lb
Design	: B		

Output		1.5 HP (1.1 kW)	1 HP (0.75 kW)	1 HP (0.75 kW)
Poles		4	4	4
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	190/380 V	220/415 V
Rated current		4.04/2.02 A	3.54/1.77 A	3.38/1.79 A
L. R. Amperes		33.1/16.6 A	30.1/15.0 A	31.7/16.8 A
LRC		8.2	8.5	9.4
No load current		2.16/1.08 A	2.14/1.07 A	2.38/1.26 A
Rated speed		1750 rpm	1450 rpm	1460 rpm
Slip		2.78 %	3.33 %	2.67 %
Rated torque		4.44 ft.lb	3.57 ft.lb	3.54 ft.lb
Locked rotor torque		270 %	320 %	400 %
Pull up torque		230 %	270 %	340 %
Breakdown torque		300 %	380 %	460 %
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Noise level²		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Locked rotor time (hot)		21 s	38 s	30 s
Locked rotor time (cold)		38 s	68 s	54 s
Efficiency (%)	50%	85.5	82.8	80.1
	75%	86.5	84.8	83.6
	100%	86.5	84.9	84.7
Power Factor	50%	0.59	0.53	0.45
	75%	0.72	0.66	0.59
	100%	0.79	0.76	0.69
Losses at normative operating points (speed;torque), in percentage of rated output power				
Losses (%)	P1(0,9;1,0)	17.4	18.6	18.6
	P2(0,5;1,0)	15.2	16.2	16.2
	P3(0,25;1,0)	15.3	16.4	16.4
	P4(0,9;0,5)	9.1	9.8	9.8
	P5(0,5;0,5)	6.5	6.9	6.9
	P6(0,5;0,25)	4.8	5.1	5.1
	P7(0,25;0,25)	3.5	3.8	3.8

	Drive end	Non drive end
Bearing type	6206-ZZ	6203-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	:
Max. compression	:
Load type	: -
Load torque	: -
Load inertia (J=GD²/4)	: -

Notes
See notes on page 2.

Rev.	Changes Summary	Rev.	Checked	Date

Performed by	farazq		1865051689
Checked by	AUTOMATICO	Page	Rev.
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Thermal protection ID	Application	Type	Quantity	Sensing Temperature

Notes
USABLE @208V 4.47A SF 1.15 SFA 5.14A

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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