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	: 13221482

Frame	: 182/4JM	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	: 91.7 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.4010 sq.ft.lb
Design	: B		

Output		3 HP (2.2 kW)	3 HP (2.2 kW)	3 HP (2.2 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		7.62/3.81 A	9.08/4.54 A	8.15/4.32 A
L. R. Amperes		67.1/33.5 A	60.8/30.4 A	65.2/34.6 A
LRC		8.8	6.7	8.0
No load current		4.00/2.00 A	3.94/1.97 A	4.23/2.24 A
Rated speed		1765 rpm	1455 rpm	1465 rpm
Slip		1.94 %	3.00 %	2.33 %
Rated torque		8.82 ft.lb	10.7 ft.lb	10.6 ft.lb
Locked rotor torque		220 %	180 %	220 %
Pull up torque		185 %	150 %	185 %
Breakdown torque		300 %	260 %	320 %
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Noise level²		56.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Locked rotor time (hot)		18 s	25 s	21 s
Locked rotor time (cold)		32 s	45 s	38 s
Efficiency (%)	50%	87.5	87.5	86.9
	75%	88.5	87.7	88.0
	100%	89.5	86.7	87.4
Power Factor	50%	0.61	0.68	0.62
	75%	0.74	0.79	0.74
	100%	0.81	0.85	0.81

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

Losses (%)	P1(0,9;1,0)	12.6	13.6	13.7
	P2(0,5;1,0)	10.6	11.4	11.6
	P3(0,25;1,0)	10.2	10.9	11.0
	P4(0,9;0,5)	6.8	7.3	7.4
	P5(0,5;0,5)	4.8	5.1	5.2
	P6(0,5;0,25)	3.5	3.8	3.8
	P7(0,25;0,25)	2.6	2.8	2.8

	Drive end	Non drive end
Bearing type	6207-ZZ	6205-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		1865114110	
Checked by	AUTOMATICO		Page	Rev.
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Thermal protection ID	Application	Type	Quantity	Sensing Temperature

Notes
USABLE @208V 8.43A SF 1.15 SFA 9.69A

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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