DATA SHEET
Three Phase Induction Motor - Squirrel Cage

Customer	: V.J. PAMENSKY CANADA INC.
Product line	: W01 - TEFC - Nema Premium Efficiency Derating Product code : 12675366

Frame	: 182/4TC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1/B14R(D)
Duty cycle	: S1	Rotation¹	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 3280 ft	Approx. weight³	: 71.4 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.3085 sq.ft.lb
Design	: B		

Output		5 HP (3.7 kW)	4 HP (3 kW)	4 HP (3 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		13.0/6.49 A	12.8/6.42 A	12.0/6.35 A
L. R. Amperes		90.9/45.4 A	91.2/45.6 A	95.8/50.8 A
LRC		7.0	7.1	8.0
No load current		6.88/3.44 A	6.74/3.37 A	7.85/4.16 A
Rated speed		1750 rpm	1440 rpm	1455 rpm
Slip		2.78 %	4.00 %	3.00 %
Rated torque		14.8 ft.lb	14.4 ft.lb	14.2 ft.lb
Locked rotor torque		220 %	210 %	280 %
Pull up torque		185 %	175 %	235 %
Breakdown torque		300 %	290 %	370 %
Service factor		1.15	1.00	1.00
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)		12 s	13 s	11 s
Locked rotor time (cold)		22 s	23 s	20 s
Efficiency (%)	50%	88.5	87.6	85.3
	75%	89.5	87.9	87.1
	100%	89.5	87.7	87.7
Power Factor	50%	0.60	0.60	0.51
	75%	0.73	0.74	0.66
	100%	0.80	0.81	0.75

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

Losses (%)	P1(0,9;1,0)	14.1	15.1	15.3
	P2(0,5;1,0)	13.2	14.2	14.3
	P3(0,25;1,0)	12.9	13.9	14.1
	P4(0,9;0,5)	6.6	7.2	7.2
	P5(0,5;0,5)	5.1	5.5	5.6
	P6(0,5;0,25)	3.6	3.9	3.9
	P7(0,25;0,25)	2.8	3.0	3.0

	Drive end	Non drive end
Bearing type	6206-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		1859503655	
Checked by	AUTOMATICO		Page	Rev.
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Thermal protection ID	Application	Type	Quantity	Sensing Temperature

Notes
USABLE @208V 14.4A SF 1.00 SFA 14.4A

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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