DATA SHEET
Three Phase Induction Motor - Squirrel Cage

Customer	: V.J. PAMENSKY CANADA INC.
Product line	: W01 Shark - TEFC Nema Premium Efficiency Derating
Product code	: 18917164

Frame	: 143/5TC	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	: 40.1 lb
Protection degree	: IP66	Moment of inertia (J)	: 0.1281 sq.ft.lb
Design	: B		

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	4.44/2.22 A	4.06/2.15 A
L. R. Amperes		48.9/24.5 A	43.1/21.5 A	45.0/23.9 A
LRC		9.9	9.7	11.1
No load current		2.12/1.06 A	2.10/1.05 A	2.26/1.20 A
Rated speed		3520 rpm	2910 rpm	2930 rpm
Slip		2.22 %	3.00 %	2.33 %
Rated torque		2.94 ft.lb	2.67 ft.lb	2.65 ft.lb
Locked rotor torque		250 %	310 %	380 %
Pull up torque		210 %	260 %	320 %
Breakdown torque		300 %	380 %	460 %
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Noise level²		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Locked rotor time (hot)		13 s	20 s	17 s
Locked rotor time (cold)		23 s	36 s	31 s
Efficiency (%)	50%	82.5	82.3	80.9
	75%	85.5	84.4	84.0
	100%	85.5	84.5	84.9
Power Factor	50%	0.73	0.69	0.63
	75%	0.83	0.82	0.77
	100%	0.89	0.89	0.84

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

Losses (%)	P1(0,9;1,0)	17.8	16.9	16.8
	P2(0,5;1,0)	13.8	13.1	13.0
	P3(0,25;1,0)	12.7	12.0	11.9
	P4(0,9;0,5)	10.0	9.5	9.4
	P5(0,5;0,5)	5.5	5.2	5.1
	P6(0,5;0,25)	3.7	3.5	3.5
	P7(0,25;0,25)	2.2	2.1	2.1

	Drive end	Non drive end
Bearing type	6205-2RS	6203-2RS
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		1872101227
Checked by	AUTOMATICO	Page	Rev.
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Thermal protection ID	Application	Type	Quantity	Sensing Temperature

Notes

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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