

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 : 18729681

Frame	: 143/5TC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1/B14R(D)
Duty cycle	: S1	Rotation ¹	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 3280 ft	Approx. weight ³	: 37.9 lb
Protection degree	: IP66	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	105 K	105 K	105 K
Noise level ²	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	80.1
	75%	86.5	83.6
	100%	86.5	84.7
Power Factor	50%	0.59	0.45
	75%	0.72	0.59
	100%	0.79	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

Bearing type	Drive end 6205-2RS	Non drive end 6203-2RS	Foundation loads
Lubrication interval	-	-	Max. traction : Max. compression :
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			1875523838	
Checked by	AUTOMATICO			Page	Rev.
Date	17/07/2026			1 / 2	0

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Thermal protection ID	Application	Type	Quantity	Sensing Temperature
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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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