

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 : 18917159

Frame	: 143/5TC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1/B34R(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	: 42.3 lb
Protection degree	: IP66	Moment of inertia (J)	: 0.1305 sq.ft.lb
Design	: B		

Output	2 HP (1.5 kW)	1.5 HP (1.1 kW)	1.5 HP (1.1 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	5.44/2.72 A	4.92/2.46 A	4.66/2.47 A
L. R. Amperes	44.6/22.3 A	37.9/18.9 A	40.1/21.2 A
LRC	8.2	7.7	8.6
No load current	2.80/1.40 A	2.74/1.37 A	3.09/1.64 A
Rated speed	1745 rpm	1440 rpm	1455 rpm
Slip	3.06 %	4.00 %	3.00 %
Rated torque	5.94 ft.lb	5.40 ft.lb	5.34 ft.lb
Locked rotor torque	270 %	280 %	370 %
Pull up torque	230 %	235 %	315 %
Breakdown torque	300 %	330 %	410 %
Service factor	1.15	1.00	1.00
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)	15 s	30 s	25 s
Locked rotor time (cold)	27 s	54 s	45 s
Efficiency (%)	50%	85.5	82.2
	75%	87.5	84.7
	100%	86.5	85.0
Power Factor	50%	0.60	0.50
	75%	0.73	0.64
	100%	0.80	0.73

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

Losses (%)	P1(0,9;1,0)	18.2	19.2	19.0
	P2(0,5;1,0)	16.1	17.0	16.8
	P3(0,25;1,0)	16.4	17.3	17.1
	P4(0,9;0,5)	9.1	9.6	9.5
	P5(0,5;0,5)	6.6	7.0	6.9
	P6(0,5;0,25)	4.7	4.9	4.9
	P7(0,25;0,25)	3.5	3.7	3.6

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			1872102187	
Checked by	AUTOMATICO			Page	Rev.
Date	10/07/2026			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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