

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : W22 Cooling Tower - TEFC - NEMA Premium Efficiency - Derating Product code : 11972704

Frame : 254T	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : F-1
Duty cycle : S1	Rotation ¹ : Both
Ambient temperature : -20 °C to +40 °C	Starting method : Direct On Line
Altitude : 3280 ft	Approx. weight ³ : 251 lb
Protection degree : IP55	Moment of inertia (J) : 2.62 sq.ft.lb
Design : B	

Output	15 HP (11 kW)		15 HP (11 kW)
Poles	4		4
Frequency	60 Hz		50 Hz
Rated voltage	230/460 V		380 V
Rated current	36.0/18.0 A		21.5 A
L. R. Amperes	230/115 A		106 A
LRC	6.4		4.9
No load current	14.6/7.30 A		7.10 A
Rated speed	1770 rpm		1455 rpm
Slip	1.67 %		3.00 %
Rated torque	43.9 ft.lb		53.4 ft.lb
Locked rotor torque	230 %		160 %
Pull up torque	195 %		145 %
Breakdown torque	250 %		200 %
Service factor	1.25		1.00
Temperature rise	80 K		80 K
Noise level ²	64.0 dB(A)		61.0 dB(A)
Locked rotor time (hot)	21 s		15 s
Locked rotor time (cold)	38 s		27 s
Efficiency (%)	50%	91.0	91.0
	75%	91.7	90.2
	100%	92.4	90.2
Power Factor	50%	0.68	0.74
	75%	0.78	0.82
	100%	0.83	0.86

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

Losses (%)	P1(0,9;1,0)	8.1	10.7
	P2(0,5;1,0)	7.0	9.2
	P3(0,25;1,0)	6.5	8.6
	P4(0,9;0,5)	3.9	5.2
	P5(0,5;0,5)	2.8	3.6
	P6(0,5;0,25)	1.8	2.4
	P7(0,25;0,25)	1.3	1.7

	Drive end	Non drive end	Foundation loads
Bearing type	6309-2RS-C3	6209-2RS-C3	Max. traction : 1784 N
Lubrication interval	-	-	Max. compression : 2902 N
Lubricant amount	-	-	Load type : -
Lubricant type	POLYUREA BASED GREASE		Load torque : -
			Load inertia (J=GD ² /4) : -

Notes
See notes on page 2.

Rev.	Changes Summary		Rev.	Checked	Date
Performed by	farazq			1873694926	
Checked by	AUTOMATICO			Page	Rev.
Date	14/07/2026			1 / 2	0

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Efficiency - Derating

Space heater information
Voltage: 110-127/200-240 V
Output: 25-33/21-30 W

Notes
USABLE @208V 39.8A SF 1.15 SFA 45.8A

Customer information
CSA
For use on 60Hz
Class I, Div 2, Gr A, B, C, D, 1.15SF - T3
Class I, Zone 2, IIC, 1.15SF - T3
Class II, Div 2, Gr F, G - T4
For use on PWM: Gr. A, B, C, D, F,
VT 1000:1, CT 20:1, 1.00SF - T3

Standards

Specification : MG1 - Part 10
Test : MG1 - Part 12
Noise : MG1 - Part 9

Vibration : MG1 - Part 7
Tolerance : MG1 - Part 12

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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Date	14/07/2026		2 / 2	0	