

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : W01 - TEFC - Nema Premium Efficiency JM Derating Product code : 13221573

Frame	: 254/6JM	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	: 227 lb
Protection degree	: IP55	Moment of inertia (J)	: 2.15 sq.ft.lb
Design	: B		

	15 HP (11 kW)	10 HP (7.5 kW)	10 HP (7.5 kW)
Output	15 HP (11 kW)	10 HP (7.5 kW)	10 HP (7.5 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	36.4/18.2 A	30.8/15.4 A	28.3/15.0 A
L. R. Amperes	237/118 A	228/114 A	238/126 A
LRC	6.5	7.4	8.4
No load current	17.3/8.65 A	16.1/8.05 A	17.3/9.19 A
Rated speed	1770 rpm	1480 rpm	1485 rpm
Slip	1.67 %	1.33 %	1.00 %
Rated torque	43.9 ft.lb	35.0 ft.lb	34.9 ft.lb
Locked rotor torque	250 %	260 %	310 %
Pull up torque	210 %	220 %	260 %
Breakdown torque	300 %	350 %	420 %
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Locked rotor time (hot)	19 s	25 s	20 s
Locked rotor time (cold)	34 s	45 s	36 s
Efficiency (%)	50%	91.0	91.6
	75%	92.4	92.6
	100%	92.4	92.5
Power Factor	50%	0.64	0.60
	75%	0.76	0.73
	100%	0.82	0.80

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

Losses (%)	P1(0,9;1,0)	P2(0,5;1,0)	P3(0,25;1,0)	P4(0,9;0,5)	P5(0,5;0,5)	P6(0,5;0,25)	P7(0,25;0,25)
	9.5	8.4	8.1	4.5	3.3	2.1	1.6
	9.3	8.3	7.9	4.3	3.2	2.1	1.6
	9.3	8.3	8.0	4.4	3.2	2.1	1.6

Bearing type	Drive end	Non drive end	Foundation loads
	6309-Z-C3	6208-Z-C3	
Lubrication interval	20000 h	20000 h	Max. compression :
	13 g	8 g	Load type :-
Lubricant amount	MOBIL POLYREX EM		Load torque :-
Lubricant type			Load inertia (J=GD ² /4) :-

Notes
See notes on page 2.

Rev.	Changes Summary	Rev.	Checked	Date
Performed by	farazq			1865184498
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Date	24/06/2026	1 / 2	0	

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Thermal protection ID	Application	Type	Quantity	Sensing Temperature
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Notes
USABLE @208V 40.2A SF 1.15 SFA 46.3A

Standards	Specification	: MG1 - Part 10	Vibration	: MG1 - Part 7
	Test	: MG1 - Part 12	Tolerance	: MG1 - Part 12
	Noise	: MG1 - Part 9		

<p>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.</p>	<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.</p>
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