

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : W01 - ODP - Nema Premium Efficiency - Derating Product code : 13163457

Frame	: 254/6TC	Cooling method	: IC01 - ODP
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	: 213 lb
Protection degree	: IP21	Moment of inertia (J)	: 2.23 sq.ft.lb
Design	: B		

Output	20 HP (15 kW)	20 HP (15 kW)	20 HP (15 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	50.0/25.0 A	59.8/29.9 A	53.0/28.1 A
L. R. Amperes	315/158 A	311/155 A	329/174 A
LRC	6.3	5.2	6.2
No load current	22.9/11.4 A	22.4/11.2 A	25.5/13.5 A
Rated speed	1770 rpm	1460 rpm	1465 rpm
Slip	1.67 %	2.67 %	2.33 %
Rated torque	58.5 ft.lb	71.0 ft.lb	70.7 ft.lb
Locked rotor torque	240 %	180 %	220 %
Pull up torque	200 %	150 %	185 %
Breakdown torque	290 %	220 %	270 %
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Noise level ²	64.0 dB(A)	62.0 dB(A)	62.0 dB(A)
Locked rotor time (hot)	15 s	0 s	0 s
Locked rotor time (cold)	27 s	0 s	0 s
Efficiency (%)	50%	92.4	91.8
	75%	92.4	91.2
	100%	93.0	89.7
Power Factor	50%	0.63	0.72
	75%	0.74	0.82
	100%	0.81	0.85

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

Notes
See notes on page 2.

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.

Rev.	Changes Summary	Rev.	Checked	Date
Performed by	farazq	1853276219		
Checked by	AUTOMATICO	Page	Rev.	
Date	27/05/2026	1 / 2	0	

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Thermal protection ID	Application	Type	Quantity	Sensing Temperature
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Notes

USABLE @208V 55.3A SF 1.00 SFA 55.3A

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

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