

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	90.9
	75%	92.4	91.2	91.3
	100%	93.0	89.7	90.5
Power Factor	50%	0.63	0.72	0.64
	75%	0.74	0.82	0.76
	100%	0.81	0.85	0.82

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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