

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : V.J.PAMENSKY CANADA INC

Product line : W22 - Nema Premium Efficiency (Centro 3100)

Frame	: 254/6TCZ	Locked rotor time	: 38 s (hot) 69 s (cold)
Output	: 20 HP (15 kW)	Temperature rise ⁴	: 105 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l
Rated current	: 21.0 A	Degree of protection	: IP55
L. R. Amperes	: 193 A	Cooling method	: IC410 - TENV
LRC (p.u.)	: 9.2 Code L	Mounting	: F-1
No load current	: 10.8 A	Direct of rotation ¹	: Both
Rated speed	: 1778 rpm	Starting method	: VFD
Slip	: 1.22 %	Approx. weight ³	: 132 kg
Rated torque	: 8.16 kgfm	Design	: A
Locked rotor torque	: 350 %		
Pull up torque	: 200 %		
Breakdown torque	: 360 %		
Insulation class	: H		
Service factor	: 1.00		
Moment of inertia (J)	: 0.1305 kgm ²		

Output	Start	50%	75%	100%	Load type	: Parabolic torque
Efficiency (%)	-	91.7	92.4	93.0	Load torque	: 8.09 kgfm
Power factor	0.48	0.57	0.70	0.77	Load inertia (J=GD ² /4)	: 0.1305 kgm ²

Operation limits with inverter	Maximum peak voltage phase-to-phase <= 2400 V
6 Hz up to 60 Hz (Variable torque): 8.09 kgfm	dV/dt <= 7800 V/μs
	Rise time >= 0,1 μs

	Drive end	Non drive end	Foundation loads
Bearing type	6309-C3	6209-C3	Maximum traction : 391 kgf
Lubrication interval	20000 h	20000 h	Maximum compression : 523 kgf
Lubricant amount	13 g	9 g	
Lubricant type	MOBIL POLYREX EM		

Notes:

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

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)
7.5	6.4	5.8	3.6	2.5	1.6	1.1

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

This revision replaces and cancels the previous one, which must be eliminated.

(1) When viewed from the drive end.

(2) Measured at 1m and with tolerance of +3dB(A).

(3) Approximate weight subject to changes after manufacturing process.

(4) At the rated point.

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

Rev.	Summary of changes		Performed	Checked	Date
Performed by	ialejandra	865353/2024			
Checked by	barrios				
Date	20/12/2024				
			Page	Revision	
			1/2	0	

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