

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : V.J. PAMENSKY CANADA INC.

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

Frame	: 143/5TCZ	Locked rotor time	: 20 s (hot) 36 s (cold)
Output	: 1 HP (0.75 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	: 1.17 A	Degree of protection	: IP55
L. R. Amperes	: 10.1 A	Cooling method	: IC410 - TENV
LRC (p.u.)	: 8.6 Code M	Mounting	: F-1
No load current	: 0.690 A	Direct of rotation ¹	: Both
Rated speed	: 1755 rpm	Starting method	: VFD
Slip	: 2.50 %	Approx. weight ³	: 18.5 kg
Rated torque	: 0.414 kgfm	Design	: B
Locked rotor torque	: 290 %		
Pull up torque	: 290 %		
Breakdown torque	: 350 %		
Insulation class	: H		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0040 kgm ²		

Output	Start	50%	75%	100%	Load type	: Parabolic torque
Efficiency (%)	-	80.0	84.0	85.5	Load torque	: 0.410 kgfm
Power factor	0.66	0.55	0.68	0.75	Load inertia (J=GD ² /4)	: 0.0049 kgm ²

Operation limits with inverter	Maximum peak voltage phase-to-phase <= 2400 V
6 Hz up to 60 Hz (Variable torque): 0.410 kgfm	dV/dt <= 7800 V/μs
	Rise time >= 0,1 μs

	Drive end	Non drive end	Foundation loads
Bearing type	6205-ZZ	6205-ZZ	Maximum traction : 32 kgf
Lubrication interval	-	-	Maximum compression : 50 kgf
Lubricant amount	-	-	
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)
16.1	13.6	13.7	9.4	6.9	5.5	4.2

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	mauricioct			864043/2024	
Checked by	ialejandra			Page	Revision
Date	19/12/2024			1/2	0

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