

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : W22 - Nema Premium Efficiency (Derating)

Frame	: 182/4TD	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: S1	Rotation ¹	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 3280 ft	Approx. weight ³	: 105 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.3393 sq.ft.lb
Design	: B		

Output	3 HP (2.2 kW)		3 HP (2.2 kW)
Poles	4		4
Frequency	60 Hz		50 Hz
Rated voltage	230/460 V		380 V
Rated current	8.02/4.01 A		4.78 A
L. R. Amperes	65.8/32.9 A		30.1 A
LRC	8.2		6.3
No load current	4.00/2.00 A		2.10 A
Rated speed	1765 rpm		1455 rpm
Slip	1.94 %		3.00 %
Rated torque	8.82 ft.lb		10.7 ft.lb
Locked rotor torque	220 %		220 %
Pull up torque	185 %		185 %
Breakdown torque	320 %		250 %
Service factor	1.25		1.25
Temperature rise	80 K		80 K
Noise level ²	56.0 dB(A)		56.0 dB(A)
Locked rotor time (hot)	23 s		18 s
Locked rotor time (cold)	41 s		32 s
Efficiency (%)	50%	87.5	87.5
	75%	88.5	87.5
	100%	89.5	87.5
Power Factor	50%	0.58	0.65
	75%	0.69	0.77
	100%	0.77	0.80

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

Losses (%)	P1(0,9;1,0)	12.7	12.9
	P2(0,5;1,0)	11.2	11.3
	P3(0,25;1,0)	10.8	11.0
	P4(0,9;0,5)	6.7	6.8
	P5(0,5;0,5)	5.0	5.0
	P6(0,5;0,25)	3.7	3.7
	P7(0,25;0,25)	2.8	2.9

Bearing type	Drive end 6207-ZZ	Non drive end 6206-ZZ	Foundation loads	
Lubrication interval	-	-	Max. traction	: 566 N
Lubricant amount	-	-	Max. compression	: 1033 N
Lubricant type	POLYUREA BASED GREASE		Load type	: -
			Load torque	: -
			Load inertia (J=GD ² /4)	: -

Notes

See notes on page 2.

Rev.	Changes Summary		Rev.	Checked	Date
Performed by	farazq			1896227081	
Checked by	AUTOMATICO			Page	Rev.
Date	03/09/2026			1 / 2	0

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Notes

USABLE @208V 8.65A SF 1.15 SFA 9.95A

Customer information

CSA

For use on 60Hz

Class I, Div 2, Gr A, B, C, D, 1.15SF - T3

Class I, Zone 2, IIC, 1.15SF - T3

Class II, Div 2, Gr F, G - T5

For use on PWM: Gr. A, B, C, D, F, G,

VT 1000:1, CT 20:1, 1.00SF - T4A

Standards

Specification : MG1 - Part 10
Test : MG1 - Part 12
Noise : MG1 - Part 9

Vibration : MG1 - Part 7
Tolerance : MG1 - Part 12

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.

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