

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : W01 Shark - TEFC Nema Premium Efficiency Derating Product code : 18814192

Frame	: 182/4T	Cooling method	: IC411 - TEFC
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	: 63.5 lb
Protection degree	: IP66	Moment of inertia (J)	: 0.1566 sq.ft.lb
Design	: B		

Output	3 HP (2.2 kW)	2 HP (1.5 kW)	2 HP (1.5 kW)
Poles	2	2	2
Frequency	60 Hz	50 Hz	50 Hz
Rated voltage	230/460 V	190/380 V	220/415 V
Rated current	7.52/3.76 A	6.56/3.28 A	6.02/3.19 A
L. R. Amperes	66.2/33.1 A	60.4/30.2 A	62.6/33.2 A
LRC	8.8	9.2	10.4
No load current	3.40/1.70 A	3.40/1.70 A	3.77/2.00 A
Rated speed	3515 rpm	2920 rpm	2940 rpm
Slip	2.36 %	2.67 %	2.00 %
Rated torque	4.42 ft.lb	3.54 ft.lb	3.52 ft.lb
Locked rotor torque	240 %	300 %	350 %
Pull up torque	200 %	255 %	295 %
Breakdown torque	350 %	400 %	480 %
Service factor	1.15	1.15	1.15
Temperature rise	105 K	105 K	105 K
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Locked rotor time (hot)	25 s	31 s	26 s
Locked rotor time (cold)	45 s	56 s	47 s
Efficiency (%)	50%	84.0	83.3
	75%	86.5	85.0
	100%	86.5	85.9
Power Factor	50%	0.70	0.62
	75%	0.80	0.73
	100%	0.85	0.81

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

Losses (%)	P1(0,9;1,0)	14.2	14.9	14.5
	P2(0,5;1,0)	10.4	11.0	10.7
	P3(0,25;1,0)	10.2	10.8	10.5
	P4(0,9;0,5)	8.6	9.0	8.8
	P5(0,5;0,5)	4.8	5.0	4.9
	P6(0,5;0,25)	3.5	3.7	3.6
	P7(0,25;0,25)	2.2	2.3	2.3

Bearing type	Drive end 6206-2RS	Non drive end 6205-2RS	Foundation loads
Lubrication interval	-	-	Max. traction : Max. compression :
Lubricant amount	-	-	Load type : -
Lubricant type	MOBIL POLYREX EM		Load torque : - Load inertia (J=GD ² /4) : -

Notes
See notes on page 2.

Rev.	Changes Summary		Rev.	Checked	Date
Performed by	farazq			1872102609	
Checked by	AUTOMATICO			Page	Rev.
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Thermal protection ID	Application	Type	Quantity	Sensing Temperature
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Notes

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

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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