

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : W22 Cooling Tower - TEFC - NEMA Premium Efficiency - Derating Product code : 11972707

Frame : 213/5T	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 : 172 lb
Protection degree : IP55	Moment of inertia (J) : 1.51 sq.ft.lb
Design : B	

Output	10 HP (7.5 kW)		10 HP (7.5 kW)
Poles	4		4
Frequency	60 Hz		50 Hz
Rated voltage	230/460 V		380 V
Rated current	25.3/12.7 A		15.2 A
L. R. Amperes	162/81.1 A		90.9 A
LRC	6.4		6.0
No load current	11.6/5.80 A		5.60 A
Rated speed	1765 rpm		1450 rpm
Slip	1.94 %		3.33 %
Rated torque	29.4 ft.lb		35.7 ft.lb
Locked rotor torque	240 %		165 %
Pull up torque	180 %		135 %
Breakdown torque	295 %		220 %
Service factor	1.25		1.15
Temperature rise	80 K		80 K
Noise level ²	58.0 dB(A)		56.0 dB(A)
Locked rotor time (hot)	17 s		14 s
Locked rotor time (cold)	31 s		25 s
Efficiency (%)	50%	91.0	88.0
	75%	91.7	88.5
	100%	91.7	88.5
Power Factor	50%	0.65	0.72
	75%	0.76	0.81
	100%	0.81	0.85

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

Losses (%)	P1(0,9;1,0)	8.8	12.6
	P2(0,5;1,0)	7.3	10.5
	P3(0,25;1,0)	7.1	10.2
	P4(0,9;0,5)	4.6	6.6
	P5(0,5;0,5)	3.2	4.5
	P6(0,5;0,25)	2.2	3.2
	P7(0,25;0,25)	1.6	2.2

	Drive end	Non drive end	Foundation loads
Bearing type	6308-2RS	6207-2RS	Max. traction : 1791 N
Lubrication interval	-	-	Max. compression : 2556 N
Lubricant amount	-	-	Load type : -
Lubricant type	POLYUREA BASED GREASE		Load torque : -
			Load inertia (J=GD ² /4) : -

Notes
See notes on page 2.

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Efficiency - Derating

Space heater information
Voltage: 110-127/200-240 V
Output: 25-33/21-30 W

Notes
USABLE @208V 27.4A SF 1.15 SFA 31.5A

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 - T4
For use on PWM: Gr. A, B, C, D, F,
VT 1000:1, CT 20:1, 1.00SF - T3

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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