

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 : 11972738

Frame : 213T	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 : 154 lb
Protection degree : IP55	Moment of inertia (J) : 1.34 sq.ft.lb
Design : B	

Output	7.5 HP (5.5 kW)		7.5 HP (5.5 kW)
Poles	4		4
Frequency	60 Hz		50 Hz
Rated voltage	230/460 V		380 V
Rated current	18.4/9.18 A		11.0 A
L. R. Amperes	130/65.2 A		61.4 A
LRC	7.1		5.6
No load current	7.80/3.90 A		3.90 A
Rated speed	1765 rpm		1455 rpm
Slip	1.94 %		3.00 %
Rated torque	22.0 ft.lb		26.7 ft.lb
Locked rotor torque	220 %		180 %
Pull up torque	195 %		150 %
Breakdown torque	280 %		220 %
Service factor	1.25		1.25
Temperature rise	80 K		80 K
Noise level ²	58.0 dB(A)		56.0 dB(A)
Locked rotor time (hot)	20 s		15 s
Locked rotor time (cold)	36 s		27 s
Efficiency (%)	50%	89.5	89.5
	75%	91.0	89.5
	100%	91.7	89.6
Power Factor	50%	0.66	0.72
	75%	0.76	0.81
	100%	0.82	0.85

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

Losses (%)	P1(0,9;1,0)	10.2	10.3
	P2(0,5;1,0)	9.0	9.1
	P3(0,25;1,0)	8.4	8.6
	P4(0,9;0,5)	4.8	4.9
	P5(0,5;0,5)	3.6	3.6
	P6(0,5;0,25)	2.4	2.4
	P7(0,25;0,25)	1.7	1.8

	Drive end	Non drive end	Foundation loads
Bearing type	6308-2RS	6207-2RS	Max. traction : 1204 N
Lubrication interval	-	-	Max. compression : 1890 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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Product line : W22 Cooling Tower - TEFC - NEMA Premium Product code : 11972738
Efficiency - Derating

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

Notes
USABLE @208V 19.9A SF 1.15 SFA 22.9A

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	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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