

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																								
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Notes

See notes on page 2.

Rev.	Changes Summary		Rev.	Checked	Date
Performed by	farazq		1896227081		
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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	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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