

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11879196

Frame	: 504/5T	Locked rotor time	: 39s (cold) 22s (hot)
Output	: 200 HP (150 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 228 A	Protection degree	: IP55
L. R. Amperes	: 1436 A	Cooling method	: IC411 - TEFC
LRC	: 6.3x(Code G)	Mounting	: F-3
No load current	: 65.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1788 rpm	Noise level ²	: 75.0 dB(A)
Slip	: 0.67 %	Starting method	: Direct On Line
Rated torque	: 587 ft.lb	Approx. weight ³	: 2444 lb
Locked rotor torque	: 229 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 76.2 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	95.3	95.3	95.4	95.4	96.2	95.8	96.2	95.8	Max. traction	: 2336 lb
	95.3	95.3	95.4	95.4	95.8	95.8	95.8	95.8		
Power Factor	0.52	0.58	0.75	0.80	0.83	0.85	0.86	0.87	Max. compression	: 4781 lb
	0.54	0.52	0.77	0.75	0.84	0.83	0.86	0.86		

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

Losses (%)	P1 (0,9;1,0)	4.3	4.3	4.3	4.3
	P2 (0,5;1,0)	3.2	3.2	3.2	3.2
	P3 (0,25;1,0)	2.7	2.7	2.7	2.7
	P4 (0,9;0,5)	2.4	2.4	2.4	2.4
	P5 (0,5;0,5)	1.5	1.5	1.5	1.5
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	NU-319 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	5000 h	10000 h
Lubricant amount	:	45 g	34 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

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 changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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Date	28/03/2024			

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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