

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11922537

Frame	: 444/5TS	Locked rotor time	: 52s (cold) 29s (hot)
Output	: 125 HP	Temperature rise	: 80 K
Poles	: 2	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	: 134 A	Protection degree	: IP55
L. R. Amperes	: 884 A	Cooling method	: IC411 - TEFC
LRC	: 6.6x(Code G)	Mounting	: F-3
No load current	: 34.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3570 rpm	Noise level ²	: 81.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 184 ft.lb	Approx. weight ³	: 1663 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 33.5 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	93.0	92.7	93.6	93.2	94.5	94.3	95.0	94.7	Max. traction	: 582 lb
	92.7	92.2	93.2	92.8	94.3	94.3	94.7	94.8		
	93.9	93.9	94.0	94.0	94.5	94.5	94.5	94.5		
	93.4		94.0		94.5		95.0			
Power Factor	0.59	0.57	0.82	0.79	0.87	0.87	0.89	0.89	Max. compression	: 2245 lb
	0.54	0.51	0.77	0.75	0.87	0.85	0.89	0.89		
	0.64	0.62	0.85	0.84	0.88	0.88	0.89	0.89		
	0.59		0.82		0.87		0.89			

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

Losses (%)	P1 (0,9;1,0)								
	P2 (0,5;1,0)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	P3 (0,25;1,0)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	P4 (0,9;0,5)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	P5 (0,5;0,5)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	P6 (0,5;0,25)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	P7 (0,25;0,25)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	NU-314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	2000 h	4000 h
Lubricant amount	:	27 g	27 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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Customer :

Thermal protection

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

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