

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11356112

Catalog # : 12536ET3G444TS-W22

Frame : 444/5TS  
Output : 125 HP  
Poles : 2  
Frequency : 60 Hz  
Rated voltage : 460 V  
Rated current : 134 A  
L. R. Amperes : 884 A  
LRC : 6.6x(Code G)  
No load current : 34.0 A  
Rated speed : 3570 rpm  
Slip : 0.83 %  
Rated torque : 184 ft.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

Locked rotor time : 52s (cold) 29s (hot)  
Temperature rise : 80 K  
Duty cycle : Cont.(S1)  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Protection degree : IP55  
Cooling method : IC411 - TEFC  
Mounting : F-1  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 81.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 1629 lb

Output	25%		50%		75%		100%	
Efficiency (%)	93.0	92.7	93.6	93.2	94.5	94.3	95.0	94.7
	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
	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	

Foundation loads  
Max. traction : 599 lb  
Max. compression : 2228 lb

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

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

	Drive end	Non drive end
Bearing type :	6314 C3	6314 C3
Sealing :	WSeal	WSeal
Lubrication interval :	4000 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 1		
Checked by				
Date	28/03/2024			
		Revision		