

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14383370

Catalog # : 12536ET3H444TS-W22G

Frame : 444/5TS  
Output : 125 HP  
Poles : 2  
Frequency : 60 Hz  
Rated voltage : 575 V  
Rated current : 107 A  
L. R. Amperes : 708 A  
LRC : 6.6x(Code G)  
No load current : 27.2 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> : 1599 lb

Output 25% 50% 75% 100%

Efficiency (%) 93.0 93.6 94.5 95.0  
Power Factor 0.59 0.82 0.87 0.89

Foundation loads

Max. traction : 425 lb  
Max. compression : 2025 lb

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
4.8	3.0	2.5	3.1	1.4	1.1	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 Revision 1 / 1		
Checked by				
Date	28/03/2024			